

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## ENGLAND

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

ENGLAND		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>60,943,124</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>10,974,709</b>	18.0%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>4,318,717</b>	7.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>16,295,075</b>	26.7%
<b>Total Population (16-64)</b>	<b>39,780,134</b>	
People with one or more 'at risk' conditions (16-64)	<b>5,396,158</b>	13.6%
People with two or more 'at risk' conditions (16-64)	<b>1,471,652</b>	3.7%
<b>Total Population (65+)</b>	<b>10,487,551</b>	
People with one or more 'at risk' conditions (65+)	<b>5,167,185</b>	49.3%
People with two or more 'at risk' conditions (65+)	<b>2,773,111</b>	26.4%
People with no 'at risk' conditions (65+)	<b>5,320,366</b>	50.7%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## BATH AND NORTH EAST SOMERSET, SWINDON AND WILTSHIRE STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

BATH AND NORTH EAST SOMERSET, SWINDON AND WILTSHIRE STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>979,616</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>173,717</b>	17.7%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>67,990</b>	6.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>276,282</b>	28.2%
<b>Total Population (16-64)</b>	<b>618,035</b>	
People with one or more 'at risk' conditions (16-64)	<b>79,371</b>	12.8%
People with two or more 'at risk' conditions (16-64)	<b>20,682</b>	3.3%
<b>Total Population (65+)</b>	<b>191,864</b>	
People with one or more 'at risk' conditions (65+)	<b>89,299</b>	46.5%
People with two or more 'at risk' conditions (65+)	<b>46,396</b>	24.2%
People with no 'at risk' conditions (65+)	<b>102,565</b>	53.5%

### Notes

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**DRAFT**

BATH AND NORTH EAST SOMERSET, SWINDON AND WILTSHIRE STP

**DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021**  
**BEDFORDSHIRE, LUTON AND MILTON KEYNES STP**

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

BEDFORDSHIRE, LUTON AND MILTON KEYNES STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,054,074</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>191,439</b>	18.2%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>67,978</b>	6.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>269,543</b>	25.6%
<b>Total Population (16-64)</b>	<b>686,464</b>	
People with one or more 'at risk' conditions (16-64)	<b>99,129</b>	14.4%
People with two or more 'at risk' conditions (16-64)	<b>25,865</b>	3.8%
<b>Total Population (65+)</b>	<b>154,433</b>	
People with one or more 'at risk' conditions (65+)	<b>76,329</b>	49.4%
People with two or more 'at risk' conditions (65+)	<b>40,315</b>	26.1%
People with no 'at risk' conditions (65+)	<b>78,104</b>	50.6%

**Notes**

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**BEDFORDSHIRE, LUTON AND MILTON KEYNES STP**

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## BIRMINGHAM AND SOLIHULL STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

BIRMINGHAM AND SOLIHULL STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,318,264</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>255,027</b>	19.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>98,683</b>	7.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>342,816</b>	26.0%
<b>Total Population (16-64)</b>	<b>857,024</b>	
People with one or more 'at risk' conditions (16-64)	<b>141,570</b>	16.5%
People with two or more 'at risk' conditions (16-64)	<b>39,837</b>	4.6%
<b>Total Population (65+)</b>	<b>188,825</b>	
People with one or more 'at risk' conditions (65+)	<b>101,036</b>	53.5%
People with two or more 'at risk' conditions (65+)	<b>56,578</b>	30.0%
People with no 'at risk' conditions (65+)	<b>87,789</b>	46.5%

### Notes

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**BIRMINGHAM AND SOLIHULL STP**

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## BRISTOL, NORTH SOMERSET AND SOUTH GLOUCESTERSHIRE STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

BRISTOL, NORTH SOMERSET AND SOUTH GLOUCESTERSHIRE STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,063,648</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>176,639</b>	16.6%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>71,032</b>	6.7%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>258,082</b>	24.3%
<b>Total Population (16-64)</b>	<b>722,326</b>	
People with one or more 'at risk' conditions (16-64)	<b>87,983</b>	12.2%
People with two or more 'at risk' conditions (16-64)	<b>24,205</b>	3.4%
<b>Total Population (65+)</b>	<b>163,649</b>	
People with one or more 'at risk' conditions (65+)	<b>82,206</b>	50.2%
People with two or more 'at risk' conditions (65+)	<b>45,656</b>	27.9%
People with no 'at risk' conditions (65+)	<b>81,443</b>	49.8%

### Notes

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BRISTOL, NORTH SOMERSET AND SOUTH GLOUCESTERSHIRE STP

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## BUCKINGHAMSHIRE, OXFORDSHIRE AND BERKSHIRE WEST STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

BUCKINGHAMSHIRE, OXFORDSHIRE AND BERKSHIRE WEST STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,950,709</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>281,239</b>	14.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>104,557</b>	5.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>462,377</b>	23.7%
<b>Total Population (16-64)</b>	<b>1,284,926</b>	
People with one or more 'at risk' conditions (16-64)	<b>129,685</b>	10.1%
People with two or more 'at risk' conditions (16-64)	<b>31,715</b>	2.5%
<b>Total Population (65+)</b>	<b>322,187</b>	
People with one or more 'at risk' conditions (65+)	<b>141,049</b>	43.8%
People with two or more 'at risk' conditions (65+)	<b>70,837</b>	22.0%
People with no 'at risk' conditions (65+)	<b>181,138</b>	56.2%

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BUCKINGHAMSHIRE, OXFORDSHIRE AND BERKSHIRE WEST STP



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## CAMBRIDGESHIRE AND PETERBOROUGH STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

CAMBRIDGESHIRE AND PETERBOROUGH STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,019,502</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>166,168</b>	16.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>64,319</b>	6.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>250,899</b>	24.6%
<b>Total Population (16-64)</b>	<b>678,813</b>	
People with one or more 'at risk' conditions (16-64)	<b>80,606</b>	11.9%
People with two or more 'at risk' conditions (16-64)	<b>21,578</b>	3.2%
<b>Total Population (65+)</b>	<b>163,412</b>	
People with one or more 'at risk' conditions (65+)	<b>78,681</b>	48.1%
People with two or more 'at risk' conditions (65+)	<b>41,534</b>	25.4%
People with no 'at risk' conditions (65+)	<b>84,731</b>	51.9%

### Notes

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<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

CAMBRIDGESHIRE AND PETERBOROUGH STP

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## CHESHIRE AND MERSEYSIDE STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

CHESHIRE AND MERSEYSIDE STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>2,642,687</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>549,466</b>	20.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>233,076</b>	8.8%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>789,598</b>	29.9%
<b>Total Population (16-64)</b>	<b>1,691,985</b>	
People with one or more 'at risk' conditions (16-64)	<b>272,376</b>	16.1%
People with two or more 'at risk' conditions (16-64)	<b>82,751</b>	4.9%
<b>Total Population (65+)</b>	<b>499,189</b>	
People with one or more 'at risk' conditions (65+)	<b>259,057</b>	51.9%
People with two or more 'at risk' conditions (65+)	<b>147,305</b>	29.5%
People with no 'at risk' conditions (65+)	<b>240,132</b>	48.1%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021. <https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



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CHESHIRE AND MERSEYSIDE STP



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## CORNWALL AND THE ISLES OF SCILLY HEALTH & SOCIAL CARE PARTNERSHIP (STP)

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

CORNWALL AND THE ISLES OF SCILLY HEALTH & SOCIAL CARE PARTNERSHIP (STP)		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>587,235</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>131,329</b>	22.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>58,023</b>	9.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>204,781</b>	34.9%
<b>Total Population (16-64)</b>	<b>350,298</b>	
People with one or more 'at risk' conditions (16-64)	<b>55,576</b>	15.9%
People with two or more 'at risk' conditions (16-64)	<b>16,597</b>	4.7%
<b>Total Population (65+)</b>	<b>145,128</b>	
People with one or more 'at risk' conditions (65+)	<b>71,676</b>	49.4%
People with two or more 'at risk' conditions (65+)	<b>40,713</b>	28.1%
People with no 'at risk' conditions (65+)	<b>73,452</b>	50.6%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

CORNWALL AND THE ISLES OF SCILLY HEALTH & SOCIAL CARE PARTNERSHIP (STP)

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## COVENTRY AND WARWICKSHIRE STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

COVENTRY AND WARWICKSHIRE STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,046,168</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>176,450</b>	16.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>66,555</b>	6.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>264,869</b>	25.3%
<b>Total Population (16-64)</b>	<b>694,305</b>	
People with one or more 'at risk' conditions (16-64)	<b>86,288</b>	12.4%
People with two or more 'at risk' conditions (16-64)	<b>21,819</b>	3.1%
<b>Total Population (65+)</b>	<b>172,499</b>	
People with one or more 'at risk' conditions (65+)	<b>84,080</b>	48.7%
People with two or more 'at risk' conditions (65+)	<b>43,706</b>	25.3%
People with no 'at risk' conditions (65+)	<b>88,419</b>	51.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

COVENTRY AND WARWICKSHIRE STP

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## CUMBRIA AND NORTH EAST STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

CUMBRIA AND NORTH EAST STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>3,116,767</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>656,164</b>	21.1%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>272,286</b>	8.7%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>942,818</b>	30.2%
<b>Total Population (16-64)</b>	<b>1,996,359</b>	
People with one or more 'at risk' conditions (16-64)	<b>316,290</b>	15.8%
People with two or more 'at risk' conditions (16-64)	<b>91,500</b>	4.6%
<b>Total Population (65+)</b>	<b>606,001</b>	
People with one or more 'at risk' conditions (65+)	<b>319,347</b>	52.7%
People with two or more 'at risk' conditions (65+)	<b>177,080</b>	29.2%
People with no 'at risk' conditions (65+)	<b>286,654</b>	47.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

CUMBRIA AND NORTH EAST STP

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## DEVON STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

DEVON STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,253,923</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>245,684</b>	19.6%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>100,957</b>	8.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>405,023</b>	32.3%
<b>Total Population (16-64)</b>	<b>763,654</b>	
People with one or more 'at risk' conditions (16-64)	<b>101,851</b>	13.3%
People with two or more 'at risk' conditions (16-64)	<b>28,370</b>	3.7%
<b>Total Population (65+)</b>	<b>295,309</b>	
People with one or more 'at risk' conditions (65+)	<b>135,970</b>	46.0%
People with two or more 'at risk' conditions (65+)	<b>71,293</b>	24.1%
People with no 'at risk' conditions (65+)	<b>159,339</b>	54.0%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## DORSET STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

DORSET STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>810,866</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>161,654</b>	19.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>68,535</b>	8.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>264,906</b>	32.7%
<b>Total Population (16-64)</b>	<b>494,286</b>	
People with one or more 'at risk' conditions (16-64)	<b>64,891</b>	13.1%
People with two or more 'at risk' conditions (16-64)	<b>17,908</b>	3.6%
<b>Total Population (65+)</b>	<b>195,586</b>	
People with one or more 'at risk' conditions (65+)	<b>92,334</b>	47.2%
People with two or more 'at risk' conditions (65+)	<b>49,826</b>	25.5%
People with no 'at risk' conditions (65+)	<b>103,252</b>	52.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## EAST LONDON HEALTH & CARE PARTNERSHIP (STP)

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

EAST LONDON HEALTH & CARE PARTNERSHIP (STP)		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>2,364,810</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>346,789</b>	14.7%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>120,539</b>	5.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>447,607</b>	18.9%
<b>Total Population (16-64)</b>	<b>1,694,273</b>	
People with one or more 'at risk' conditions (16-64)	<b>213,857</b>	12.6%
People with two or more 'at risk' conditions (16-64)	<b>55,000</b>	3.2%
<b>Total Population (65+)</b>	<b>217,355</b>	
People with one or more 'at risk' conditions (65+)	<b>116,537</b>	53.6%
People with two or more 'at risk' conditions (65+)	<b>62,234</b>	28.6%
People with no 'at risk' conditions (65+)	<b>100,818</b>	46.4%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

**EAST LONDON HEALTH & CARE PARTNERSHIP (STP)**



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## FRIMLEY HEALTH & CARE (STP)

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

FRIMLEY HEALTH & CARE (STP)		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>815,574</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>133,610</b>	16.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>50,475</b>	6.2%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>198,070</b>	24.3%
<b>Total Population (16-64)</b>	<b>532,293</b>	
People with one or more 'at risk' conditions (16-64)	<b>66,953</b>	12.6%
People with two or more 'at risk' conditions (16-64)	<b>17,030</b>	3.2%
<b>Total Population (65+)</b>	<b>126,623</b>	
People with one or more 'at risk' conditions (65+)	<b>62,163</b>	49.1%
People with two or more 'at risk' conditions (65+)	<b>32,612</b>	25.8%
People with no 'at risk' conditions (65+)	<b>64,460</b>	50.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## GLOUCESTERSHIRE STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

GLOUCESTERSHIRE STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>667,069</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>132,132</b>	19.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>54,044</b>	8.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>205,336</b>	30.8%
<b>Total Population (16-64)</b>	<b>414,887</b>	
People with one or more 'at risk' conditions (16-64)	<b>61,775</b>	14.9%
People with two or more 'at risk' conditions (16-64)	<b>16,811</b>	4.1%
<b>Total Population (65+)</b>	<b>139,979</b>	
People with one or more 'at risk' conditions (65+)	<b>66,775</b>	47.7%
People with two or more 'at risk' conditions (65+)	<b>36,488</b>	26.1%
People with no 'at risk' conditions (65+)	<b>73,204</b>	52.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## GREATER MANCHESTER HEALTH & SOCIAL CARE PARTNERSHIP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

GREATER MANCHESTER HEALTH & SOCIAL CARE PARTNERSHIP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>3,103,533</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>572,339</b>	18.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>228,058</b>	7.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>789,822</b>	25.4%
<b>Total Population (16-64)</b>	<b>2,044,413</b>	
People with one or more 'at risk' conditions (16-64)	<b>306,922</b>	15.0%
People with two or more 'at risk' conditions (16-64)	<b>88,431</b>	4.3%
<b>Total Population (65+)</b>	<b>457,832</b>	
People with one or more 'at risk' conditions (65+)	<b>240,349</b>	52.5%
People with two or more 'at risk' conditions (65+)	<b>135,172</b>	29.5%
People with no 'at risk' conditions (65+)	<b>217,483</b>	47.5%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

GREATER MANCHESTER HEALTH & SOCIAL CARE PARTNERSHIP

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## HAMPSHIRE AND THE ISLE OF WIGHT STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

HAMPSHIRE AND THE ISLE OF WIGHT STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,903,527</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>350,005</b>	18.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>141,858</b>	7.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>550,591</b>	28.9%
<b>Total Population (16-64)</b>	<b>1,205,519</b>	
People with one or more 'at risk' conditions (16-64)	<b>160,115</b>	13.3%
People with two or more 'at risk' conditions (16-64)	<b>44,388</b>	3.7%
<b>Total Population (65+)</b>	<b>380,303</b>	
People with one or more 'at risk' conditions (65+)	<b>179,717</b>	47.3%
People with two or more 'at risk' conditions (65+)	<b>95,521</b>	25.1%
People with no 'at risk' conditions (65+)	<b>200,586</b>	52.7%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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**DRAFT**

**HAMPSHIRE AND THE ISLE OF WIGHT STP**

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## HEREFORDSHIRE AND WORCESTERSHIRE STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

HEREFORDSHIRE AND WORCESTERSHIRE STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>792,123</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>157,157</b>	19.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>62,965</b>	7.9%
People aged 65+ <b>or</b> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>253,155</b>	32.0%
<b>Total Population (16-64)</b>	<b>481,458</b>	
People with one or more 'at risk' conditions (16-64)	<b>68,459</b>	14.2%
People with two or more 'at risk' conditions (16-64)	<b>17,947</b>	3.7%
<b>Total Population (65+)</b>	<b>180,127</b>	
People with one or more 'at risk' conditions (65+)	<b>84,129</b>	46.7%
People with two or more 'at risk' conditions (65+)	<b>44,215</b>	24.5%
People with no 'at risk' conditions (65+)	<b>95,998</b>	53.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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**DRAFT**

HEREFORDSHIRE AND WORCESTERSHIRE STP

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## HERTFORDSHIRE AND WEST ESSEX STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

HERTFORDSHIRE AND WEST ESSEX STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,581,676</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>261,037</b>	16.5%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>101,453</b>	6.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>400,488</b>	25.3%
<b>Total Population (16-64)</b>	<b>1,016,161</b>	
People with one or more 'at risk' conditions (16-64)	<b>123,968</b>	12.2%
People with two or more 'at risk' conditions (16-64)	<b>32,221</b>	3.2%
<b>Total Population (65+)</b>	<b>266,344</b>	
People with one or more 'at risk' conditions (65+)	<b>126,893</b>	47.6%
People with two or more 'at risk' conditions (65+)	<b>67,195</b>	25.2%
People with no 'at risk' conditions (65+)	<b>139,451</b>	52.4%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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**DRAFT**

HERTFORDSHIRE AND WEST ESSEX STP



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## HUMBER, COAST AND VALE STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

HUMBER, COAST AND VALE STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,753,387</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>345,562</b>	19.7%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>138,743</b>	7.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>539,615</b>	30.8%
<b>Total Population (16-64)</b>	<b>1,094,511</b>	
People with one or more 'at risk' conditions (16-64)	<b>156,617</b>	14.3%
People with two or more 'at risk' conditions (16-64)	<b>43,135</b>	3.9%
<b>Total Population (65+)</b>	<b>373,378</b>	
People with one or more 'at risk' conditions (65+)	<b>179,325</b>	48.0%
People with two or more 'at risk' conditions (65+)	<b>93,882</b>	25.1%
People with no 'at risk' conditions (65+)	<b>194,053</b>	52.0%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## JOINED UP CARE DERBYSHIRE STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

JOINED UP CARE DERBYSHIRE STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,051,418</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>212,264</b>	20.2%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>85,160</b>	8.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>316,586</b>	30.1%
<b>Total Population (16-64)</b>	<b>665,419</b>	
People with one or more 'at risk' conditions (16-64)	<b>102,411</b>	15.4%
People with two or more 'at risk' conditions (16-64)	<b>28,103</b>	4.2%
<b>Total Population (65+)</b>	<b>208,274</b>	
People with one or more 'at risk' conditions (65+)	<b>103,952</b>	49.9%
People with two or more 'at risk' conditions (65+)	<b>55,891</b>	26.8%
People with no 'at risk' conditions (65+)	<b>104,322</b>	50.1%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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**DRAFT**

JOINED UP CARE DERBYSHIRE STP

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## KENT AND MEDWAY STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

KENT AND MEDWAY STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,931,154</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>356,174</b>	18.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>140,140</b>	7.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>549,493</b>	28.5%
<b>Total Population (16-64)</b>	<b>1,201,805</b>	
People with one or more 'at risk' conditions (16-64)	<b>164,799</b>	13.7%
People with two or more 'at risk' conditions (16-64)	<b>44,754</b>	3.7%
<b>Total Population (65+)</b>	<b>372,222</b>	
People with one or more 'at risk' conditions (65+)	<b>178,903</b>	48.1%
People with two or more 'at risk' conditions (65+)	<b>93,066</b>	25.0%
People with no 'at risk' conditions (65+)	<b>193,319</b>	51.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021. <https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## LANCASHIRE AND SOUTH CUMBRIA ICS

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

LANCASHIRE AND SOUTH CUMBRIA ICS		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,772,706</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>370,264</b>	20.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>156,203</b>	8.8%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>538,552</b>	30.4%
<b>Total Population (16-64)</b>	<b>1,117,508</b>	
People with one or more 'at risk' conditions (16-64)	<b>177,066</b>	15.8%
People with two or more 'at risk' conditions (16-64)	<b>52,815</b>	4.7%
<b>Total Population (65+)</b>	<b>347,545</b>	
People with one or more 'at risk' conditions (65+)	<b>179,257</b>	51.6%
People with two or more 'at risk' conditions (65+)	<b>101,003</b>	29.1%
People with no 'at risk' conditions (65+)	<b>168,288</b>	48.4%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

LANCASHIRE AND SOUTH CUMBRIA ICS

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## LEICESTER, LEICESTERSHIRE AND RUTLAND STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

LEICESTER, LEICESTERSHIRE AND RUTLAND STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,174,905</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>205,749</b>	17.5%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>78,406</b>	6.7%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>308,716</b>	26.3%
<b>Total Population (16-64)</b>	<b>769,257</b>	
People with one or more 'at risk' conditions (16-64)	<b>104,017</b>	13.5%
People with two or more 'at risk' conditions (16-64)	<b>26,952</b>	3.5%
<b>Total Population (65+)</b>	<b>198,587</b>	
People with one or more 'at risk' conditions (65+)	<b>95,620</b>	48.2%
People with two or more 'at risk' conditions (65+)	<b>50,073</b>	25.2%
People with no 'at risk' conditions (65+)	<b>102,967</b>	51.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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**DRAFT**

LEICESTER, LEICESTERSHIRE AND RUTLAND STP

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## LINCOLNSHIRE STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

LINCOLNSHIRE STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>787,911</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>162,456</b>	20.6%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>65,929</b>	8.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>255,531</b>	32.4%
<b>Total Population (16-64)</b>	<b>478,726</b>	
People with one or more 'at risk' conditions (16-64)	<b>71,334</b>	14.9%
People with two or more 'at risk' conditions (16-64)	<b>19,741</b>	4.1%
<b>Total Population (65+)</b>	<b>179,714</b>	
People with one or more 'at risk' conditions (65+)	<b>86,639</b>	48.2%
People with two or more 'at risk' conditions (65+)	<b>45,341</b>	25.2%
People with no 'at risk' conditions (65+)	<b>93,075</b>	51.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## MID AND SOUTH ESSEX STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

MID AND SOUTH ESSEX STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,223,825</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>218,404</b>	17.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>85,281</b>	7.0%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>342,586</b>	28.0%
<b>Total Population (16-64)</b>	<b>763,193</b>	
People with one or more 'at risk' conditions (16-64)	<b>100,456</b>	13.2%
People with two or more 'at risk' conditions (16-64)	<b>26,419</b>	3.5%
<b>Total Population (65+)</b>	<b>234,843</b>	
People with one or more 'at risk' conditions (65+)	<b>110,661</b>	47.1%
People with two or more 'at risk' conditions (65+)	<b>57,357</b>	24.4%
People with no 'at risk' conditions (65+)	<b>124,182</b>	52.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NORFOLK AND WAVENEY HEALTH & CARE PARTNERSHIP (STP)

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NORFOLK AND WAVENEY HEALTH & CARE PARTNERSHIP (STP)		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,049,788</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>209,259</b>	19.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>82,453</b>	7.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>342,473</b>	32.6%
<b>Total Population (16-64)</b>	<b>634,975</b>	
People with one or more 'at risk' conditions (16-64)	<b>87,170</b>	13.7%
People with two or more 'at risk' conditions (16-64)	<b>23,220</b>	3.7%
<b>Total Population (65+)</b>	<b>249,024</b>	
People with one or more 'at risk' conditions (65+)	<b>115,810</b>	46.5%
People with two or more 'at risk' conditions (65+)	<b>58,186</b>	23.4%
People with no 'at risk' conditions (65+)	<b>133,214</b>	53.5%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

NORFOLK AND WAVENEY HEALTH & CARE PARTNERSHIP (STP)

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NORTH LONDON PARTNERS IN HEALTH & CARE (STP)

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NORTH LONDON PARTNERS IN HEALTH & CARE (STP)		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,787,147</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>236,415</b>	13.2%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>83,926</b>	4.7%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>335,669</b>	18.8%
<b>Total Population (16-64)</b>	<b>1,302,565</b>	
People with one or more 'at risk' conditions (16-64)	<b>127,570</b>	9.8%
People with two or more 'at risk' conditions (16-64)	<b>32,031</b>	2.5%
<b>Total Population (65+)</b>	<b>193,453</b>	
People with one or more 'at risk' conditions (65+)	<b>94,199</b>	48.7%
People with two or more 'at risk' conditions (65+)	<b>49,538</b>	25.6%
People with no 'at risk' conditions (65+)	<b>99,254</b>	51.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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**DRAFT**

NORTH LONDON PARTNERS IN HEALTH & CARE (STP)

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NORTH WEST LONDON HEALTH & CARE PARTNERSHIP (STP)

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NORTH WEST LONDON HEALTH & CARE PARTNERSHIP (STP)		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>2,791,679</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>389,890</b>	14.0%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>137,175</b>	4.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>539,672</b>	19.3%
<b>Total Population (16-64)</b>	<b>2,048,398</b>	
People with one or more 'at risk' conditions (16-64)	<b>218,448</b>	10.7%
People with two or more 'at risk' conditions (16-64)	<b>54,542</b>	2.7%
<b>Total Population (65+)</b>	<b>299,905</b>	
People with one or more 'at risk' conditions (65+)	<b>150,123</b>	50.1%
People with two or more 'at risk' conditions (65+)	<b>79,423</b>	26.5%
People with no 'at risk' conditions (65+)	<b>149,782</b>	49.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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**DRAFT**

**NORTH WEST LONDON HEALTH & CARE PARTNERSHIP (STP)**

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NORTHAMPTONSHIRE STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NORTHAMPTONSHIRE STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>782,413</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>143,112</b>	18.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>56,496</b>	7.2%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>209,549</b>	26.8%
<b>Total Population (16-64)</b>	<b>502,266</b>	
People with one or more 'at risk' conditions (16-64)	<b>72,274</b>	14.4%
People with two or more 'at risk' conditions (16-64)	<b>20,007</b>	4.0%
<b>Total Population (65+)</b>	<b>131,988</b>	
People with one or more 'at risk' conditions (65+)	<b>65,551</b>	49.7%
People with two or more 'at risk' conditions (65+)	<b>35,539</b>	26.9%
People with no 'at risk' conditions (65+)	<b>66,437</b>	50.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NOTTINGHAM AND NOTTINGHAMSHIRE HEALTH AND CARE STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NOTTINGHAM AND NOTTINGHAMSHIRE HEALTH AND CARE STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,116,179</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>212,312</b>	19.0%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>87,764</b>	7.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>300,809</b>	26.9%
<b>Total Population (16-64)</b>	<b>740,891</b>	
People with one or more 'at risk' conditions (16-64)	<b>109,353</b>	14.8%
People with two or more 'at risk' conditions (16-64)	<b>32,228</b>	4.3%
<b>Total Population (65+)</b>	<b>184,734</b>	
People with one or more 'at risk' conditions (65+)	<b>96,237</b>	52.1%
People with two or more 'at risk' conditions (65+)	<b>54,143</b>	29.3%
People with no 'at risk' conditions (65+)	<b>88,497</b>	47.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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**DRAFT**

NOTTINGHAM AND NOTTINGHAMSHIRE HEALTH AND CARE STP



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## OUR HEALTHIER SOUTH EAST LONDON STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

OUR HEALTHIER SOUTH EAST LONDON STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>2,070,047</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>311,885</b>	15.1%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>111,692</b>	5.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>428,395</b>	20.7%
<b>Total Population (16-64)</b>	<b>1,480,720</b>	
People with one or more 'at risk' conditions (16-64)	<b>182,406</b>	12.3%
People with two or more 'at risk' conditions (16-64)	<b>47,835</b>	3.2%
<b>Total Population (65+)</b>	<b>232,422</b>	
People with one or more 'at risk' conditions (65+)	<b>115,912</b>	49.9%
People with two or more 'at risk' conditions (65+)	<b>61,273</b>	26.4%
People with no 'at risk' conditions (65+)	<b>116,510</b>	50.1%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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**DRAFT**

OUR HEALTHIER SOUTH EAST LONDON STP

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## SHROPSHIRE AND TELFORD AND WREKIN STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

SHROPSHIRE AND TELFORD AND WREKIN STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>508,264</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>105,960</b>	20.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>43,317</b>	8.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>161,743</b>	31.8%
<b>Total Population (16-64)</b>	<b>312,555</b>	
People with one or more 'at risk' conditions (16-64)	<b>48,042</b>	15.4%
People with two or more 'at risk' conditions (16-64)	<b>13,389</b>	4.3%
<b>Total Population (65+)</b>	<b>110,196</b>	
People with one or more 'at risk' conditions (65+)	<b>54,413</b>	49.4%
People with two or more 'at risk' conditions (65+)	<b>29,286</b>	26.6%
People with no 'at risk' conditions (65+)	<b>55,783</b>	50.6%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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**DRAFT**

SHROPSHIRE AND TELFORD AND WREKIN STP

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## SOMERSET STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

SOMERSET STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>581,341</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>118,075</b>	20.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>48,302</b>	8.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>191,615</b>	33.0%
<b>Total Population (16-64)</b>	<b>346,763</b>	
People with one or more 'at risk' conditions (16-64)	<b>48,742</b>	14.1%
People with two or more 'at risk' conditions (16-64)	<b>13,372</b>	3.9%
<b>Total Population (65+)</b>	<b>139,787</b>	
People with one or more 'at risk' conditions (65+)	<b>66,247</b>	47.4%
People with two or more 'at risk' conditions (65+)	<b>34,339</b>	24.6%
People with no 'at risk' conditions (65+)	<b>73,540</b>	52.6%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## SOUTH WEST LONDON HEALTH & CARE PARTNERSHIP (STP)

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

SOUTH WEST LONDON HEALTH & CARE PARTNERSHIP (STP)		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,748,851</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>232,966</b>	13.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>84,976</b>	4.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>347,463</b>	19.9%
<b>Total Population (16-64)</b>	<b>1,220,343</b>	
People with one or more 'at risk' conditions (16-64)	<b>123,022</b>	10.1%
People with two or more 'at risk' conditions (16-64)	<b>31,077</b>	2.5%
<b>Total Population (65+)</b>	<b>214,189</b>	
People with one or more 'at risk' conditions (65+)	<b>99,692</b>	46.5%
People with two or more 'at risk' conditions (65+)	<b>51,906</b>	24.2%
People with no 'at risk' conditions (65+)	<b>114,497</b>	53.5%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

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**DRAFT**

**SOUTH WEST LONDON HEALTH & CARE PARTNERSHIP (STP)**

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## SOUTH YORKSHIRE AND BASSETLAW STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

SOUTH YORKSHIRE AND BASSETLAW STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,587,565</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>319,869</b>	20.1%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>129,141</b>	8.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>449,453</b>	28.3%
<b>Total Population (16-64)</b>	<b>1,037,289</b>	
People with one or more 'at risk' conditions (16-64)	<b>160,930</b>	15.5%
People with two or more 'at risk' conditions (16-64)	<b>46,236</b>	4.5%
<b>Total Population (65+)</b>	<b>274,345</b>	
People with one or more 'at risk' conditions (65+)	<b>144,761</b>	52.8%
People with two or more 'at risk' conditions (65+)	<b>80,474</b>	29.3%
People with no 'at risk' conditions (65+)	<b>129,584</b>	47.2%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

**SOUTH YORKSHIRE AND BASSETLAW STP**

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## STAFFORDSHIRE & STOKE ON TRENT STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

STAFFORDSHIRE & STOKE ON TRENT STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,129,418</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>234,457</b>	20.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>91,547</b>	8.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>347,522</b>	30.8%
<b>Total Population (16-64)</b>	<b>703,493</b>	
People with one or more 'at risk' conditions (16-64)	<b>112,410</b>	16.0%
People with two or more 'at risk' conditions (16-64)	<b>29,826</b>	4.2%
<b>Total Population (65+)</b>	<b>227,288</b>	
People with one or more 'at risk' conditions (65+)	<b>114,223</b>	50.3%
People with two or more 'at risk' conditions (65+)	<b>60,301</b>	26.5%
People with no 'at risk' conditions (65+)	<b>113,065</b>	49.7%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

STAFFORDSHIRE & STOKE ON TRENT STP



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## SUFFOLK AND NORTH EAST ESSEX ICS

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

SUFFOLK AND NORTH EAST ESSEX ICS		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,020,852</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>202,582</b>	19.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>82,513</b>	8.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>321,395</b>	31.5%
<b>Total Population (16-64)</b>	<b>622,791</b>	
People with one or more 'at risk' conditions (16-64)	<b>88,234</b>	14.2%
People with two or more 'at risk' conditions (16-64)	<b>24,064</b>	3.9%
<b>Total Population (65+)</b>	<b>226,313</b>	
People with one or more 'at risk' conditions (65+)	<b>107,500</b>	47.5%
People with two or more 'at risk' conditions (65+)	<b>57,194</b>	25.3%
People with no 'at risk' conditions (65+)	<b>118,813</b>	52.5%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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**DRAFT**

SUFFOLK AND NORTH EAST ESSEX ICS

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## SURREY HEARTLANDS HEALTH & CARE PARTNERSHIP (STP)

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

SURREY HEARTLANDS HEALTH & CARE PARTNERSHIP (STP)		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,126,307</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>174,630</b>	15.5%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>68,291</b>	6.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>286,793</b>	25.5%
<b>Total Population (16-64)</b>	<b>719,060</b>	
People with one or more 'at risk' conditions (16-64)	<b>76,455</b>	10.6%
People with two or more 'at risk' conditions (16-64)	<b>19,027</b>	2.6%
<b>Total Population (65+)</b>	<b>204,234</b>	
People with one or more 'at risk' conditions (65+)	<b>92,071</b>	45.1%
People with two or more 'at risk' conditions (65+)	<b>48,108</b>	23.6%
People with no 'at risk' conditions (65+)	<b>112,163</b>	54.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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**DRAFT**

**SURREY HEARTLANDS HEALTH & CARE PARTNERSHIP (STP)**

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## SUSSEX HEALTH AND CARE PARTNERSHIP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

SUSSEX HEALTH AND CARE PARTNERSHIP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,804,528</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>332,337</b>	18.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>134,379</b>	7.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>536,106</b>	29.7%
<b>Total Population (16-64)</b>	<b>1,132,940</b>	
People with one or more 'at risk' conditions (16-64)	<b>142,203</b>	12.6%
People with two or more 'at risk' conditions (16-64)	<b>38,109</b>	3.4%
<b>Total Population (65+)</b>	<b>384,704</b>	
People with one or more 'at risk' conditions (65+)	<b>180,935</b>	47.0%
People with two or more 'at risk' conditions (65+)	<b>94,583</b>	24.6%
People with no 'at risk' conditions (65+)	<b>203,769</b>	53.0%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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SUSSEX HEALTH AND CARE PARTNERSHIP

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## THE BLACK COUNTRY AND WEST BIRMINGHAM STP

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

THE BLACK COUNTRY AND WEST BIRMINGHAM STP		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,462,364</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>286,385</b>	19.6%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>109,218</b>	7.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>390,996</b>	26.7%
<b>Total Population (16-64)</b>	<b>945,203</b>	
People with one or more 'at risk' conditions (16-64)	<b>153,535</b>	16.2%
People with two or more 'at risk' conditions (16-64)	<b>41,928</b>	4.4%
<b>Total Population (65+)</b>	<b>224,823</b>	
People with one or more 'at risk' conditions (65+)	<b>120,212</b>	53.5%
People with two or more 'at risk' conditions (65+)	<b>65,012</b>	28.9%
People with no 'at risk' conditions (65+)	<b>104,611</b>	46.5%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

THE BLACK COUNTRY AND WEST BIRMINGHAM STP

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## WEST YORKSHIRE AND HARROGATE HEALTH & CARE PARTNERSHIP (STP)

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

WEST YORKSHIRE AND HARROGATE HEALTH & CARE PARTNERSHIP (STP)		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>2,609,304</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>475,657</b>	18.2%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>184,282</b>	7.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>677,280</b>	26.0%
<b>Total Population (16-64)</b>	<b>1,711,984</b>	
People with one or more 'at risk' conditions (16-64)	<b>250,999</b>	14.7%
People with two or more 'at risk' conditions (16-64)	<b>68,187</b>	4.0%
<b>Total Population (65+)</b>	<b>408,938</b>	
People with one or more 'at risk' conditions (65+)	<b>207,315</b>	50.7%
People with two or more 'at risk' conditions (65+)	<b>112,517</b>	27.5%
People with no 'at risk' conditions (65+)	<b>201,623</b>	49.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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**DRAFT**

WEST YORKSHIRE AND HARROGATE HEALTH & CARE PARTNERSHIP (STP)

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS BARNSELEY CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS BARNSELEY CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>259,958</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>56,951</b>	21.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>24,116</b>	9.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>78,525</b>	30.2%
<b>Total Population (16-64)</b>	<b>166,148</b>	
People with one or more 'at risk' conditions (16-64)	<b>28,994</b>	17.5%
People with two or more 'at risk' conditions (16-64)	<b>8,973</b>	5.4%
<b>Total Population (65+)</b>	<b>47,453</b>	
People with one or more 'at risk' conditions (65+)	<b>25,879</b>	54.5%
People with two or more 'at risk' conditions (65+)	<b>14,757</b>	31.1%
People with no 'at risk' conditions (65+)	<b>21,574</b>	45.5%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS BASILDON AND BRENTWOOD CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS BASILDON AND BRENTWOOD CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>278,533</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>48,196</b>	17.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>18,803</b>	6.8%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>74,525</b>	26.8%
<b>Total Population (16-64)</b>	<b>174,960</b>	
People with one or more 'at risk' conditions (16-64)	<b>22,871</b>	13.1%
People with two or more 'at risk' conditions (16-64)	<b>6,053</b>	3.5%
<b>Total Population (65+)</b>	<b>49,912</b>	
People with one or more 'at risk' conditions (65+)	<b>23,583</b>	47.2%
People with two or more 'at risk' conditions (65+)	<b>12,365</b>	24.8%
People with no 'at risk' conditions (65+)	<b>26,329</b>	52.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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**DRAFT**

NHS BASILDON AND BRENTWOOD CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS BASSETLAW CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS BASSETLAW CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>117,953</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>25,335</b>	21.5%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>10,141</b>	8.6%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>37,924</b>	32.2%
<b>Total Population (16-64)</b>	<b>72,822</b>	
People with one or more 'at risk' conditions (16-64)	<b>11,546</b>	15.9%
People with two or more 'at risk' conditions (16-64)	<b>3,180</b>	4.4%
<b>Total Population (65+)</b>	<b>25,449</b>	
People with one or more 'at risk' conditions (65+)	<b>12,860</b>	50.5%
People with two or more 'at risk' conditions (65+)	<b>6,815</b>	26.8%
People with no 'at risk' conditions (65+)	<b>12,589</b>	49.5%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS BATH AND NORTH EAST SOMERSET, SWINDON AND WILTSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS BATH AND NORTH EAST SOMERSET, SWINDON AND WILTSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>979,616</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>173,717</b>	17.7%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>67,990</b>	6.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>276,282</b>	28.2%
<b>Total Population (16-64)</b>	<b>618,035</b>	
People with one or more 'at risk' conditions (16-64)	<b>79,371</b>	12.8%
People with two or more 'at risk' conditions (16-64)	<b>20,682</b>	3.3%
<b>Total Population (65+)</b>	<b>191,864</b>	
People with one or more 'at risk' conditions (65+)	<b>89,299</b>	46.5%
People with two or more 'at risk' conditions (65+)	<b>46,396</b>	24.2%
People with no 'at risk' conditions (65+)	<b>102,565</b>	53.5%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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**DRAFT**

NHS BATH AND NORTH EAST SOMERSET, SWINDON AND WILTSHIRE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS BEDFORDSHIRE, LUTON AND MILTON KEYNES CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS BEDFORDSHIRE, LUTON AND MILTON KEYNES CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,054,074</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>191,439</b>	18.2%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>67,978</b>	6.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>269,543</b>	25.6%
<b>Total Population (16-64)</b>	<b>686,464</b>	
People with one or more 'at risk' conditions (16-64)	<b>99,129</b>	14.4%
People with two or more 'at risk' conditions (16-64)	<b>25,865</b>	3.8%
<b>Total Population (65+)</b>	<b>154,433</b>	
People with one or more 'at risk' conditions (65+)	<b>76,329</b>	49.4%
People with two or more 'at risk' conditions (65+)	<b>40,315</b>	26.1%
People with no 'at risk' conditions (65+)	<b>78,104</b>	50.6%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021. <https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

NHS BEDFORDSHIRE, LUTON AND MILTON KEYNES CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS BERKSHIRE WEST CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS BERKSHIRE WEST CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>568,117</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>75,672</b>	13.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>26,786</b>	4.7%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>124,449</b>	21.9%
<b>Total Population (16-64)</b>	<b>377,837</b>	
People with one or more 'at risk' conditions (16-64)	<b>35,783</b>	9.5%
People with two or more 'at risk' conditions (16-64)	<b>8,420</b>	2.2%
<b>Total Population (65+)</b>	<b>85,731</b>	
People with one or more 'at risk' conditions (65+)	<b>36,954</b>	43.1%
People with two or more 'at risk' conditions (65+)	<b>17,802</b>	20.8%
People with no 'at risk' conditions (65+)	<b>48,777</b>	56.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS BIRMINGHAM AND SOLIHULL CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS BIRMINGHAM AND SOLIHULL CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,318,264</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>255,027</b>	19.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>98,683</b>	7.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>342,816</b>	26.0%
<b>Total Population (16-64)</b>	<b>857,024</b>	
People with one or more 'at risk' conditions (16-64)	<b>141,570</b>	16.5%
People with two or more 'at risk' conditions (16-64)	<b>39,837</b>	4.6%
<b>Total Population (65+)</b>	<b>188,825</b>	
People with one or more 'at risk' conditions (65+)	<b>101,036</b>	53.5%
People with two or more 'at risk' conditions (65+)	<b>56,578</b>	30.0%
People with no 'at risk' conditions (65+)	<b>87,789</b>	46.5%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS BIRMINGHAM AND SOLIHULL CCG



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS BLACK COUNTRY AND WEST BIRMINGHAM CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS BLACK COUNTRY AND WEST BIRMINGHAM CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,462,364</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>286,385</b>	19.6%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>109,218</b>	7.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>390,996</b>	26.7%
<b>Total Population (16-64)</b>	<b>945,203</b>	
People with one or more 'at risk' conditions (16-64)	<b>153,535</b>	16.2%
People with two or more 'at risk' conditions (16-64)	<b>41,928</b>	4.4%
<b>Total Population (65+)</b>	<b>224,823</b>	
People with one or more 'at risk' conditions (65+)	<b>120,212</b>	53.5%
People with two or more 'at risk' conditions (65+)	<b>65,012</b>	28.9%
People with no 'at risk' conditions (65+)	<b>104,611</b>	46.5%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021. <https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

NHS BLACK COUNTRY AND WEST BIRMINGHAM CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS BLACKBURN WITH DARWEN CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS BLACKBURN WITH DARWEN CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>175,956</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>37,116</b>	21.1%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>14,747</b>	8.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>48,343</b>	27.5%
<b>Total Population (16-64)</b>	<b>113,352</b>	
People with one or more 'at risk' conditions (16-64)	<b>20,737</b>	18.3%
People with two or more 'at risk' conditions (16-64)	<b>6,102</b>	5.4%
<b>Total Population (65+)</b>	<b>25,493</b>	
People with one or more 'at risk' conditions (65+)	<b>14,266</b>	56.0%
People with two or more 'at risk' conditions (65+)	<b>8,288</b>	32.5%
People with no 'at risk' conditions (65+)	<b>11,227</b>	44.0%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS BLACKBURN WITH DARWEN CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS BLACKPOOL CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS BLACKPOOL CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>171,289</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>40,929</b>	23.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>17,952</b>	10.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>57,178</b>	33.4%
<b>Total Population (16-64)</b>	<b>108,158</b>	
People with one or more 'at risk' conditions (16-64)	<b>21,248</b>	19.6%
People with two or more 'at risk' conditions (16-64)	<b>6,962</b>	6.4%
<b>Total Population (65+)</b>	<b>34,664</b>	
People with one or more 'at risk' conditions (65+)	<b>18,415</b>	53.1%
People with two or more 'at risk' conditions (65+)	<b>10,743</b>	31.0%
People with no 'at risk' conditions (65+)	<b>16,249</b>	46.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS BOLTON CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS BOLTON CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>308,406</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>56,372</b>	18.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>22,072</b>	7.2%
People aged 65+ <b>or</b> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>80,485</b>	26.1%
<b>Total Population (16-64)</b>	<b>195,079</b>	
People with one or more 'at risk' conditions (16-64)	<b>28,519</b>	14.6%
People with two or more 'at risk' conditions (16-64)	<b>7,980</b>	4.1%
<b>Total Population (65+)</b>	<b>49,157</b>	
People with one or more 'at risk' conditions (65+)	<b>25,044</b>	50.9%
People with two or more 'at risk' conditions (65+)	<b>13,571</b>	27.6%
People with no 'at risk' conditions (65+)	<b>24,113</b>	49.1%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS BRADFORD DISTRICT AND CRAVEN CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS BRADFORD DISTRICT AND CRAVEN CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>645,816</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>123,270</b>	19.1%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>47,908</b>	7.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>169,889</b>	26.3%
<b>Total Population (16-64)</b>	<b>412,249</b>	
People with one or more 'at risk' conditions (16-64)	<b>66,847</b>	16.2%
People with two or more 'at risk' conditions (16-64)	<b>18,942</b>	4.6%
<b>Total Population (65+)</b>	<b>97,668</b>	
People with one or more 'at risk' conditions (65+)	<b>51,049</b>	52.3%
People with two or more 'at risk' conditions (65+)	<b>27,759</b>	28.4%
People with no 'at risk' conditions (65+)	<b>46,619</b>	47.7%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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**DRAFT**

NHS BRADFORD DISTRICT AND CRAVEN CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS BRIGHTON AND HOVE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS BRIGHTON AND HOVE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>338,000</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>41,458</b>	12.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>14,907</b>	4.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>65,363</b>	19.3%
<b>Total Population (16-64)</b>	<b>250,729</b>	
People with one or more 'at risk' conditions (16-64)	<b>21,787</b>	8.7%
People with two or more 'at risk' conditions (16-64)	<b>5,341</b>	2.1%
<b>Total Population (65+)</b>	<b>42,240</b>	
People with one or more 'at risk' conditions (65+)	<b>18,335</b>	43.4%
People with two or more 'at risk' conditions (65+)	<b>9,332</b>	22.1%
People with no 'at risk' conditions (65+)	<b>23,905</b>	56.6%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

NHS BRIGHTON AND HOVE CCG



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS BRISTOL, NORTH SOMERSET AND SOUTH GLOUCESTERSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS BRISTOL, NORTH SOMERSET AND SOUTH GLOUCESTERSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,063,648</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>176,639</b>	16.6%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>71,032</b>	6.7%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>258,082</b>	24.3%
<b>Total Population (16-64)</b>	<b>722,326</b>	
People with one or more 'at risk' conditions (16-64)	<b>87,983</b>	12.2%
People with two or more 'at risk' conditions (16-64)	<b>24,205</b>	3.4%
<b>Total Population (65+)</b>	<b>163,649</b>	
People with one or more 'at risk' conditions (65+)	<b>82,206</b>	50.2%
People with two or more 'at risk' conditions (65+)	<b>45,656</b>	27.9%
People with no 'at risk' conditions (65+)	<b>81,443</b>	49.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS BRISTOL, NORTH SOMERSET AND SOUTH GLOUCESTERSHIRE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS BUCKINGHAMSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS BUCKINGHAMSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>570,635</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>91,335</b>	16.0%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>34,494</b>	6.0%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>149,856</b>	26.3%
<b>Total Population (16-64)</b>	<b>357,912</b>	
People with one or more 'at risk' conditions (16-64)	<b>41,854</b>	11.7%
People with two or more 'at risk' conditions (16-64)	<b>10,409</b>	2.9%
<b>Total Population (65+)</b>	<b>104,613</b>	
People with one or more 'at risk' conditions (65+)	<b>46,092</b>	44.1%
People with two or more 'at risk' conditions (65+)	<b>23,390</b>	22.4%
People with no 'at risk' conditions (65+)	<b>58,521</b>	55.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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**DRAFT**

NHS BUCKINGHAMSHIRE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS BURY CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS BURY CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>201,376</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>37,700</b>	18.7%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>14,719</b>	7.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>55,071</b>	27.3%
<b>Total Population (16-64)</b>	<b>127,683</b>	
People with one or more 'at risk' conditions (16-64)	<b>18,781</b>	14.7%
People with two or more 'at risk' conditions (16-64)	<b>5,153</b>	4.0%
<b>Total Population (65+)</b>	<b>34,617</b>	
People with one or more 'at risk' conditions (65+)	<b>17,246</b>	49.8%
People with two or more 'at risk' conditions (65+)	<b>9,277</b>	26.8%
People with no 'at risk' conditions (65+)	<b>17,371</b>	50.2%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS CALDERDALE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS CALDERDALE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>220,587</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>42,745</b>	19.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>16,623</b>	7.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>63,255</b>	28.7%
<b>Total Population (16-64)</b>	<b>140,348</b>	
People with one or more 'at risk' conditions (16-64)	<b>22,021</b>	15.7%
People with two or more 'at risk' conditions (16-64)	<b>6,057</b>	4.3%
<b>Total Population (65+)</b>	<b>39,763</b>	
People with one or more 'at risk' conditions (65+)	<b>19,253</b>	48.4%
People with two or more 'at risk' conditions (65+)	<b>10,258</b>	25.8%
People with no 'at risk' conditions (65+)	<b>20,510</b>	51.6%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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**DRAFT**

NHS CALDERDALE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS CAMBRIDGESHIRE AND PETERBOROUGH CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS CAMBRIDGESHIRE AND PETERBOROUGH CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,019,502</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>166,168</b>	16.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>64,319</b>	6.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>250,899</b>	24.6%
<b>Total Population (16-64)</b>	<b>678,813</b>	
People with one or more 'at risk' conditions (16-64)	<b>80,606</b>	11.9%
People with two or more 'at risk' conditions (16-64)	<b>21,578</b>	3.2%
<b>Total Population (65+)</b>	<b>163,412</b>	
People with one or more 'at risk' conditions (65+)	<b>78,681</b>	48.1%
People with two or more 'at risk' conditions (65+)	<b>41,534</b>	25.4%
People with no 'at risk' conditions (65+)	<b>84,731</b>	51.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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**DRAFT**

NHS CAMBRIDGESHIRE AND PETERBOROUGH CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS CANNOCK CHASE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS CANNOCK CHASE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>128,265</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>28,068</b>	21.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>11,371</b>	8.9%
People aged 65+ <b>or</b> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>40,438</b>	31.5%
<b>Total Population (16-64)</b>	<b>79,610</b>	
People with one or more 'at risk' conditions (16-64)	<b>13,572</b>	17.0%
People with two or more 'at risk' conditions (16-64)	<b>3,658</b>	4.6%
<b>Total Population (65+)</b>	<b>25,987</b>	
People with one or more 'at risk' conditions (65+)	<b>13,617</b>	52.4%
People with two or more 'at risk' conditions (65+)	<b>7,538</b>	29.0%
People with no 'at risk' conditions (65+)	<b>12,370</b>	47.6%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS CASTLE POINT AND ROCHFORD CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS CASTLE POINT AND ROCHFORD CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>180,670</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>35,960</b>	19.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>14,628</b>	8.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>58,899</b>	32.6%
<b>Total Population (16-64)</b>	<b>107,625</b>	
People with one or more 'at risk' conditions (16-64)	<b>14,243</b>	13.2%
People with two or more 'at risk' conditions (16-64)	<b>3,713</b>	3.4%
<b>Total Population (65+)</b>	<b>43,698</b>	
People with one or more 'at risk' conditions (65+)	<b>20,759</b>	47.5%
People with two or more 'at risk' conditions (65+)	<b>10,703</b>	24.5%
People with no 'at risk' conditions (65+)	<b>22,939</b>	52.5%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

NHS CASTLE POINT AND ROCHFORD CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS CHESHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS CHESHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>778,368</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>151,313</b>	19.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>61,972</b>	8.0%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>237,343</b>	30.5%
<b>Total Population (16-64)</b>	<b>483,505</b>	
People with one or more 'at risk' conditions (16-64)	<b>68,379</b>	14.1%
People with two or more 'at risk' conditions (16-64)	<b>18,668</b>	3.9%
<b>Total Population (65+)</b>	<b>164,327</b>	
People with one or more 'at risk' conditions (65+)	<b>78,297</b>	47.6%
People with two or more 'at risk' conditions (65+)	<b>42,492</b>	25.9%
People with no 'at risk' conditions (65+)	<b>86,030</b>	52.4%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS CHORLEY AND SOUTH RIBBLE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS CHORLEY AND SOUTH RIBBLE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>182,286</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>36,574</b>	20.1%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>15,687</b>	8.6%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>54,570</b>	29.9%
<b>Total Population (16-64)</b>	<b>112,909</b>	
People with one or more 'at risk' conditions (16-64)	<b>16,438</b>	14.6%
People with two or more 'at risk' conditions (16-64)	<b>4,795</b>	4.2%
<b>Total Population (65+)</b>	<b>36,918</b>	
People with one or more 'at risk' conditions (65+)	<b>18,922</b>	51.3%
People with two or more 'at risk' conditions (65+)	<b>10,688</b>	29.0%
People with no 'at risk' conditions (65+)	<b>17,996</b>	48.7%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS CHORLEY AND SOUTH RIBBLE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS COUNTY DURHAM CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS COUNTY DURHAM CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>561,675</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>122,085</b>	21.7%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>50,483</b>	9.0%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>175,640</b>	31.3%
<b>Total Population (16-64)</b>	<b>359,689</b>	
People with one or more 'at risk' conditions (16-64)	<b>58,890</b>	16.4%
People with two or more 'at risk' conditions (16-64)	<b>17,175</b>	4.8%
<b>Total Population (65+)</b>	<b>113,036</b>	
People with one or more 'at risk' conditions (65+)	<b>59,481</b>	52.6%
People with two or more 'at risk' conditions (65+)	<b>32,689</b>	28.9%
People with no 'at risk' conditions (65+)	<b>53,555</b>	47.4%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS COVENTRY AND WARWICKSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS COVENTRY AND WARWICKSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,046,168</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>176,450</b>	16.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>66,555</b>	6.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>264,869</b>	25.3%
<b>Total Population (16-64)</b>	<b>694,305</b>	
People with one or more 'at risk' conditions (16-64)	<b>86,288</b>	12.4%
People with two or more 'at risk' conditions (16-64)	<b>21,819</b>	3.1%
<b>Total Population (65+)</b>	<b>172,499</b>	
People with one or more 'at risk' conditions (65+)	<b>84,080</b>	48.7%
People with two or more 'at risk' conditions (65+)	<b>43,706</b>	25.3%
People with no 'at risk' conditions (65+)	<b>88,419</b>	51.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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**DRAFT**

NHS COVENTRY AND WARWICKSHIRE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS DERBY AND DERBYSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS DERBY AND DERBYSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,051,418</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>212,264</b>	20.2%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>85,160</b>	8.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>316,586</b>	30.1%
<b>Total Population (16-64)</b>	<b>665,419</b>	
People with one or more 'at risk' conditions (16-64)	<b>102,411</b>	15.4%
People with two or more 'at risk' conditions (16-64)	<b>28,103</b>	4.2%
<b>Total Population (65+)</b>	<b>208,274</b>	
People with one or more 'at risk' conditions (65+)	<b>103,952</b>	49.9%
People with two or more 'at risk' conditions (65+)	<b>55,891</b>	26.8%
People with no 'at risk' conditions (65+)	<b>104,322</b>	50.1%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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**DRAFT**

NHS DERBY AND DERBYSHIRE CCG



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS DEVON CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS DEVON CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,253,923</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>245,684</b>	19.6%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>100,957</b>	8.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>405,023</b>	32.3%
<b>Total Population (16-64)</b>	<b>763,654</b>	
People with one or more 'at risk' conditions (16-64)	<b>101,851</b>	13.3%
People with two or more 'at risk' conditions (16-64)	<b>28,370</b>	3.7%
<b>Total Population (65+)</b>	<b>295,309</b>	
People with one or more 'at risk' conditions (65+)	<b>135,970</b>	46.0%
People with two or more 'at risk' conditions (65+)	<b>71,293</b>	24.1%
People with no 'at risk' conditions (65+)	<b>159,339</b>	54.0%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS DONCASTER CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS DONCASTER CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>320,622</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>67,066</b>	20.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>26,951</b>	8.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>95,188</b>	29.7%
<b>Total Population (16-64)</b>	<b>202,943</b>	
People with one or more 'at risk' conditions (16-64)	<b>33,429</b>	16.5%
People with two or more 'at risk' conditions (16-64)	<b>9,354</b>	4.6%
<b>Total Population (65+)</b>	<b>59,227</b>	
People with one or more 'at risk' conditions (65+)	<b>31,105</b>	52.5%
People with two or more 'at risk' conditions (65+)	<b>17,121</b>	28.9%
People with no 'at risk' conditions (65+)	<b>28,122</b>	47.5%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS DORSET CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS DORSET CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>810,866</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>161,654</b>	19.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>68,535</b>	8.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>264,906</b>	32.7%
<b>Total Population (16-64)</b>	<b>494,286</b>	
People with one or more 'at risk' conditions (16-64)	<b>64,891</b>	13.1%
People with two or more 'at risk' conditions (16-64)	<b>17,908</b>	3.6%
<b>Total Population (65+)</b>	<b>195,586</b>	
People with one or more 'at risk' conditions (65+)	<b>92,334</b>	47.2%
People with two or more 'at risk' conditions (65+)	<b>49,826</b>	25.5%
People with no 'at risk' conditions (65+)	<b>103,252</b>	52.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS EAST AND NORTH HERTFORDSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS EAST AND NORTH HERTFORDSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>608,804</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>98,735</b>	16.2%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>37,467</b>	6.2%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>152,919</b>	25.1%
<b>Total Population (16-64)</b>	<b>395,674</b>	
People with one or more 'at risk' conditions (16-64)	<b>46,745</b>	11.8%
People with two or more 'at risk' conditions (16-64)	<b>11,630</b>	2.9%
<b>Total Population (65+)</b>	<b>102,664</b>	
People with one or more 'at risk' conditions (65+)	<b>48,480</b>	47.2%
People with two or more 'at risk' conditions (65+)	<b>25,096</b>	24.4%
People with no 'at risk' conditions (65+)	<b>54,184</b>	52.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS EAST AND NORTH HERTFORDSHIRE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS EAST LANCASHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS EAST LANCASHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>385,574</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>82,798</b>	21.5%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>33,805</b>	8.8%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>115,680</b>	30.0%
<b>Total Population (16-64)</b>	<b>241,616</b>	
People with one or more 'at risk' conditions (16-64)	<b>41,863</b>	17.3%
People with two or more 'at risk' conditions (16-64)	<b>12,249</b>	5.1%
<b>Total Population (65+)</b>	<b>69,809</b>	
People with one or more 'at risk' conditions (65+)	<b>36,927</b>	52.9%
People with two or more 'at risk' conditions (65+)	<b>20,873</b>	29.9%
People with no 'at risk' conditions (65+)	<b>32,882</b>	47.1%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS EAST LEICESTERSHIRE AND RUTLAND CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS EAST LEICESTERSHIRE AND RUTLAND CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>335,559</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>62,106</b>	18.5%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>24,416</b>	7.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>102,269</b>	30.5%
<b>Total Population (16-64)</b>	<b>204,311</b>	
People with one or more 'at risk' conditions (16-64)	<b>27,025</b>	13.2%
People with two or more 'at risk' conditions (16-64)	<b>6,760</b>	3.3%
<b>Total Population (65+)</b>	<b>73,574</b>	
People with one or more 'at risk' conditions (65+)	<b>33,411</b>	45.4%
People with two or more 'at risk' conditions (65+)	<b>17,297</b>	23.5%
People with no 'at risk' conditions (65+)	<b>40,163</b>	54.6%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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**DRAFT**

NHS EAST LEICESTERSHIRE AND RUTLAND CCG



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS EAST RIDING OF YORKSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS EAST RIDING OF YORKSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>303,284</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>65,317</b>	21.5%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>27,113</b>	8.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>106,039</b>	35.0%
<b>Total Population (16-64)</b>	<b>178,185</b>	
People with one or more 'at risk' conditions (16-64)	<b>25,830</b>	14.5%
People with two or more 'at risk' conditions (16-64)	<b>7,112</b>	4.0%
<b>Total Population (65+)</b>	<b>78,671</b>	
People with one or more 'at risk' conditions (65+)	<b>37,949</b>	48.2%
People with two or more 'at risk' conditions (65+)	<b>19,748</b>	25.1%
People with no 'at risk' conditions (65+)	<b>40,722</b>	51.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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**DRAFT**

NHS EAST RIDING OF YORKSHIRE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS EAST STAFFORDSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS EAST STAFFORDSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>142,535</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>28,267</b>	19.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>11,286</b>	7.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>41,584</b>	29.2%
<b>Total Population (16-64)</b>	<b>89,649</b>	
People with one or more 'at risk' conditions (16-64)	<b>13,923</b>	15.5%
People with two or more 'at risk' conditions (16-64)	<b>3,781</b>	4.2%
<b>Total Population (65+)</b>	<b>26,754</b>	
People with one or more 'at risk' conditions (65+)	<b>13,437</b>	50.2%
People with two or more 'at risk' conditions (65+)	<b>7,335</b>	27.4%
People with no 'at risk' conditions (65+)	<b>13,317</b>	49.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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**DRAFT**

NHS EAST STAFFORDSHIRE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS EAST SUSSEX CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS EAST SUSSEX CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>562,490</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>114,435</b>	20.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>47,299</b>	8.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>190,076</b>	33.8%
<b>Total Population (16-64)</b>	<b>332,106</b>	
People with one or more 'at risk' conditions (16-64)	<b>46,103</b>	13.9%
People with two or more 'at risk' conditions (16-64)	<b>12,816</b>	3.9%
<b>Total Population (65+)</b>	<b>140,791</b>	
People with one or more 'at risk' conditions (65+)	<b>65,150</b>	46.3%
People with two or more 'at risk' conditions (65+)	<b>33,918</b>	24.1%
People with no 'at risk' conditions (65+)	<b>75,641</b>	53.7%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

NHS EAST SUSSEX CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS FRIMLEY CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS FRIMLEY CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>815,574</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>133,610</b>	16.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>50,475</b>	6.2%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>198,070</b>	24.3%
<b>Total Population (16-64)</b>	<b>532,293</b>	
People with one or more 'at risk' conditions (16-64)	<b>66,953</b>	12.6%
People with two or more 'at risk' conditions (16-64)	<b>17,030</b>	3.2%
<b>Total Population (65+)</b>	<b>126,623</b>	
People with one or more 'at risk' conditions (65+)	<b>62,163</b>	49.1%
People with two or more 'at risk' conditions (65+)	<b>32,612</b>	25.8%
People with no 'at risk' conditions (65+)	<b>64,460</b>	50.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS FYLDE AND WYRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS FYLDE AND WYRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>176,306</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>40,825</b>	23.2%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>17,906</b>	10.2%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>65,113</b>	36.9%
<b>Total Population (16-64)</b>	<b>102,043</b>	
People with one or more 'at risk' conditions (16-64)	<b>16,108</b>	15.8%
People with two or more 'at risk' conditions (16-64)	<b>4,691</b>	4.6%
<b>Total Population (65+)</b>	<b>47,970</b>	
People with one or more 'at risk' conditions (65+)	<b>23,682</b>	49.4%
People with two or more 'at risk' conditions (65+)	<b>13,035</b>	27.2%
People with no 'at risk' conditions (65+)	<b>24,288</b>	50.6%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS GLOUCESTERSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS GLOUCESTERSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>667,069</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>132,132</b>	19.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>54,044</b>	8.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>205,336</b>	30.8%
<b>Total Population (16-64)</b>	<b>414,887</b>	
People with one or more 'at risk' conditions (16-64)	<b>61,775</b>	14.9%
People with two or more 'at risk' conditions (16-64)	<b>16,811</b>	4.1%
<b>Total Population (65+)</b>	<b>139,979</b>	
People with one or more 'at risk' conditions (65+)	<b>66,775</b>	47.7%
People with two or more 'at risk' conditions (65+)	<b>36,488</b>	26.1%
People with no 'at risk' conditions (65+)	<b>73,204</b>	52.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS GREATER PRESTON CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS GREATER PRESTON CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>219,818</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>38,661</b>	17.6%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>16,141</b>	7.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>54,429</b>	24.8%
<b>Total Population (16-64)</b>	<b>146,890</b>	
People with one or more 'at risk' conditions (16-64)	<b>19,288</b>	13.1%
People with two or more 'at risk' conditions (16-64)	<b>5,724</b>	3.9%
<b>Total Population (65+)</b>	<b>33,527</b>	
People with one or more 'at risk' conditions (65+)	<b>17,759</b>	53.0%
People with two or more 'at risk' conditions (65+)	<b>10,139</b>	30.2%
People with no 'at risk' conditions (65+)	<b>15,768</b>	47.0%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021. <https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS HALTON CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS HALTON CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>129,912</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>29,214</b>	22.5%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>12,711</b>	9.8%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>39,290</b>	30.2%
<b>Total Population (16-64)</b>	<b>83,185</b>	
People with one or more 'at risk' conditions (16-64)	<b>15,502</b>	18.6%
People with two or more 'at risk' conditions (16-64)	<b>4,983</b>	6.0%
<b>Total Population (65+)</b>	<b>22,729</b>	
People with one or more 'at risk' conditions (65+)	<b>12,653</b>	55.7%
People with two or more 'at risk' conditions (65+)	<b>7,549</b>	33.2%
People with no 'at risk' conditions (65+)	<b>10,076</b>	44.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS HAMPSHIRE, SOUTHAMPTON AND ISLE OF WIGHT CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS HAMPSHIRE, SOUTHAMPTON AND ISLE OF WIGHT CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,670,696</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>311,256</b>	18.6%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>126,665</b>	7.6%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>496,359</b>	29.7%
<b>Total Population (16-64)</b>	<b>1,044,083</b>	
People with one or more 'at risk' conditions (16-64)	<b>139,275</b>	13.3%
People with two or more 'at risk' conditions (16-64)	<b>38,551</b>	3.7%
<b>Total Population (65+)</b>	<b>348,221</b>	
People with one or more 'at risk' conditions (65+)	<b>163,118</b>	46.8%
People with two or more 'at risk' conditions (65+)	<b>86,440</b>	24.8%
People with no 'at risk' conditions (65+)	<b>185,103</b>	53.2%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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**DRAFT**

NHS HAMPSHIRE, SOUTHAMPTON AND ISLE OF WIGHT CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS HEREFORDSHIRE AND WORCESTERSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS HEREFORDSHIRE AND WORCESTERSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>792,123</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>157,157</b>	19.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>62,965</b>	7.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>253,155</b>	32.0%
<b>Total Population (16-64)</b>	<b>481,458</b>	
People with one or more 'at risk' conditions (16-64)	<b>68,459</b>	14.2%
People with two or more 'at risk' conditions (16-64)	<b>17,947</b>	3.7%
<b>Total Population (65+)</b>	<b>180,127</b>	
People with one or more 'at risk' conditions (65+)	<b>84,129</b>	46.7%
People with two or more 'at risk' conditions (65+)	<b>44,215</b>	24.5%
People with no 'at risk' conditions (65+)	<b>95,998</b>	53.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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**DRAFT**

NHS HEREFORDSHIRE AND WORCESTERSHIRE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS HERTS VALLEYS CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS HERTS VALLEYS CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>661,623</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>107,282</b>	16.2%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>41,824</b>	6.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>163,632</b>	24.7%
<b>Total Population (16-64)</b>	<b>426,259</b>	
People with one or more 'at risk' conditions (16-64)	<b>51,712</b>	12.1%
People with two or more 'at risk' conditions (16-64)	<b>13,694</b>	3.2%
<b>Total Population (65+)</b>	<b>107,367</b>	
People with one or more 'at risk' conditions (65+)	<b>51,017</b>	47.5%
People with two or more 'at risk' conditions (65+)	<b>27,228</b>	25.4%
People with no 'at risk' conditions (65+)	<b>56,350</b>	52.5%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021. <https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS HEYWOOD, MIDDLETON AND ROCHDALE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS HEYWOOD, MIDDLETON AND ROCHDALE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>233,629</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>46,238</b>	19.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>18,075</b>	7.7%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>63,737</b>	27.3%
<b>Total Population (16-64)</b>	<b>147,996</b>	
People with one or more 'at risk' conditions (16-64)	<b>25,294</b>	17.1%
People with two or more 'at risk' conditions (16-64)	<b>7,339</b>	5.0%
<b>Total Population (65+)</b>	<b>36,337</b>	
People with one or more 'at risk' conditions (65+)	<b>18,838</b>	51.8%
People with two or more 'at risk' conditions (65+)	<b>10,392</b>	28.6%
People with no 'at risk' conditions (65+)	<b>17,499</b>	48.2%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

NHS HEYWOOD, MIDDLETON AND ROCHDALE CCG



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS HULL CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS HULL CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>305,279</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>58,613</b>	19.2%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>22,555</b>	7.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>80,353</b>	26.3%
<b>Total Population (16-64)</b>	<b>202,412</b>	
People with one or more 'at risk' conditions (16-64)	<b>32,356</b>	16.0%
People with two or more 'at risk' conditions (16-64)	<b>9,178</b>	4.5%
<b>Total Population (65+)</b>	<b>46,084</b>	
People with one or more 'at risk' conditions (65+)	<b>24,344</b>	52.8%
People with two or more 'at risk' conditions (65+)	<b>13,052</b>	28.3%
People with no 'at risk' conditions (65+)	<b>21,740</b>	47.2%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS IPSWICH AND EAST SUFFOLK CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS IPSWICH AND EAST SUFFOLK CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>409,442</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>77,344</b>	18.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>30,871</b>	7.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>125,881</b>	30.7%
<b>Total Population (16-64)</b>	<b>250,558</b>	
People with one or more 'at risk' conditions (16-64)	<b>34,439</b>	13.7%
People with two or more 'at risk' conditions (16-64)	<b>8,969</b>	3.6%
<b>Total Population (65+)</b>	<b>88,983</b>	
People with one or more 'at risk' conditions (65+)	<b>40,446</b>	45.5%
People with two or more 'at risk' conditions (65+)	<b>21,510</b>	24.2%
People with no 'at risk' conditions (65+)	<b>48,537</b>	54.5%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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NHS IPSWICH AND EAST SUFFOLK CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS KENT AND MEDWAY CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS KENT AND MEDWAY CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,931,154</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>356,174</b>	18.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>140,140</b>	7.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>549,493</b>	28.5%
<b>Total Population (16-64)</b>	<b>1,201,805</b>	
People with one or more 'at risk' conditions (16-64)	<b>164,799</b>	13.7%
People with two or more 'at risk' conditions (16-64)	<b>44,754</b>	3.7%
<b>Total Population (65+)</b>	<b>372,222</b>	
People with one or more 'at risk' conditions (65+)	<b>178,903</b>	48.1%
People with two or more 'at risk' conditions (65+)	<b>93,066</b>	25.0%
People with no 'at risk' conditions (65+)	<b>193,319</b>	51.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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**DRAFT**

NHS KENT AND MEDWAY CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS KERNOW CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS KERNOW CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>587,235</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>131,329</b>	22.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>58,023</b>	9.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>204,781</b>	34.9%
<b>Total Population (16-64)</b>	<b>350,298</b>	
People with one or more 'at risk' conditions (16-64)	<b>55,576</b>	15.9%
People with two or more 'at risk' conditions (16-64)	<b>16,597</b>	4.7%
<b>Total Population (65+)</b>	<b>145,128</b>	
People with one or more 'at risk' conditions (65+)	<b>71,676</b>	49.4%
People with two or more 'at risk' conditions (65+)	<b>40,713</b>	28.1%
People with no 'at risk' conditions (65+)	<b>73,452</b>	50.6%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS KIRKLEES CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS KIRKLEES CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>447,839</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>84,420</b>	18.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>32,435</b>	7.2%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>121,702</b>	27.2%
<b>Total Population (16-64)</b>	<b>289,057</b>	
People with one or more 'at risk' conditions (16-64)	<b>44,383</b>	15.4%
People with two or more 'at risk' conditions (16-64)	<b>11,998</b>	4.2%
<b>Total Population (65+)</b>	<b>74,191</b>	
People with one or more 'at risk' conditions (65+)	<b>36,909</b>	49.7%
People with two or more 'at risk' conditions (65+)	<b>19,828</b>	26.7%
People with no 'at risk' conditions (65+)	<b>37,282</b>	50.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS KNOWSLEY CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS KNOWSLEY CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>162,974</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>36,955</b>	22.7%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>16,189</b>	9.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>48,179</b>	29.6%
<b>Total Population (16-64)</b>	<b>105,267</b>	
People with one or more 'at risk' conditions (16-64)	<b>20,022</b>	19.0%
People with two or more 'at risk' conditions (16-64)	<b>6,591</b>	6.3%
<b>Total Population (65+)</b>	<b>26,738</b>	
People with one or more 'at risk' conditions (65+)	<b>15,514</b>	58.0%
People with two or more 'at risk' conditions (65+)	<b>9,393</b>	35.1%
People with no 'at risk' conditions (65+)	<b>11,224</b>	42.0%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>





# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS LEEDS CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS LEEDS CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>917,064</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>147,973</b>	16.1%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>56,175</b>	6.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>212,274</b>	23.1%
<b>Total Population (16-64)</b>	<b>627,479</b>	
People with one or more 'at risk' conditions (16-64)	<b>77,929</b>	12.4%
People with two or more 'at risk' conditions (16-64)	<b>19,997</b>	3.2%
<b>Total Population (65+)</b>	<b>129,375</b>	
People with one or more 'at risk' conditions (65+)	<b>65,074</b>	50.3%
People with two or more 'at risk' conditions (65+)	<b>35,184</b>	27.2%
People with no 'at risk' conditions (65+)	<b>64,301</b>	49.7%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021. <https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS LEICESTER CITY CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS LEICESTER CITY CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>437,246</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>72,434</b>	16.6%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>26,046</b>	6.0%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>94,209</b>	21.5%
<b>Total Population (16-64)</b>	<b>306,028</b>	
People with one or more 'at risk' conditions (16-64)	<b>43,121</b>	14.1%
People with two or more 'at risk' conditions (16-64)	<b>11,308</b>	3.7%
<b>Total Population (65+)</b>	<b>48,630</b>	
People with one or more 'at risk' conditions (65+)	<b>26,855</b>	55.2%
People with two or more 'at risk' conditions (65+)	<b>14,181</b>	29.2%
People with no 'at risk' conditions (65+)	<b>21,775</b>	44.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS LINCOLNSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS LINCOLNSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>787,911</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>162,456</b>	20.6%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>65,929</b>	8.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>255,531</b>	32.4%
<b>Total Population (16-64)</b>	<b>478,726</b>	
People with one or more 'at risk' conditions (16-64)	<b>71,334</b>	14.9%
People with two or more 'at risk' conditions (16-64)	<b>19,741</b>	4.1%
<b>Total Population (65+)</b>	<b>179,714</b>	
People with one or more 'at risk' conditions (65+)	<b>86,639</b>	48.2%
People with two or more 'at risk' conditions (65+)	<b>45,341</b>	25.2%
People with no 'at risk' conditions (65+)	<b>93,075</b>	51.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS LIVERPOOL CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS LIVERPOOL CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>562,946</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>107,469</b>	19.1%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>45,255</b>	8.0%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>141,751</b>	25.2%
<b>Total Population (16-64)</b>	<b>392,557</b>	
People with one or more 'at risk' conditions (16-64)	<b>59,735</b>	15.2%
People with two or more 'at risk' conditions (16-64)	<b>18,766</b>	4.8%
<b>Total Population (65+)</b>	<b>78,044</b>	
People with one or more 'at risk' conditions (65+)	<b>43,762</b>	56.1%
People with two or more 'at risk' conditions (65+)	<b>25,878</b>	33.2%
People with no 'at risk' conditions (65+)	<b>34,282</b>	43.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS MANCHESTER CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS MANCHESTER CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>702,510</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>107,775</b>	15.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>40,126</b>	5.7%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>135,828</b>	19.3%
<b>Total Population (16-64)</b>	<b>510,545</b>	
People with one or more 'at risk' conditions (16-64)	<b>67,390</b>	13.2%
People with two or more 'at risk' conditions (16-64)	<b>19,005</b>	3.7%
<b>Total Population (65+)</b>	<b>62,426</b>	
People with one or more 'at risk' conditions (65+)	<b>34,373</b>	55.1%
People with two or more 'at risk' conditions (65+)	<b>20,075</b>	32.2%
People with no 'at risk' conditions (65+)	<b>28,053</b>	44.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS MID ESSEX CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS MID ESSEX CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>392,166</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>69,459</b>	17.7%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>26,660</b>	6.8%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>112,893</b>	28.8%
<b>Total Population (16-64)</b>	<b>242,890</b>	
People with one or more 'at risk' conditions (16-64)	<b>30,574</b>	12.6%
People with two or more 'at risk' conditions (16-64)	<b>7,736</b>	3.2%
<b>Total Population (65+)</b>	<b>80,133</b>	
People with one or more 'at risk' conditions (65+)	<b>36,699</b>	45.8%
People with two or more 'at risk' conditions (65+)	<b>18,488</b>	23.1%
People with no 'at risk' conditions (65+)	<b>43,434</b>	54.2%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>





# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS MORECAMBE BAY CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS MORECAMBE BAY CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>351,249</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>70,911</b>	20.2%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>30,599</b>	8.7%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>109,392</b>	31.1%
<b>Total Population (16-64)</b>	<b>223,198</b>	
People with one or more 'at risk' conditions (16-64)	<b>31,066</b>	13.9%
People with two or more 'at risk' conditions (16-64)	<b>9,308</b>	4.2%
<b>Total Population (65+)</b>	<b>76,381</b>	
People with one or more 'at risk' conditions (65+)	<b>37,900</b>	49.6%
People with two or more 'at risk' conditions (65+)	<b>20,971</b>	27.5%
People with no 'at risk' conditions (65+)	<b>38,481</b>	50.4%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS NEWCASTLE GATESHEAD CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS NEWCASTLE GATESHEAD CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>547,775</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>98,173</b>	17.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>39,795</b>	7.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>136,497</b>	24.9%
<b>Total Population (16-64)</b>	<b>378,862</b>	
People with one or more 'at risk' conditions (16-64)	<b>50,213</b>	13.3%
People with two or more 'at risk' conditions (16-64)	<b>13,912</b>	3.7%
<b>Total Population (65+)</b>	<b>83,036</b>	
People with one or more 'at risk' conditions (65+)	<b>44,712</b>	53.8%
People with two or more 'at risk' conditions (65+)	<b>25,260</b>	30.4%
People with no 'at risk' conditions (65+)	<b>38,324</b>	46.2%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

**NHS NEWCASTLE GATESHEAD CCG**

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS NORFOLK AND WAVENEY CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS NORFOLK AND WAVENEY CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,049,788</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>209,259</b>	19.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>82,453</b>	7.9%
People aged 65+ <b>or</b> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>342,473</b>	32.6%
<b>Total Population (16-64)</b>	<b>634,975</b>	
People with one or more 'at risk' conditions (16-64)	<b>87,170</b>	13.7%
People with two or more 'at risk' conditions (16-64)	<b>23,220</b>	3.7%
<b>Total Population (65+)</b>	<b>249,024</b>	
People with one or more 'at risk' conditions (65+)	<b>115,810</b>	46.5%
People with two or more 'at risk' conditions (65+)	<b>58,186</b>	23.4%
People with no 'at risk' conditions (65+)	<b>133,214</b>	53.5%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS NORFOLK AND WAVENEY CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS NORTH CENTRAL LONDON CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS NORTH CENTRAL LONDON CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,787,147</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>236,415</b>	13.2%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>83,926</b>	4.7%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>335,669</b>	18.8%
<b>Total Population (16-64)</b>	<b>1,302,565</b>	
People with one or more 'at risk' conditions (16-64)	<b>127,570</b>	9.8%
People with two or more 'at risk' conditions (16-64)	<b>32,031</b>	2.5%
<b>Total Population (65+)</b>	<b>193,453</b>	
People with one or more 'at risk' conditions (65+)	<b>94,199</b>	48.7%
People with two or more 'at risk' conditions (65+)	<b>49,538</b>	25.6%
People with no 'at risk' conditions (65+)	<b>99,254</b>	51.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS NORTH CENTRAL LONDON CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS NORTH CUMBRIA CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS NORTH CUMBRIA CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>324,203</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>67,994</b>	21.0%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>27,889</b>	8.6%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>103,992</b>	32.1%
<b>Total Population (16-64)</b>	<b>201,022</b>	
People with one or more 'at risk' conditions (16-64)	<b>30,683</b>	15.3%
People with two or more 'at risk' conditions (16-64)	<b>8,610</b>	4.3%
<b>Total Population (65+)</b>	<b>71,534</b>	
People with one or more 'at risk' conditions (65+)	<b>35,536</b>	49.7%
People with two or more 'at risk' conditions (65+)	<b>18,994</b>	26.6%
People with no 'at risk' conditions (65+)	<b>35,998</b>	50.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS NORTH EAST ESSEX CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS NORTH EAST ESSEX CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>357,130</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>72,308</b>	20.2%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>29,917</b>	8.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>112,744</b>	31.6%
<b>Total Population (16-64)</b>	<b>217,731</b>	
People with one or more 'at risk' conditions (16-64)	<b>31,295</b>	14.4%
People with two or more 'at risk' conditions (16-64)	<b>8,949</b>	4.1%
<b>Total Population (65+)</b>	<b>79,215</b>	
People with one or more 'at risk' conditions (65+)	<b>38,779</b>	49.0%
People with two or more 'at risk' conditions (65+)	<b>20,462</b>	25.8%
People with no 'at risk' conditions (65+)	<b>40,436</b>	51.0%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS NORTH EAST LINCOLNSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS NORTH EAST LINCOLNSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>160,082</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>34,282</b>	21.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>14,346</b>	9.0%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>51,010</b>	31.9%
<b>Total Population (16-64)</b>	<b>96,111</b>	
People with one or more 'at risk' conditions (16-64)	<b>16,032</b>	16.7%
People with two or more 'at risk' conditions (16-64)	<b>4,870</b>	5.1%
<b>Total Population (65+)</b>	<b>33,697</b>	
People with one or more 'at risk' conditions (65+)	<b>16,969</b>	50.4%
People with two or more 'at risk' conditions (65+)	<b>9,216</b>	27.3%
People with no 'at risk' conditions (65+)	<b>16,728</b>	49.6%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021. <https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

NHS NORTH EAST LINCOLNSHIRE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS NORTH EAST LONDON CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS NORTH EAST LONDON CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>2,364,810</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>346,789</b>	14.7%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>120,539</b>	5.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>447,607</b>	18.9%
<b>Total Population (16-64)</b>	<b>1,694,273</b>	
People with one or more 'at risk' conditions (16-64)	<b>213,857</b>	12.6%
People with two or more 'at risk' conditions (16-64)	<b>55,000</b>	3.2%
<b>Total Population (65+)</b>	<b>217,355</b>	
People with one or more 'at risk' conditions (65+)	<b>116,537</b>	53.6%
People with two or more 'at risk' conditions (65+)	<b>62,234</b>	28.6%
People with no 'at risk' conditions (65+)	<b>100,818</b>	46.4%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

NHS NORTH EAST LONDON CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS NORTH LINCOLNSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS NORTH LINCOLNSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>179,642</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>36,526</b>	20.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>14,572</b>	8.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>55,945</b>	31.1%
<b>Total Population (16-64)</b>	<b>111,088</b>	
People with one or more 'at risk' conditions (16-64)	<b>16,610</b>	15.0%
People with two or more 'at risk' conditions (16-64)	<b>4,669</b>	4.2%
<b>Total Population (65+)</b>	<b>38,151</b>	
People with one or more 'at risk' conditions (65+)	<b>18,732</b>	49.1%
People with two or more 'at risk' conditions (65+)	<b>9,692</b>	25.4%
People with no 'at risk' conditions (65+)	<b>19,419</b>	50.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS NORTH LINCOLNSHIRE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS NORTH STAFFORDSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS NORTH STAFFORDSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>213,484</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>45,281</b>	21.2%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>17,686</b>	8.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>69,718</b>	32.7%
<b>Total Population (16-64)</b>	<b>132,353</b>	
People with one or more 'at risk' conditions (16-64)	<b>20,231</b>	15.3%
People with two or more 'at risk' conditions (16-64)	<b>5,210</b>	3.9%
<b>Total Population (65+)</b>	<b>48,090</b>	
People with one or more 'at risk' conditions (65+)	<b>23,653</b>	49.2%
People with two or more 'at risk' conditions (65+)	<b>12,210</b>	25.4%
People with no 'at risk' conditions (65+)	<b>24,437</b>	50.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS NORTH STAFFORDSHIRE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS NORTH TYNESIDE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS NORTH TYNESIDE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>219,226</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>47,814</b>	21.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>19,873</b>	9.1%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>68,130</b>	31.1%
<b>Total Population (16-64)</b>	<b>137,889</b>	
People with one or more 'at risk' conditions (16-64)	<b>22,439</b>	16.3%
People with two or more 'at risk' conditions (16-64)	<b>6,321</b>	4.6%
<b>Total Population (65+)</b>	<b>44,068</b>	
People with one or more 'at risk' conditions (65+)	<b>23,752</b>	53.9%
People with two or more 'at risk' conditions (65+)	<b>13,251</b>	30.1%
People with no 'at risk' conditions (65+)	<b>20,316</b>	46.1%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS NORTH WEST LONDON CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS NORTH WEST LONDON CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>2,791,679</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>389,890</b>	14.0%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>137,175</b>	4.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>539,672</b>	19.3%
<b>Total Population (16-64)</b>	<b>2,048,398</b>	
People with one or more 'at risk' conditions (16-64)	<b>218,448</b>	10.7%
People with two or more 'at risk' conditions (16-64)	<b>54,542</b>	2.7%
<b>Total Population (65+)</b>	<b>299,905</b>	
People with one or more 'at risk' conditions (65+)	<b>150,123</b>	50.1%
People with two or more 'at risk' conditions (65+)	<b>79,423</b>	26.5%
People with no 'at risk' conditions (65+)	<b>149,782</b>	49.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS NORTH WEST LONDON CCG



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS NORTH YORKSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS NORTH YORKSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>434,790</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>86,556</b>	19.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>34,867</b>	8.0%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>143,520</b>	33.0%
<b>Total Population (16-64)</b>	<b>262,443</b>	
People with one or more 'at risk' conditions (16-64)	<b>35,765</b>	13.6%
People with two or more 'at risk' conditions (16-64)	<b>9,426</b>	3.6%
<b>Total Population (65+)</b>	<b>105,591</b>	
People with one or more 'at risk' conditions (65+)	<b>48,627</b>	46.1%
People with two or more 'at risk' conditions (65+)	<b>25,061</b>	23.7%
People with no 'at risk' conditions (65+)	<b>56,964</b>	53.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS NORTHAMPTONSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS NORTHAMPTONSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>782,413</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>143,112</b>	18.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>56,496</b>	7.2%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>209,549</b>	26.8%
<b>Total Population (16-64)</b>	<b>502,266</b>	
People with one or more 'at risk' conditions (16-64)	<b>72,274</b>	14.4%
People with two or more 'at risk' conditions (16-64)	<b>20,007</b>	4.0%
<b>Total Population (65+)</b>	<b>131,988</b>	
People with one or more 'at risk' conditions (65+)	<b>65,551</b>	49.7%
People with two or more 'at risk' conditions (65+)	<b>35,539</b>	26.9%
People with no 'at risk' conditions (65+)	<b>66,437</b>	50.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS NORTHAMPTONSHIRE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS NORTHUMBERLAND CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS NORTHUMBERLAND CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>327,104</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>76,463</b>	23.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>32,100</b>	9.8%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>115,933</b>	35.4%
<b>Total Population (16-64)</b>	<b>195,958</b>	
People with one or more 'at risk' conditions (16-64)	<b>33,480</b>	17.1%
People with two or more 'at risk' conditions (16-64)	<b>9,538</b>	4.9%
<b>Total Population (65+)</b>	<b>80,283</b>	
People with one or more 'at risk' conditions (65+)	<b>40,813</b>	50.8%
People with two or more 'at risk' conditions (65+)	<b>22,163</b>	27.6%
People with no 'at risk' conditions (65+)	<b>39,470</b>	49.2%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

NHS NORTHUMBERLAND CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS NOTTINGHAM AND NOTTINGHAMSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS NOTTINGHAM AND NOTTINGHAMSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,116,179</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>212,312</b>	19.0%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>87,764</b>	7.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>300,809</b>	26.9%
<b>Total Population (16-64)</b>	<b>740,891</b>	
People with one or more 'at risk' conditions (16-64)	<b>109,353</b>	14.8%
People with two or more 'at risk' conditions (16-64)	<b>32,228</b>	4.3%
<b>Total Population (65+)</b>	<b>184,734</b>	
People with one or more 'at risk' conditions (65+)	<b>96,237</b>	52.1%
People with two or more 'at risk' conditions (65+)	<b>54,143</b>	29.3%
People with no 'at risk' conditions (65+)	<b>88,497</b>	47.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS NOTTINGHAM AND NOTTINGHAMSHIRE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS OLDHAM CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS OLDHAM CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>254,289</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>49,467</b>	19.5%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>19,019</b>	7.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>68,076</b>	26.8%
<b>Total Population (16-64)</b>	<b>159,968</b>	
People with one or more 'at risk' conditions (16-64)	<b>26,611</b>	16.6%
People with two or more 'at risk' conditions (16-64)	<b>7,427</b>	4.6%
<b>Total Population (65+)</b>	<b>39,051</b>	
People with one or more 'at risk' conditions (65+)	<b>20,442</b>	52.3%
People with two or more 'at risk' conditions (65+)	<b>11,168</b>	28.6%
People with no 'at risk' conditions (65+)	<b>18,609</b>	47.7%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS OXFORDSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS OXFORDSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>811,957</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>114,232</b>	14.1%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>43,277</b>	5.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>188,072</b>	23.2%
<b>Total Population (16-64)</b>	<b>549,177</b>	
People with one or more 'at risk' conditions (16-64)	<b>52,048</b>	9.5%
People with two or more 'at risk' conditions (16-64)	<b>12,886</b>	2.3%
<b>Total Population (65+)</b>	<b>131,843</b>	
People with one or more 'at risk' conditions (65+)	<b>58,003</b>	44.0%
People with two or more 'at risk' conditions (65+)	<b>29,645</b>	22.5%
People with no 'at risk' conditions (65+)	<b>73,840</b>	56.0%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS PORTSMOUTH CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS PORTSMOUTH CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>232,831</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>38,749</b>	16.6%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>15,193</b>	6.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>54,232</b>	23.3%
<b>Total Population (16-64)</b>	<b>161,436</b>	
People with one or more 'at risk' conditions (16-64)	<b>20,840</b>	12.9%
People with two or more 'at risk' conditions (16-64)	<b>5,837</b>	3.6%
<b>Total Population (65+)</b>	<b>32,082</b>	
People with one or more 'at risk' conditions (65+)	<b>16,599</b>	51.7%
People with two or more 'at risk' conditions (65+)	<b>9,081</b>	28.3%
People with no 'at risk' conditions (65+)	<b>15,483</b>	48.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS ROTHERHAM CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS ROTHERHAM CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>259,317</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>59,238</b>	22.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>23,926</b>	9.2%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>82,541</b>	31.8%
<b>Total Population (16-64)</b>	<b>162,921</b>	
People with one or more 'at risk' conditions (16-64)	<b>31,097</b>	19.1%
People with two or more 'at risk' conditions (16-64)	<b>9,280</b>	5.7%
<b>Total Population (65+)</b>	<b>49,159</b>	
People with one or more 'at risk' conditions (65+)	<b>25,856</b>	52.6%
People with two or more 'at risk' conditions (65+)	<b>14,208</b>	28.9%
People with no 'at risk' conditions (65+)	<b>23,303</b>	47.4%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS SALFORD CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS SALFORD CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>292,146</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>51,780</b>	17.7%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>21,797</b>	7.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>67,650</b>	23.2%
<b>Total Population (16-64)</b>	<b>200,329</b>	
People with one or more 'at risk' conditions (16-64)	<b>29,328</b>	14.6%
People with two or more 'at risk' conditions (16-64)	<b>9,011</b>	4.5%
<b>Total Population (65+)</b>	<b>36,237</b>	
People with one or more 'at risk' conditions (65+)	<b>20,367</b>	56.2%
People with two or more 'at risk' conditions (65+)	<b>12,370</b>	34.1%
People with no 'at risk' conditions (65+)	<b>15,870</b>	43.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS SHEFFIELD CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS SHEFFIELD CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>629,715</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>111,279</b>	17.7%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>44,007</b>	7.0%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>155,275</b>	24.7%
<b>Total Population (16-64)</b>	<b>432,455</b>	
People with one or more 'at risk' conditions (16-64)	<b>55,864</b>	12.9%
People with two or more 'at risk' conditions (16-64)	<b>15,449</b>	3.6%
<b>Total Population (65+)</b>	<b>93,057</b>	
People with one or more 'at risk' conditions (65+)	<b>49,061</b>	52.7%
People with two or more 'at risk' conditions (65+)	<b>27,573</b>	29.6%
People with no 'at risk' conditions (65+)	<b>43,996</b>	47.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS SHROPSHIRE, TELFORD AND WREKIN CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS SHROPSHIRE, TELFORD AND WREKIN CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>508,264</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>105,960</b>	20.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>43,317</b>	8.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>161,743</b>	31.8%
<b>Total Population (16-64)</b>	<b>312,555</b>	
People with one or more 'at risk' conditions (16-64)	<b>48,042</b>	15.4%
People with two or more 'at risk' conditions (16-64)	<b>13,389</b>	4.3%
<b>Total Population (65+)</b>	<b>110,196</b>	
People with one or more 'at risk' conditions (65+)	<b>54,413</b>	49.4%
People with two or more 'at risk' conditions (65+)	<b>29,286</b>	26.6%
People with no 'at risk' conditions (65+)	<b>55,783</b>	50.6%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

NHS SHROPSHIRE, TELFORD AND WREKIN CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS SOMERSET CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS SOMERSET CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>581,341</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>118,075</b>	20.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>48,302</b>	8.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>191,615</b>	33.0%
<b>Total Population (16-64)</b>	<b>346,763</b>	
People with one or more 'at risk' conditions (16-64)	<b>48,742</b>	14.1%
People with two or more 'at risk' conditions (16-64)	<b>13,372</b>	3.9%
<b>Total Population (65+)</b>	<b>139,787</b>	
People with one or more 'at risk' conditions (65+)	<b>66,247</b>	47.4%
People with two or more 'at risk' conditions (65+)	<b>34,339</b>	24.6%
People with no 'at risk' conditions (65+)	<b>73,540</b>	52.6%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS SOUTH EAST LONDON CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS SOUTH EAST LONDON CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>2,070,047</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>311,885</b>	15.1%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>111,692</b>	5.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>428,395</b>	20.7%
<b>Total Population (16-64)</b>	<b>1,480,720</b>	
People with one or more 'at risk' conditions (16-64)	<b>182,406</b>	12.3%
People with two or more 'at risk' conditions (16-64)	<b>47,835</b>	3.2%
<b>Total Population (65+)</b>	<b>232,422</b>	
People with one or more 'at risk' conditions (65+)	<b>115,912</b>	49.9%
People with two or more 'at risk' conditions (65+)	<b>61,273</b>	26.4%
People with no 'at risk' conditions (65+)	<b>116,510</b>	50.1%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS SOUTH EAST LONDON CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS SOUTH EAST STAFFORDSHIRE AND SEISDON PENINSULA CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS SOUTH EAST STAFFORDSHIRE AND SEISDON PENINSULA CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>209,172</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>42,963</b>	20.5%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>17,055</b>	8.2%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>65,908</b>	31.5%
<b>Total Population (16-64)</b>	<b>128,117</b>	
People with one or more 'at risk' conditions (16-64)	<b>19,519</b>	15.2%
People with two or more 'at risk' conditions (16-64)	<b>5,191</b>	4.1%
<b>Total Population (65+)</b>	<b>45,115</b>	
People with one or more 'at risk' conditions (65+)	<b>22,170</b>	49.1%
People with two or more 'at risk' conditions (65+)	<b>11,641</b>	25.8%
People with no 'at risk' conditions (65+)	<b>22,945</b>	50.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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**DRAFT**

NHS SOUTH EAST STAFFORDSHIRE AND SEISDON PENINSULA CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS SOUTH SEFTON CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS SOUTH SEFTON CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>151,537</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>34,244</b>	22.6%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>14,548</b>	9.6%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>47,727</b>	31.5%
<b>Total Population (16-64)</b>	<b>95,678</b>	
People with one or more 'at risk' conditions (16-64)	<b>17,056</b>	17.8%
People with two or more 'at risk' conditions (16-64)	<b>5,249</b>	5.5%
<b>Total Population (65+)</b>	<b>29,563</b>	
People with one or more 'at risk' conditions (65+)	<b>16,080</b>	54.4%
People with two or more 'at risk' conditions (65+)	<b>9,115</b>	30.8%
People with no 'at risk' conditions (65+)	<b>13,483</b>	45.6%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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**DRAFT**

NHS SOUTH SEFTON CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS SOUTH TYNESIDE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS SOUTH TYNESIDE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>156,176</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>34,062</b>	21.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>14,626</b>	9.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>48,101</b>	30.8%
<b>Total Population (16-64)</b>	<b>99,698</b>	
People with one or more 'at risk' conditions (16-64)	<b>16,458</b>	16.5%
People with two or more 'at risk' conditions (16-64)	<b>4,853</b>	4.9%
<b>Total Population (65+)</b>	<b>30,713</b>	
People with one or more 'at risk' conditions (65+)	<b>16,674</b>	54.3%
People with two or more 'at risk' conditions (65+)	<b>9,626</b>	31.3%
People with no 'at risk' conditions (65+)	<b>14,039</b>	45.7%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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**DRAFT**

NHS SOUTH TYNESIDE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS SOUTH WEST LONDON CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS SOUTH WEST LONDON CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,748,851</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>232,966</b>	13.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>84,976</b>	4.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>347,463</b>	19.9%
<b>Total Population (16-64)</b>	<b>1,220,343</b>	
People with one or more 'at risk' conditions (16-64)	<b>123,022</b>	10.1%
People with two or more 'at risk' conditions (16-64)	<b>31,077</b>	2.5%
<b>Total Population (65+)</b>	<b>214,189</b>	
People with one or more 'at risk' conditions (65+)	<b>99,692</b>	46.5%
People with two or more 'at risk' conditions (65+)	<b>51,906</b>	24.2%
People with no 'at risk' conditions (65+)	<b>114,497</b>	53.5%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021. <https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

NHS SOUTH WEST LONDON CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS SOUTHEND CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS SOUTHEND CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>190,094</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>34,745</b>	18.3%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>13,937</b>	7.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>53,800</b>	28.3%
<b>Total Population (16-64)</b>	<b>119,917</b>	
People with one or more 'at risk' conditions (16-64)	<b>16,663</b>	13.9%
People with two or more 'at risk' conditions (16-64)	<b>4,639</b>	3.9%
<b>Total Population (65+)</b>	<b>36,044</b>	
People with one or more 'at risk' conditions (65+)	<b>16,989</b>	47.1%
People with two or more 'at risk' conditions (65+)	<b>9,077</b>	25.2%
People with no 'at risk' conditions (65+)	<b>19,055</b>	52.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>





# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS SOUTHPORT AND FORMBY CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS SOUTHPORT AND FORMBY CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>123,190</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>27,730</b>	22.5%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>12,089</b>	9.8%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>43,913</b>	35.6%
<b>Total Population (16-64)</b>	<b>72,787</b>	
People with one or more 'at risk' conditions (16-64)	<b>11,252</b>	15.5%
People with two or more 'at risk' conditions (16-64)	<b>3,410</b>	4.7%
<b>Total Population (65+)</b>	<b>31,883</b>	
People with one or more 'at risk' conditions (65+)	<b>15,700</b>	49.2%
People with two or more 'at risk' conditions (65+)	<b>8,546</b>	26.8%
People with no 'at risk' conditions (65+)	<b>16,183</b>	50.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS SOUTHPORT AND FORMBY CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS ST HELENS CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS ST HELENS CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>193,071</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>43,713</b>	22.6%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>19,134</b>	9.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>61,714</b>	32.0%
<b>Total Population (16-64)</b>	<b>120,544</b>	
People with one or more 'at risk' conditions (16-64)	<b>21,226</b>	17.6%
People with two or more 'at risk' conditions (16-64)	<b>6,695</b>	5.6%
<b>Total Population (65+)</b>	<b>39,003</b>	
People with one or more 'at risk' conditions (65+)	<b>21,002</b>	53.8%
People with two or more 'at risk' conditions (65+)	<b>12,180</b>	31.2%
People with no 'at risk' conditions (65+)	<b>18,001</b>	46.2%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS STAFFORD AND SURROUNDS CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS STAFFORD AND SURROUNDS CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>147,456</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>29,602</b>	20.1%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>11,474</b>	7.8%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>47,122</b>	32.0%
<b>Total Population (16-64)</b>	<b>90,069</b>	
People with one or more 'at risk' conditions (16-64)	<b>12,927</b>	14.4%
People with two or more 'at risk' conditions (16-64)	<b>3,273</b>	3.6%
<b>Total Population (65+)</b>	<b>33,252</b>	
People with one or more 'at risk' conditions (65+)	<b>15,732</b>	47.3%
People with two or more 'at risk' conditions (65+)	<b>8,035</b>	24.2%
People with no 'at risk' conditions (65+)	<b>17,520</b>	52.7%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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**DRAFT**

NHS STAFFORD AND SURROUNDS CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS STOCKPORT CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS STOCKPORT CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>308,670</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>61,902</b>	20.1%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>25,966</b>	8.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>90,357</b>	29.3%
<b>Total Population (16-64)</b>	<b>193,750</b>	
People with one or more 'at risk' conditions (16-64)	<b>29,898</b>	15.4%
People with two or more 'at risk' conditions (16-64)	<b>8,750</b>	4.5%
<b>Total Population (65+)</b>	<b>58,207</b>	
People with one or more 'at risk' conditions (65+)	<b>29,752</b>	51.1%
People with two or more 'at risk' conditions (65+)	<b>16,844</b>	28.9%
People with no 'at risk' conditions (65+)	<b>28,455</b>	48.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS STOKE ON TRENT CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS STOKE ON TRENT CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>288,506</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>60,276</b>	20.9%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>22,675</b>	7.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>82,752</b>	28.7%
<b>Total Population (16-64)</b>	<b>183,695</b>	
People with one or more 'at risk' conditions (16-64)	<b>32,238</b>	17.5%
People with two or more 'at risk' conditions (16-64)	<b>8,713</b>	4.7%
<b>Total Population (65+)</b>	<b>48,090</b>	
People with one or more 'at risk' conditions (65+)	<b>25,614</b>	53.3%
People with two or more 'at risk' conditions (65+)	<b>13,542</b>	28.2%
People with no 'at risk' conditions (65+)	<b>22,476</b>	46.7%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS STOKE ON TRENT CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS SUNDERLAND CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS SUNDERLAND CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>282,539</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>64,176</b>	22.7%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>27,508</b>	9.7%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>88,999</b>	31.5%
<b>Total Population (16-64)</b>	<b>181,388</b>	
People with one or more 'at risk' conditions (16-64)	<b>31,765</b>	17.5%
People with two or more 'at risk' conditions (16-64)	<b>9,654</b>	5.3%
<b>Total Population (65+)</b>	<b>55,441</b>	
People with one or more 'at risk' conditions (65+)	<b>30,618</b>	55.2%
People with two or more 'at risk' conditions (65+)	<b>17,538</b>	31.6%
People with no 'at risk' conditions (65+)	<b>24,823</b>	44.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>





# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS SURREY HEARTLANDS CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS SURREY HEARTLANDS CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>1,126,307</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>174,630</b>	15.5%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>68,291</b>	6.1%
People aged 65+ <b>or</b> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>286,793</b>	25.5%
<b>Total Population (16-64)</b>	<b>719,060</b>	
People with one or more 'at risk' conditions (16-64)	<b>76,455</b>	10.6%
People with two or more 'at risk' conditions (16-64)	<b>19,027</b>	2.6%
<b>Total Population (65+)</b>	<b>204,234</b>	
People with one or more 'at risk' conditions (65+)	<b>92,071</b>	45.1%
People with two or more 'at risk' conditions (65+)	<b>48,108</b>	23.6%
People with no 'at risk' conditions (65+)	<b>112,163</b>	54.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS SURREY HEARTLANDS CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS TAMESIDE AND GLOSSOP CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS TAMESIDE AND GLOSSOP CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>242,256</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>48,445</b>	20.0%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>19,865</b>	8.2%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>68,052</b>	28.1%
<b>Total Population (16-64)</b>	<b>154,308</b>	
People with one or more 'at risk' conditions (16-64)	<b>24,698</b>	16.0%
People with two or more 'at risk' conditions (16-64)	<b>7,254</b>	4.7%
<b>Total Population (65+)</b>	<b>41,488</b>	
People with one or more 'at risk' conditions (65+)	<b>21,881</b>	52.7%
People with two or more 'at risk' conditions (65+)	<b>12,261</b>	29.6%
People with no 'at risk' conditions (65+)	<b>19,607</b>	47.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



**DRAFT**

NHS TAMESIDE AND GLOSSOP CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS TEES VALLEY CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS TEES VALLEY CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>698,069</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>145,397</b>	20.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>60,012</b>	8.6%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>205,526</b>	29.4%
<b>Total Population (16-64)</b>	<b>441,853</b>	
People with one or more 'at risk' conditions (16-64)	<b>72,362</b>	16.4%
People with two or more 'at risk' conditions (16-64)	<b>21,437</b>	4.9%
<b>Total Population (65+)</b>	<b>127,890</b>	
People with one or more 'at risk' conditions (65+)	<b>67,761</b>	53.0%
People with two or more 'at risk' conditions (65+)	<b>37,559</b>	29.4%
People with no 'at risk' conditions (65+)	<b>60,129</b>	47.0%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021. <https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS THURROCK CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS THURROCK CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>182,362</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>30,044</b>	16.5%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>11,253</b>	6.2%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>42,469</b>	23.3%
<b>Total Population (16-64)</b>	<b>117,801</b>	
People with one or more 'at risk' conditions (16-64)	<b>16,105</b>	13.7%
People with two or more 'at risk' conditions (16-64)	<b>4,278</b>	3.6%
<b>Total Population (65+)</b>	<b>25,056</b>	
People with one or more 'at risk' conditions (65+)	<b>12,631</b>	50.4%
People with two or more 'at risk' conditions (65+)	<b>6,724</b>	26.8%
People with no 'at risk' conditions (65+)	<b>12,425</b>	49.6%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS TRAFFORD CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS TRAFFORD CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>237,389</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>43,211</b>	18.2%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>17,627</b>	7.4%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>63,030</b>	26.6%
<b>Total Population (16-64)</b>	<b>149,978</b>	
People with one or more 'at risk' conditions (16-64)	<b>20,692</b>	13.8%
People with two or more 'at risk' conditions (16-64)	<b>5,695</b>	3.8%
<b>Total Population (65+)</b>	<b>40,591</b>	
People with one or more 'at risk' conditions (65+)	<b>20,772</b>	51.2%
People with two or more 'at risk' conditions (65+)	<b>11,650</b>	28.7%
People with no 'at risk' conditions (65+)	<b>19,819</b>	48.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS VALE OF YORK CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS VALE OF YORK CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>370,310</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>64,268</b>	17.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>25,290</b>	6.8%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>102,748</b>	27.7%
<b>Total Population (16-64)</b>	<b>244,272</b>	
People with one or more 'at risk' conditions (16-64)	<b>30,024</b>	12.3%
People with two or more 'at risk' conditions (16-64)	<b>7,880</b>	3.2%
<b>Total Population (65+)</b>	<b>71,184</b>	
People with one or more 'at risk' conditions (65+)	<b>32,704</b>	45.9%
People with two or more 'at risk' conditions (65+)	<b>17,113</b>	24.0%
People with no 'at risk' conditions (65+)	<b>38,480</b>	54.1%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>





# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS WAKEFIELD CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS WAKEFIELD CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>377,998</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>77,249</b>	20.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>31,141</b>	8.2%
People aged 65+ <b>or</b> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>110,160</b>	29.1%
<b>Total Population (16-64)</b>	<b>242,851</b>	
People with one or more 'at risk' conditions (16-64)	<b>39,819</b>	16.4%
People with two or more 'at risk' conditions (16-64)	<b>11,193</b>	4.6%
<b>Total Population (65+)</b>	<b>67,941</b>	
People with one or more 'at risk' conditions (65+)	<b>35,030</b>	51.6%
People with two or more 'at risk' conditions (65+)	<b>19,488</b>	28.7%
People with no 'at risk' conditions (65+)	<b>32,911</b>	48.4%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS WARRINGTON CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS WARRINGTON CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>213,744</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>41,761</b>	19.5%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>17,731</b>	8.3%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>60,499</b>	28.3%
<b>Total Population (16-64)</b>	<b>137,272</b>	
People with one or more 'at risk' conditions (16-64)	<b>20,735</b>	15.1%
People with two or more 'at risk' conditions (16-64)	<b>6,244</b>	4.5%
<b>Total Population (65+)</b>	<b>38,415</b>	
People with one or more 'at risk' conditions (65+)	<b>19,677</b>	51.2%
People with two or more 'at risk' conditions (65+)	<b>11,245</b>	29.3%
People with no 'at risk' conditions (65+)	<b>18,738</b>	48.8%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS WEST ESSEX CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS WEST ESSEX CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>311,249</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>55,020</b>	17.7%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>22,162</b>	7.1%
People aged 65+ <b>or</b> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>83,937</b>	27.0%
<b>Total Population (16-64)</b>	<b>194,228</b>	
People with one or more 'at risk' conditions (16-64)	<b>25,511</b>	13.1%
People with two or more 'at risk' conditions (16-64)	<b>6,897</b>	3.6%
<b>Total Population (65+)</b>	<b>56,313</b>	
People with one or more 'at risk' conditions (65+)	<b>27,396</b>	48.6%
People with two or more 'at risk' conditions (65+)	<b>14,871</b>	26.4%
People with no 'at risk' conditions (65+)	<b>28,917</b>	51.4%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS WEST LANCASHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b>
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	Cancer, having Chemotherapy
Cerebral Palsy	Multiple Sclerosis	Blood and Bone Marrow Cancer
Cerebrovascular Disease	Obesity	Bone Marrow and Stem Cell Transplants
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	Downs Syndrome
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	Organ Transplants
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	Rare Diseases
COPD	Parkinson's Disease	Rheumatoid Arthritis
Coronary Heart Disease	Peripheral Vascular Disease	Sarcoidosis
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	Sickle Cell Disease
Dementia	Serious Mental Illness	Spleen Problems (inc. Splenectomy)
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS WEST LANCASHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>110,228</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>22,450</b>	20.4%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>9,366</b>	8.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>33,847</b>	30.7%
<b>Total Population (16-64)</b>	<b>69,342</b>	
People with one or more 'at risk' conditions (16-64)	<b>10,318</b>	14.9%
People with two or more 'at risk' conditions (16-64)	<b>2,984</b>	4.3%
<b>Total Population (65+)</b>	<b>22,783</b>	
People with one or more 'at risk' conditions (65+)	<b>11,386</b>	50.0%
People with two or more 'at risk' conditions (65+)	<b>6,266</b>	27.5%
People with no 'at risk' conditions (65+)	<b>11,397</b>	50.0%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS WEST LEICESTERSHIRE CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS WEST LEICESTERSHIRE CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>402,100</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>71,209</b>	17.7%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>27,944</b>	6.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>112,238</b>	27.9%
<b>Total Population (16-64)</b>	<b>258,918</b>	
People with one or more 'at risk' conditions (16-64)	<b>33,871</b>	13.1%
People with two or more 'at risk' conditions (16-64)	<b>8,884</b>	3.4%
<b>Total Population (65+)</b>	<b>76,383</b>	
People with one or more 'at risk' conditions (65+)	<b>35,354</b>	46.3%
People with two or more 'at risk' conditions (65+)	<b>18,595</b>	24.3%
People with no 'at risk' conditions (65+)	<b>41,029</b>	53.7%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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**DRAFT**

NHS WEST LEICESTERSHIRE CCG

# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS WEST SUFFOLK CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS WEST SUFFOLK CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>254,280</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>52,930</b>	20.8%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>21,725</b>	8.5%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>82,770</b>	32.6%
<b>Total Population (16-64)</b>	<b>154,502</b>	
People with one or more 'at risk' conditions (16-64)	<b>22,500</b>	14.6%
People with two or more 'at risk' conditions (16-64)	<b>6,146</b>	4.0%
<b>Total Population (65+)</b>	<b>58,115</b>	
People with one or more 'at risk' conditions (65+)	<b>28,275</b>	48.7%
People with two or more 'at risk' conditions (65+)	<b>15,222</b>	26.2%
People with no 'at risk' conditions (65+)	<b>29,840</b>	51.3%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS WEST SUSSEX CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS WEST SUSSEX CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>904,038</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>176,444</b>	19.5%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>72,173</b>	8.0%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>280,667</b>	31.0%
<b>Total Population (16-64)</b>	<b>550,105</b>	
People with one or more 'at risk' conditions (16-64)	<b>74,313</b>	13.5%
People with two or more 'at risk' conditions (16-64)	<b>19,952</b>	3.6%
<b>Total Population (65+)</b>	<b>201,673</b>	
People with one or more 'at risk' conditions (65+)	<b>97,450</b>	48.3%
People with two or more 'at risk' conditions (65+)	<b>51,333</b>	25.5%
People with no 'at risk' conditions (65+)	<b>104,223</b>	51.7%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

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<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

<https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS WIGAN BOROUGH CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS WIGAN BOROUGH CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>322,862</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>69,449</b>	21.5%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>28,792</b>	8.9%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>97,536</b>	30.2%
<b>Total Population (16-64)</b>	<b>204,777</b>	
People with one or more 'at risk' conditions (16-64)	<b>35,711</b>	17.4%
People with two or more 'at risk' conditions (16-64)	<b>10,817</b>	5.3%
<b>Total Population (65+)</b>	<b>59,721</b>	
People with one or more 'at risk' conditions (65+)	<b>31,634</b>	53.0%
People with two or more 'at risk' conditions (65+)	<b>17,564</b>	29.4%
People with no 'at risk' conditions (65+)	<b>28,087</b>	47.0%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021. <https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a>



# DRAFT - Estimated 'vulnerable' populations 'at risk' of severe illness from COVID-19, in the National Commissioning Data Repository (NCDR) England- as at 30<sup>th</sup> June 2021

## NHS WIRRAL CCG

Analysis derived from 'Bridges to Health' Segmentation Data Model 2.1\_20210630 (Outcomes Based Healthcare), applied to NCDR datasets (NHSE and AGEM CSU) <sup>1,2,3</sup>

'AT RISK' CONDITIONS <sup>4</sup>		
Atrial Fibrillation	Heart Failure	<b>Immunocompromised:</b> Cancer, having Chemotherapy Blood and Bone Marrow Cancer Bone Marrow and Stem Cell Transplants Downs Syndrome Organ Transplants Rare Diseases Rheumatoid Arthritis Sarcoidosis Sickle Cell Disease Spleen Problems (inc. Splenectomy)
Bronchiectasis	Learning Disability (inc. Down's Syndrome)	
Cerebral Palsy	Multiple Sclerosis	
Cerebrovascular Disease	Obesity	
Chronic Kidney Disease (inc. Renal Failure)	Other Chronic Neurological Diseases	
Chronic Liver Disease (inc. Liver Failure)	Other Chronic Respiratory Diseases	
Congenital Heart Disease	Other Neurological Organ Failure (MND, PSP & Huntington's)	
COPD	Parkinson's Disease	
Coronary Heart Disease	Peripheral Vascular Disease	
Cystic Fibrosis	Pulmonary Heart Disease (inc. Pulmonary Embolism)	
Dementia	Serious Mental Illness	
Diabetes	Severe Asthma	
Epilepsy	Severe Interstitial Lung Disease	

NHS WIRRAL CCG		
GROUP	NUMBER OF PEOPLE	% OF AGE GROUP POPULATION
<b>Total Population (all ages)</b>	<b>326,945</b>	
People with one or more 'at risk' conditions (all ages) <i>i.e. core clinically vulnerable group</i>	<b>77,067</b>	23.6%
People with two or more 'at risk' conditions (all ages) <i>i.e. multimorbid clinically vulnerable group</i>	<b>33,447</b>	10.2%
People aged 65+ <u>or</u> with one or more 'at risk' conditions (all ages) <i>i.e. older and/or clinically vulnerable group</i>	<b>109,182</b>	33.4%
<b>Total Population (16-64)</b>	<b>201,190</b>	
People with one or more 'at risk' conditions (16-64)	<b>38,469</b>	19.1%
People with two or more 'at risk' conditions (16-64)	<b>12,145</b>	6.0%
<b>Total Population (65+)</b>	<b>68,487</b>	
People with one or more 'at risk' conditions (65+)	<b>36,372</b>	53.1%
People with two or more 'at risk' conditions (65+)	<b>20,907</b>	30.5%
People with no 'at risk' conditions (65+)	<b>32,115</b>	46.9%

### Notes

This is a cross-sectional analysis as at 30<sup>th</sup> June 2021, including all people alive and registered to a GP practice in England on that date.

Categorisation, inclusion and exclusion of specific conditions is derived from: JCVI prioritisation Cohort 6<sup>3</sup>, where those conditions are currently available in the national datasets and data model.

### References

<sup>1</sup> Lynn J, Straube BM, Bell KM, Jencks SF. et al. Using population segmentation to provide better health for all: the 'Bridges to Health' model. The Milbank Quarterly 2007; 85(2): 185-208.

<sup>2</sup> Outcomes Based Healthcare. Segmentation Analytics. Accessed 20 October 2021. <https://outcomesbasedhealthcare.com/segmentation-analytics/>

<sup>3</sup> NHS England. NCDR Reference Library – Databases. Accessed 20 October 2021. <https://data.england.nhs.uk/ncdr/database/>

<sup>4</sup> Joint Committee of Vaccination and Immunisation (JCVI) conditions for Cohort 6 - Table 3 within: PHE. COVID-19: the green book, chapter 14a. Accessed 20 October 2021.

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