# LINCOLN HEALTH PCN PROFILE 2022

# 

## Highlights

#### Patient Demographics

Lincoln Health has a population of 38,768. The expected growth by 2035 is 6.2%.

#### **Deprivation**

18.2% of the population are in the most deprived quintile.

#### <u>Mortality</u>

Lincoln Health has lower life expectancy (81.0 years) than Lincolnshire (81.6 years).

Premature mortality is higher in Lincoln Health (435 per 100k) than Lincolnshire (325.6 per 100k).

#### Wider Determinants

Crime rates in Lincoln Health (14,424 per 100k) are higher than Lincolnshire (8,740 per 100k). The proportion of Unemployed (3.7%) is lower than Lincolnshire (4.2%).

<u>Note:</u> Portland Medical Practice, Newark Road Surgery, The Witham Practice and University Health Centre have merged to become Heart of Lincoln Medical Group.

# PCN Boundary1



#### Contents

Patient Demographics Deprivation Burden of Disease Disease Prevalence Hospital Admissions – Inequalities Mortality Prescribing Access to Services Wider Determinants of Health

# For further information please contact: <u>PH\_Intelligence@lincolnshire.gov.uk</u>

#### <u>Notes</u>

Primary Care Network (PCN) boundaries are for mapping/visual purposes only and do not represent the known contractual boundaries of PCN practices.

PCN boundaries were generated from practice patient registers, and geographical areas were then assigned to each PCN based on the greatest percentage of patients resident in that area. It should be noted that some patients registered to a specific PCN are likely to reside outside of the defined boundaries in this map.

<sup>1</sup> PCN boundary generated from practice patient registers with geographical areas then assigned to each PCN based on the greatest percentage of patients resident in that area. It should be noted that some patients registered to a specific PCN are likely to reside outside of the defined boundaries in this map.

<sup>2</sup> GP Practice Coverage <u>Lincolnshire Primary Care Network Alliance</u>

### Public Health Intelligence

# PATIENT DEMOGRAPHICS

Registered Patients by Practice and Age Category

Practice	Children & Young People		Worki	ng Age	Older	Total Patients	
Brayford Medical Practice	1,837	20.1%	6,464	70.6%	849	9.3%	9,150
Heart Of Lincoln Medical Group	5,742	19.4%	20,917	70.6%	2,959	10.0%	29,618
Lincoln Health Partnership	7,579	19.5%	27,381	70.6%	3,808	9.8%	38,768
Lincolnshire	166,329	20.6%	454,698	56.2%	187,968	23.2%	808,995

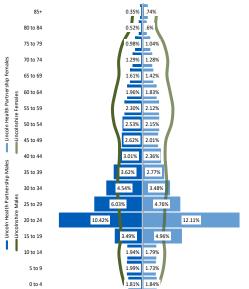
#### **REGISTERED PATIENTS**

- The population of Lincoln Health has a lower proportion of Children and Young People than Lincolnshire. A difference of 1.0%.
- The population of Lincoln Health has a lower proportion of Older People than Lincolnshire. A difference of -13.4%.
- The highest proportion of males in Lincoln Health are aged 20 to 24.
- The highest proportion of females in Lincoln Health are aged 20 to 24.

#### PROJECTED LIST SIZE GROWTH

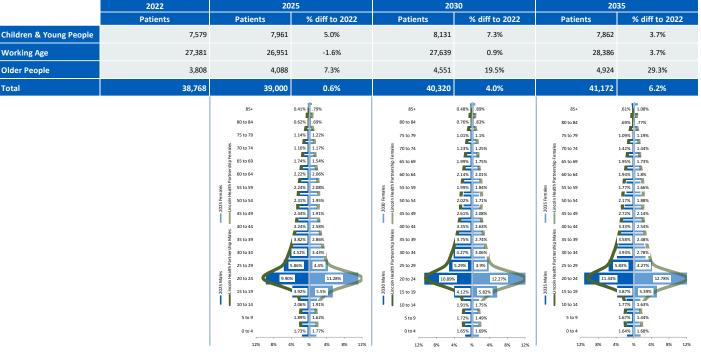
- Lincoln Health population will increase from 38,768 to 41,172 by 2035. An increase of 6.2%.
- The Lincoln Health older people population (65+) will increase from 3,808 to 4,924 by 2035. An increase of 29.3%.
- Over 85s will increase from 422 to 695 by 2035. An increase of 64.6%.

#### Projected Patient List Size Growth at 2025, 2030 & 2035



**Registered Patients by Age Group** 

12% 8% 4% % 4% 8% 12%



<u>Source</u>

NHS Digital – Patients Registered at a GP Practice March 2022 ONS – Population Projections 2022

# PATIENT DEMOGRAPHICS

Experian Mosaic population segmentation analysis allows for the PCN population to be divided into groups by their individual characteristics. Grouping different people into different segments gives a greater understanding and flexibility when trying to engage with patients.

Population Segmentation Group	PCN Coverage %	Key Features	Communicatio	on Preferences
	70		✓	X
Rental Hubs	56.0	- Aged 18-35 - Private renting - Singles and sharers - Urban locations - Young neighbourhoods - High use of smartphones	- SMS - Mobile - Email	- Post - Landline
Transient Renters	25.0	<ul> <li>Private renters</li> <li>Low length of residence</li> <li>Low cost housing</li> <li>Singles and sharers</li> <li>Older terraces</li> </ul>	- SMS - Mobile	- Post - Landline
Aspiring Homemakers	4.7	<ul> <li>Younger households</li> <li>Full-time employment</li> <li>Private suburbs</li> <li>Affordable housing costs</li> <li>Starter salaries</li> </ul>	- Email	- Landline
Vintage Value	4.1	- Elderly - Living alone - Low income - Small houses and flats - Need support - Low technology use	- Landline - Post - Prefer not to be contacted	- SMS - Email
Domestic Success	2.6	<ul> <li>Families with children</li> <li>Upmarket suburban homes</li> <li>Owned with a mortgage</li> <li>High Internet use</li> <li>Own new technology</li> </ul>	- SMS - Email	- Mobile - Landline
Penetration	92.4%	Shows the proportion of the comparison ar Mosaic group.	ea that is made up of your are	a's population for each

#### SOCIO-ECONOMIC SEGMENTATION

- Over half of Lincoln Health are classified as Rental Hubs.
- Email is a preferred communication method for 63% of the population.
- 3% of the population prefer not to be contacted via mobile phone.

#### <u>Notes</u>

For the purposes of this analysis patients assigned to a PCN were aggregated at LSOA and the predominant segmentation group for the given LSOA was assigned to all patients in that geographical **area**.

#### <u>Source</u>

Experian Mosaic

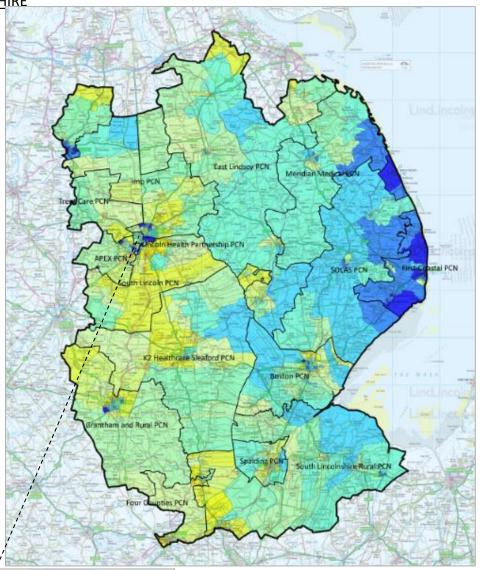
# DEPRIVATION

#### **OVERALL DEPRIVATION - LINCOLNSHIRE**

The English Indices of Deprivation (IMD) measure relative levels of deprivation in 32,844 small areas or neighborhoods, called Lower Super Output Areas (LSOA), in England. An LSOA is a small geographic area where the population is between 1,000 and 3,000. LSOA are ranked according to their level of deprivation

relative to that of other areas. High ranking LSOAs can be referred to as the most deprived. The Indices of Deprivation measure deprivation on a relative rather than an absolute scale. LSOA shaded dark blue are in the most deprived decile while areas shaded yellow are in the least deprived decile. Lincolnshire has 420 LSOA, 65 of the LSOA are in the 20% most deprived.

OVERALL DEPRIVATION LINCOLN HEALTH PARTNERSHIP



1 of the 11 LSOA in Lincoln Health Partnership are in the 20% most deprived.

Overall Deprivation by Decile

1	6
2	7
3	8
4	9
5	10

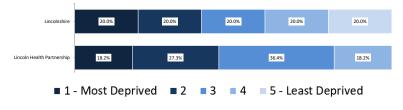
<u>Source</u> English Indices of Deprivation 2019

# DEPRIVATION

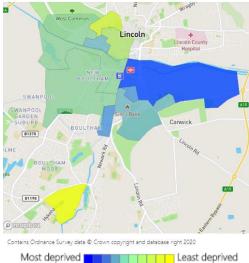
#### **OVERALL DEPRIVATION**

The main IMD summary measure is a weighted average of the seven IMD domains: Income Deprivation, Employment Deprivation, Health Deprivation and Disability, Education Skills and Training Deprivation, Barriers to Housing and Services, Living Environment Deprivation, and Crime. The more deprived an area is, the higher the IMD score but the lower the rank.

% of LSOAs by Quintile of Deprivation Lincoln Health PCN, 2019



IMD 2019 - Local PCN Deciles

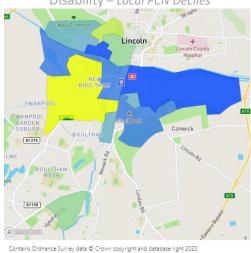


#### HEALTH DEPRIVATION & DISABILITY

The Health Deprivation and Disability Domain measures the risk of premature death and the impairment of quality of life through poor physical or mental health. The domain measures morbidity, disability and premature mortality but not aspects of behaviour or environment that may be predictive of future health deprivation.

- Years of potential life lost: An age and sex standardised measure of premature death
- Comparative illness and disability ratio: An age and sex standardised morbidity/disability ratio
- Acute morbidity: An age and sex standardised rate of emergency admission to hospital
- Mood and anxiety disorders: A composite based on the rate of adults suffering from mood and anxiety disorders, hospital episodes data and suicide mortality data.

IMD 2019: Health Deprivation and Disability – *Local PCN Deciles* 



Most deprived

#### <u>Notes</u>

It should be noted that areas highlighted on this map (and subsequent maps showing deprivation) having higher or lower deprivation are calculated based on the LSOAs within the PCN boundary only. Therefore an area highlighted as having high deprivation on this map may not have high deprivation when compared to the rest of Lincolnshire or the national index.

LCC,2019, Contains National Statistics data © OS CrownCopyright ©

<u>Source</u> English Indices of Deprivation 2019

# DEPRIVATION

#### **INCOME DEPRIVATION AFFECTING CHILDREN**

The Income Deprivation Affecting Children Domain shows the proportion of children aged 0-15 years in each LSOA that live in families that are income deprived; those that are in receipt of Income Support, income-based Jobseeker's Allowance, Universal Credit (where no adult is in 'Working – no requirements' conditionality regime), Pension Credit Guarantee or Child Tax Credit below a given threshold. The equivalised income (excluding housing benefits) is below 60% of the national median before housing costs.

#### INCOME DEPRIVATION AFFECTING OLDER PEOPLE

The Income Deprivation Affecting Older People Domain shows the proportion of older people aged 60 and over that are experiencing deprivation due to low income. This is based on the percentage of the population aged 60 and over who receive income support, income based job seekers allowance, pension credit or child tax credit claimants aged 60 and over and their partners (if also aged 60 or over).

#### BARRIERS TO HOUSING AND SERVICES

The Barriers to Housing and Services Domain measures the physical and financial accessibility of housing and local services. The indicators fall into two sub-domains: 'geographical barriers', which relate to the physical proximity of local services, and 'wider barriers' which include issues relating to access to housing such as affordability. Geographical Barriers sub-domain

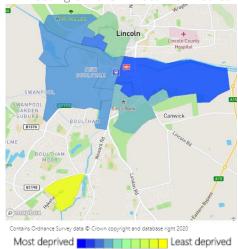
• Road distance to a post office

- Road distance to a primary school
- Road distance to a general store or supermarket
- Road distance to a GP surgery.

Wider Barriers sub-domain

- Household overcrowding: The proportion of all households in a Lower-layer Super Output Area which are judged to have insufficient space to meet the household's needs
- Homelessness: Local Authority District level rate of acceptances for housing assistance under the homelessness provisions of the 1996 Housing Act, assigned to the constituent LSOA
- Housing affordability: Difficulty of access to owner-occupation or the private rental market, expressed as the inability to afford to enter owner occupation or the private rental market.

IMD 2019: Income Deprivation Affecting Children – *Local PCN Deciles* 



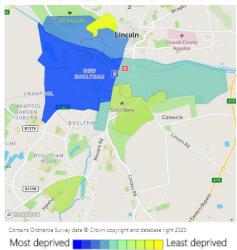
IMD 2019: Income Deprivation Affecting



Most deprived Least deprived

IMD 2019: Barriers to Housing and

Services – Local PCN Deciles



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#### <u>Source</u> English Indices of Deprivation 2019

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# **BURDEN OF DISEASE**

#### GLOBAL BURDEN OF DISEASE STUDY

The GBD was created in 1991 and is devised through epidemiological research. The aim is to produce measurable and comparable health outcome data, known as Disability Adjusted Life Years (DALYs). DALYs are calculated by adding together the number of years lost due to premature mortality (YLL) and the number of years lived with a disability (YLD), using a standard life expectancy age, in this instance derived from Japanese life expectancy.

In 2016, local authority data for GBD was introduced, making it possible to compare Lincolnshire nationally and globally. The data in this report is from the most recent iteration in 2019.



The biggest killers in Lincolnshire are Ischaemic Heart Disease, Lung Cancer, Stroke, and COPD. When it comes to Years Lived with Disability the picture is very different. Low Back Pain, Diabetes and Depressive Disorders are the top three causes.

When premature mortality and disability data are combined to compare the overall burden of disease, the greatest single burden in Lincolnshire is Ischaemic Heart Disease, and second is COPD.

# **BURDEN OF DISEASE**

#### Top 10 Years Lived with Disability\* for Males, Females and Persons

FEMALES

Number of

.....

MALES		
	Rate**	Number of Years
1. Low Back Pain	1057.8	209.2
2. Depressive Disorders	739.9	146.4
3. Diabetes	692.9	137.1
4. Drug Use Disorders	604.1	119.5
5. Alcohol Use Disorders	589.7	116.6
6. Headache Disorders	555.7	109.9
7. Neck Pain	439.0	86.8
8. Falls	412.2	81.5
9. Anxiety Disorders	369.9	73.2
10. Other Musculoskeletal Disorders	347.4	68.7

	Rate**	Years	
1. Low Back Pain	1404.4	266.7	1
2. Headache Disorders	1112.6	211.3	2
3. Depressive Disorders	997.2	189.4	3
4. Gynecological Diseases	989.0	187.8	4
5. Anxiety Disorders	594.7	112.9	5
6. Neck Pain	557.6	105.9	e
7. Diabetes	492.4	93.5	7
8. Asthma	478.6	90.9	٤
9. Other Musculoskeletal Disorders	461.2	87.6	9
10. Falls	440.4	83.6	1

PERSONS		
	Rate**	Number o Years
1. Low Back Pain	1239.4	480.5
2. Depressive Disorders	870.9	337.6
3. Headache Disorders	843.3	326.9
4. Diabetes	585.4	227.0
5. Gynecological Diseases	522.4	202.5
6. Neck Pain	501.0	194.2
7. Anxiety Disorders	483.9	187.6
8. Drug Use Disorders	452.4	175.4
9. Falls	424.7	164.6
10. Other Musculoskeletal Disorders	409.5	158.7

#### Top 10 Years of Life Lost\* for Males, Females and Persons

	MALES			FEMALES		PERSONS					
		Rate**	Number of Years		Rate**	Number of Years		Rate**	Number of Years		
	1. Ischaemic Heart Disease	1868.4	369.6	1. Ischaemic Heart Disease	831.9	158.0	1. Ischaemic Heart Disease	1322.3	512.6		
	2. Tracheal, Bronchus, And Lung Cancer	818.1	161.8	2. Breast Cancer	569.6	108.1	2. Tracheal, Bronchus, And Lung Cancer	676.1	262.1		
	3. Self-Harm	687.0	135.9	3. Stroke	557.8	105.9	3. Stroke	543.6	210.7		
	4. Chronic Obstructive Pulmonary Disease	554.7	109.7	4. Tracheal, Bronchus, And Lung Cancer	539.9	102.5	4. Chronic Obstructive Pulmonary Disease	509.7	197.6		
:	5. Road Injuries	551.7	109.1	5. Chronic Obstructive Pulmonary Disease	464.4	88.2	5. Self-Harm	424.2	164.4		
	6. Stroke	536.2	106.1	6. Lower Respiratory Infections	365.5	69.4	6. Colon And Rectum Cancer	380.0	147.3		
	7. Colon And Rectum Cancer	455.0	90.0	7. Colon And Rectum Cancer	310.2	58.9	7. Lower Respiratory Infections	368.2	142.7		
	8. Prostate Cancer	399.4	79.0	8. Alzheimers Disease And Other Dementias	302.2	57.4	8. Road Injuries	349.6	135.6		
	9. Lower Respiratory Infections	373.8	73.9	9. Ovarian Cancer	210.1	39.9	9. Breast Cancer	303.3	117.6		
	10. Cirrhosis And Other Chronic Liver Diseases	342.5	67.7	10. Pancreatic Cancer	189.0	35.9	10. Cirrhosis And Other Chronic Liver Diseases	259.8	100.7		

#### Top 10 Disability Adjusted Life Years\* for Males, Females and Persons

	MALES	MALES				PERSONS			
		Rate**	Number of Years		Rate**	Number of Years		Rate**	Number of Years
	1. Ischaemic Heart Disease	1923.6	380.5	1. Low Back Pain	1404.4	266.7	1. Ischaemic Heart Disease	1368.0	530.3
	2. Low Back Pain	1057.8	209.2	2. Headache Disorders	1112.6	211.3	2. Low Back Pain	1239.4	480.5
	3. Drug Use Disorders	875.7	173.2	3. Depressive Disorders	997.2	189.4	3. Depressive Disorders	870.9	337.6
	4. Tracheal, Bronchus, And Lung Cancer	830.2	164.2	4. Gynecological Diseases	990.9	188.2	4. Headache Disorders	843.3	326.9
	5. Diabetes Mellitus	814.5	161.1	5. Ischaemic Heart Disease	868.7	165.0	5. Chronic Obstructive Pulmonary Disease	758.3	294.0
5	6. Chronic Obstructive Pulmonary Disease	809.3	160.1	6. Chronic Obstructive Pulmonary Disease	707.9	134.4	6. Diabetes Mellitus	689.5	267.3
	7. Depressive Disorders	739.9	146.4	7. Stroke	670.2	127.3	7. Tracheal, Bronchus, And Lung Cancer	686.1	266.0
	8. Self-Harm	697.8	138.0	8. Breast Cancer	638.7	121.3	8. Stroke	638.7	247.6
	9. Alcohol Use Disorders	671.1	132.8	9. Anxiety Disorders	594.7	112.9	9. Drug Use Disorders	619.3	240.1
	10. Road Injuries	646.5	127.9	10. Diabetes Mellitus	581.2	110.4	10. Falls	530.7	205.8

#### <u>Notes</u>

Years lived with disability (YLDs) are defined as years of life lived with any short-term or long-term health loss.

Disability adjusted life years (DALYs) equal the sum of years of life lost (YLLs) and years lived with disability (YLDs). One DALY equals one lost year of healthy life

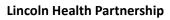
\* Calculated using the level 3 categorisation of health conditions from the GBD methodology. For more information see - <u>GBD Compare</u> \*\* rate per 100,000

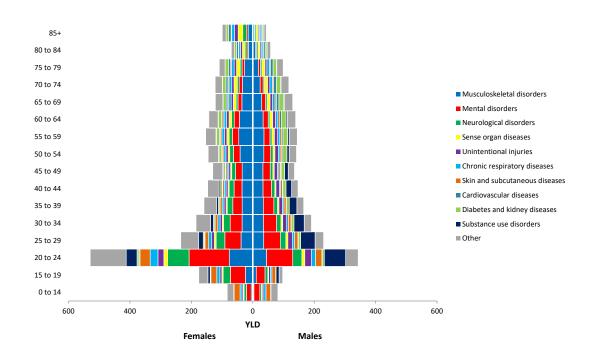
DALYs

**VLD** 

# GBD-YEARS LIVED WITH DISABILITY

Contributing conditions to Years Lived with Disability\* for Males, Females and Persons





Contributing conditions to Years Lived Disability\* by sex and age

	Musculoskele	tal Disorders	Mental D	Disorders	Neurologica	al Disorders	Sense Orga	in Diseases	Unintention	nal Injuries	Chronic Re Disea		Skin and Su Dise		Cardiovascu	lar Diseases	Diabetes a Dise		Substance U	se Disorders
	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females
0 to 14	3.84	5.15	19.04	15.37	5.64	7.57	2.64	2.78	4.88	4.26	7.05	6.41	15.14	19.48	0.30	0.37	0.41	0.33	0.24	0.15
15 to 19	11.28	24.01	28.67	48.88	9.13	23.60	2.62	4.20	5.81	6.67	4.96	10.00	12.24	19.17	0.36	1.05	0.82	1.08	10.06	7.53
20 to 24	45.09	76.51	85.19	131.20	29.68	69.55	9.44	12.37	21.41	19.25	13.49	25.41	20.94	33.38	1.32	3.16	6.54	6.07	69.51	35.36
25 to 29	35.52	38.43	54.10	52.60	18.18	28.36	6.31	5.45	14.81	8.90	7.41	10.01	10.96	12.02	1.10	1.77	7.67	3.94	47.19	14.57
30 to 34	34.76	34.98	42.86	38.47	14.42	21.21	5.32	4.46	13.07	7.59	5.64	7.40	8.40	8.45	0.95	1.27	8.75	4.13	33.29	9.18
35 to 39	34.31	34.40	34.25	30.80	12.28	17.93	4.29	3.85	11.81	6.76	4.71	6.07	6.83	6.35	0.99	1.05	9.54	4.60	24.98	6.50
40 to 44	33.36	35.08	27.78	25.97	10.58	16.04	3.76	3.59	10.83	6.40	4.39	5.67	5.82	5.06	1.50	1.73	10.34	5.36	18.47	4.84
45 to 49	33.17	34.59	23.69	21.38	8.75	12.60	4.27	3.65	10.30	6.05	4.99	5.70	5.23	4.13	2.01	1.57	11.52	6.13	11.48	3.02
50 to 54	35.99	41.51	22.40	21.50	7.78	11.97	5.90	5.18	10.84	7.29	6.13	7.10	5.36	4.49	3.22	2.16	13.82	8.44	7.02	2.16
55 to 59	36.41	45.77	19.86	20.70	6.62	10.63	7.77	7.26	10.54	8.15	6.87	8.14	5.28	4.63	4.89	3.11	15.27	10.18	5.08	1.56
60 to 64	33.77	43.13	16.49	17.24	5.55	8.46	8.86	8.47	9.61	8.00	7.23	8.13	4.91	4.15	6.63	4.10	15.63	10.51	3.71	1.04
65 to 69	29.12	35.63	12.85	12.69	4.74	6.30	9.42	8.67	8.38	7.08	8.19	7.95	4.44	3.43	8.02	4.89	15.04	10.13	2.34	0.65
70 to 74	24.13	33.52	9.63	10.77	4.65	6.24	9.80	10.51	7.24	7.59	8.77	8.96	3.90	3.30	8.93	6.59	13.73	11.40	1.36	0.49
75 to 79	18.33	26.72	6.75	8.07	4.91	6.42	9.67	11.68	6.24	7.84	8.59	8.77	3.10	2.74	8.59	7.32	11.25	10.41	0.81	0.36
80 to 84	9.35	14.35	3.30	4.30	4.43	6.19	6.46	8.86	3.99	6.11	5.57	5.87	1.70	1.62	5.43	5.37	6.24	6.37	0.35	0.20
85+	5.63	14.79	2.04	4.87	4.56	12.94	5.98	15.15	3.62	11.55	4.88	9.35	1.20	2.12	4.08	7.92	4.39	8.04	0.25	0.30

#### **BURDEN OF DISEASE IN LINCOLN HEALTH PCN**

- There are 4,901 Years Lived with Disability (YLD) per year amongst patients registered to Lincoln Health GP Practices.
- Musculoskeletal Disorders are the leading cause of YLD making 20% of all YLD.
- YLD due to Musculoskeletal Disorders are higher amongst females across the life course.
- YLD due to Substance Use are higher in males, particularly between the ages of 15 and 50.

<u>Notes</u>

Years lived with disability (YLDs) are defined as years of life lived with any short-term or long-term health loss.

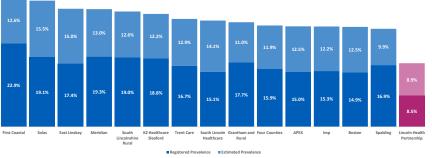
Disability adjusted life years (DALYs) equal the sum of years of life lost (YLLs) and years lived with disability (YLDs). One DALY equals one lost year of healthy life

\* Calculated using the level 2 categorisation of health conditions from the GBD methodology. For more information see - <u>GBD Compare</u> Source

# **DISEASE PREVALENCE & DIAGNOSIS**

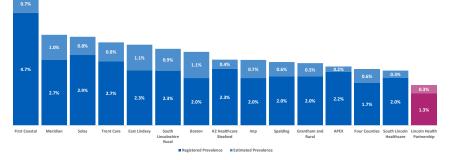
	Portland Medical Practice	Brayford Medical Practice	University Health Centre	Newark Road Surgery	Lincoln Health Partnership	Lincolnshire	England
2019 Deprivation Score	29.5	23.6	21.2	18.4	23.2	21.7	21.7
Diabetes Prevalence 17+	5.9	5.4	0.4	7.6	4.3	7.9	7.1
Asthma Prevalence 6+	4.2	5.3	3.8	7.6	5.0	7.1	6.4
COPD Prevalence	1.8	1.5	0.0	2.3	1.3	2.3	1.9
Cancer Prevalence	1.9	2.2	0.1	3.7	1.8	4.0	3.2
Osteoporosis Prevalence 50+	0.2	1.0	0.0	0.1	0.4	0.8	0.8
Rheumatoid Arthritis Prevalence 16+	0.5	0.5	0.0	0.9	0.4	0.9	0.8
Long-Term MSK 16+	16.4	13.4	3.2	18.7	11.9	21.4	17.0
Dementia Prevalence	0.5	0.6	0.0	0.8	0.4	0.9	0.7
Depression 18+ Prevalance	9.1	14.0	10.6	17.0	12.0	13.3	12.3
Mental Health Prevalence	1.6	1.5	0.3	0.8	1.0	0.8	0.9
Atrial Fibrillation Prevalence	1.5	1.2	0.0	2.4	1.2	2.7	2.0
Heart Failure Prevalence	0.6	0.9	0.0	0.7	0.5	1.4	0.9
CHD Prevalence	2.2	1.9	0.0	3.8	1.8	4.1	3.0
Stroke Prevalence	1.2	1.0	0.0	2.2	1.0	2.3	1.8
PAD Prevalence	0.4	0.3	0.0	0.8	0.3	0.7	0.6
Hypertension Prevalence	10.2	8.5	0.2	18.5	8.5	17.0	13.9

#### Hypertension – Estimated Total Prevalence vs Actual Prevalence 2020/21

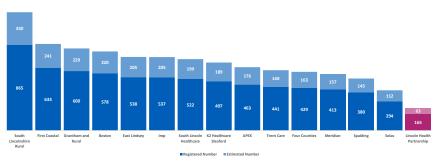


	Registered Prevalence	Estimated Undiagnosed Patients	Total Estimated Prevalence
Lincoln Health Partnership	3,254	3,464	6,718
Lincolnshire	135,444	99,982	235,426

COPD – Estimated Total Prevalence vs Actual Prevalence 2020/21



	Registered Prevalence	Estimated Undiagnosed Patients	Total Estimated Prevalence
Lincoln Health Partnership	504	132	636
Lincolnshire	18,419	5,619	24,038



	Registered Prevalence	Estimated Undiagnosed Patients	Total Estimated Prevalence
Lincoln Health Partnership	165	63	228
Lincolnshire	7,355	2,802	10,157

#### <u>Notes</u>

GP practices are sorted from most deprived to least deprived.

Dementia – Estimated based on a diagnosis rate of 61%

#### <u>Source</u>

NHS Digital Quality Outcomes Framework, 2020/21 OHID

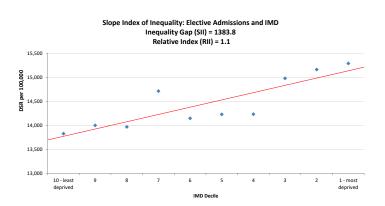
#### SLOPE INDEX OF INEQUALITY (SII) AND RELATIVE INDEX OF INEQUALITY (RII)

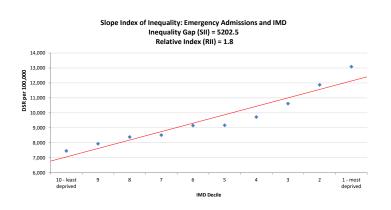
SII and RII are used to quantify the relative inequality gap

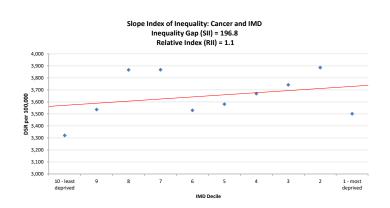
The SII is a measure of the difference between the most deprived and least deprived.

The RII is a measure of the ratio between the most deprived and least deprived.

The SII and RII are calculated using Lincolnshire Hospital Admissions data 2018/19 to 2020/21.



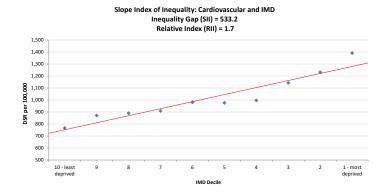


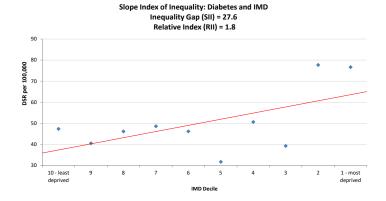


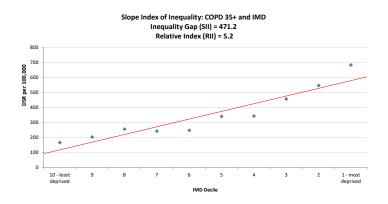
- Elective Admissions has an Inequality Gap of 1,383 admissions per 100k and a Relative Index of 1.1.
- Elective admissions are significantly lower in deciles 10 to 4 than deciles 3 to 1 with the exception of decile 7 which has an admission rate comparable to that of more deprived areas.
- Emergency Admissions has an Inequality Gap of 5,202 admissions per 100k and a Relative Index of 1.8.
- Emergency admissions in the most deprived decile significantly higher than all other deciles. The rate of admission increases more dramatically as deprivation increases; particularly between deprivation deciles 4 to 1.

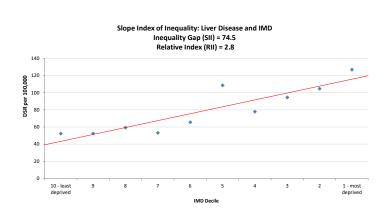
- Cancer has an Inequality Gap of 196 admissions per 100k and a Relative Index of 1.1.
- Cancer admissions by deprivation decile do not appear to follow strong linear pattern with most deprived decile having the second lowest rate of cancer admission.

# **ADMISSIONS - INEQUALITIES**









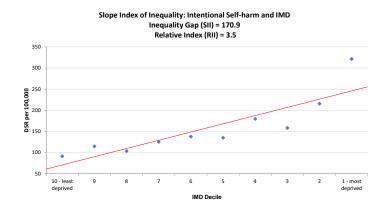
- Cardiovascular has an Inequality Gap of 533 admissions per 100k and a Relative Index of 1.7.
- Whilst the least deprived decile has significantly lower rates of CVD admissions than all other deciles, there are less defined differences between deciles 9 to 4.

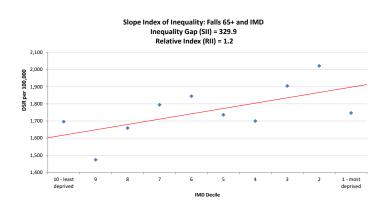
- Diabetes has an Inequality Gap of 27 admissions per 100k and a Relative Index of 1.8.
- Diabetes admission rates are not significantly different for deciles 3 to 10 (least deprived) whereas rates in the two most deprived deciles are significantly greater.
- COPD Aged 35+ has an Inequality Gap of 471 admissions per 100k and a Relative Index of 5.2.
- There is strong correlation between increased COPD admissions as deprivation increases.
   Similarly, those living in the least deprived 50% of the population are all have significantly lower COPD rates than those in the most deprived 50%.
- Liver Disease has an Inequality Gap of 74 admissions per 100k and a Relative Index of 2.8.
- Liver disease admissions in decile 5 are comparable to those of the more deprived decile.

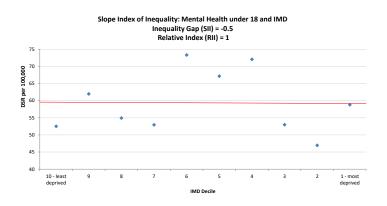
#### <u>Source</u>

Hospital Episode Statistics (HES) Contains Information from NHS Digital, licenced under the current version of the Open Government Licence ONS – Mid Year Estimates

# **ADMISSIONS - INEQUALITIES**







- Intentional Self Harm has an Inequality Gap of 170 and a Relative Index of 3.5.
- There is a decline in the rates from decile 4 to decile 3 and a spike in decile 1.

- Falls Aged 65+ has an Inequality Gap of 329 admissions per 100k and a Relative Index of 1.2.
- There were no significant differences between the admissions rates of deprivation deciles except for those living in decile 9.

- Mental Health Aged Under 18 has an Inequality Gap of -0.5 admissions per 100k and a Relative Index of 1.
- There were no detectable differences between admissions rates and deprivation.

# MORTALITY

#### Death Count, All Age All Cause, 2017-21\*

	2017	2018	2019	2020	2021	2017-2021
Apex	500	470	490	545	495	2,500
Boston	765	755	745	860	705	3,830
East Lindsey	605	675	675	725	625	3,305
First Coastal	855	815	845	1,020	905	4,440
Four Counties	445	455	460	490	495	2,345
Grantham and Rural	690	685	650	755	720	3,500
IMP	620	610	645	745	690	3,310
K2 Healthcare Sleaford	605	595	650	710	565	3,125
Lincoln Health Parnership	240	285	255	245	255	1,280
Meridian Medical	425	455	455	530	520	2,385
SOLAS	330	360	340	420	360	1,810
South Lincoln	535	540	550	620	460	2,705
South Lincolnshire Rural	1,030	1,105	1,060	1,095	1,020	5,310
Spalding	400	380	370	500	405	2,055
Trent Care Network	475	500	455	515	475	2,420
Lincolnshire	8,520	8,685	8,645	9,775	8,695	44,320

- Between 2017 and 2021 there were 1,280 deaths registered for patients of Lincoln Health, equivalent to 1315.1 deaths per 100,000 patients.
  - Lincoln Health ranks 2nd out of the 15 PCNs in Lincolnshire for premature mortality (where 1st is the highest); higher than the Lincolnshire rate of 325.6 per 100,000.
- Lincoln Health has one of the lower Life Expectancy rates at 81.0.
- Ischaemic Heart Disease is ranked 1<sup>st</sup> in the top five causes of death.

#### Lincolnshire 930.8 1,315.1 Lincoln Health Partnership First Coastal Trent Care Network Boston Apex 970.6

917.9

905.5

901.4

894.5

879.3

877.4

865.9

865.2

854.8

848.6

600

Top 5 Causes of Death PCN vs. Lincolnshire, 2017-2021

800

Mortality DSR per 100,000

1000

1200

400

All Age All Cause Mortality 2017-21

Spalding

IMP

South Lincoln

Four Counties

East Lindsey

SOLAS

0

200

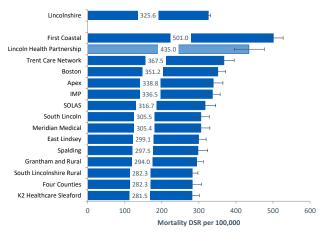
Meridian Medical

South Lincolnshire Rural

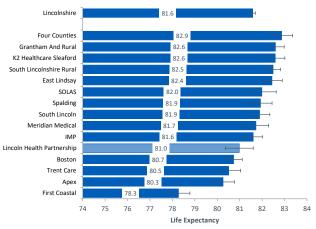
Grantham and Rural

K2 Healthcare Sleaford

Under 75 Mortality from All Causes 2017-21



#### Life Expectancy at Birth 2017-21\*\*





1 <sup>st</sup>	Intentional Self-Harm	Ischaemic Heart Diseases	Ischaemic Heart Diseases	Dementia	Ischaemic Heart Diseases
2 <sup>nd</sup>	Injuries To The Head	Lung Cancer	Digestive Cancer	Ischaemic Heart Diseases	Dementia
3 <sup>rd</sup>	Mesothelial And Soft Tissue Cancer	Digestive Cancer	Lung Cancer	Cerebrovascular Diseases	Digestive Cancer
4 <sup>th</sup>	Thyroid And Other Endocrine Cancer	Accidental Poisoning	Dementia		Cerebrovascular Diseases
5	Mental And Behavioural Disorders Due To Psychoactive Subst.	Liver Disease	Cerebrovascular Diseases	Digestive Cancer	Lung Cancer

#### Notes

\*All figures are rounded to 5

\*\* Life expectancy is calculated using a PHE tool

Life expectancy is a theoretical estimate of the average number of years from birth a person is expected to live. It is based on current death rates by age group

1400

#### <u>Source</u>

NHS Digital (2022), Primary Care Mortality Data – Civil Registration (non-publicly available)

# PRESCRIBING

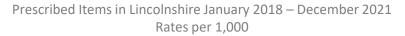
#### Prescribed Items January 2021 – December 2021

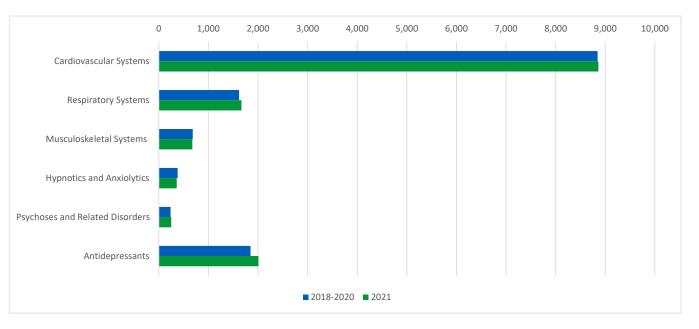
		Brayford Medical Practice	Heart Of Lincoln Medical Group	Lincoln Health Partnership	Lincolnshire
Cardiovascular	Number of Items	33,048	124,712	157,760	7,072,185
Systems	Rate per 1,000 population	3611.8	4210.7	4,069.34	8,741.9
Respiratory	Number of Items	9,748	26,391	36,139	1,334,441
Systems	Rate per 1,000 population	1065.4	891.0	932.19	1,649.5
Musculoskeletal	Number of Items	4,395	9,199	13,594	541,888
Systems	Rate per 1,000 population	480.3	310.6	350.7	669.8
Hypnotics and	Number of Items	7,120	8,965	16,085	288,543
Anxiolytics	Rate per 1,000 population	778.1	302.7	414.9	356.7
Psychoses and	Number of Items	6,296	9,002	15,298	199,958
Related Disorders	Rate per 1,000 population	688.1	303.9	394.6	247.2
A-++id	Number of Items	18,122	49,481	67,603	1,608,933
Antidepressants	Rate per 1,000 population	1,980.5	1,670.6	1,743.8	1,988.8

Worse than Lincolnshire

Better than Lincolnshire

- Lincoln Health has a lower rate (4,069.3) of Cardiovascular prescribed items than Lincolnshire (8,741.9).
- The rate of Musculoskeletal prescribed items (350.7) in Lincoln Health is lower than Lincolnshire (669.8).





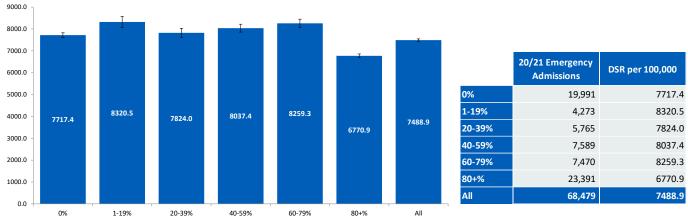
- The three-year average rate for prescribed antidepressants (1,849.7) in Lincolnshire is lower than the number prescribed throughout 2021 (2,007.4).
- For Hypnotics and Anxiolytics, the rate of prescribed items in 2021 (361.2) is lower than the three-year average (378.8).

#### <u>Notes</u>

Number of prescribed items for specific conditions and rates per 1,000 population. 2018-2020 is a calculated average for each prescribed item, compared to 2021

Open Prescribing

# ACCESS TO SERVICES



#### Proportion of Population in Lincolnshire who have access to a GP within 15 minutes

#### ACCESS TO SERVICES – LINCOLNSHIRE

The data for Lincolnshire was grouped into 20% bands with 0% as a band.

- 1% to 19% is the highest rate in Lincolnshire that can access a GP within 15 minutes.
- 80% to 100% is the lowest rate.

#### Access to Key Services 2019 - Lincoln Health

IMD Decile	GP - Public Tra	ansport/Walk	GP -	Car	Pharmacy - Car *2015		
	Number	Proportion	Number	Proportion	Number	Proportion	
1	8,735	100.0	8,735	100.0	8,735	100.0	
2	-	-	-	-	-	-	
3	4,832	94.8	5,094	100.0	5,094	100.0	
4	4,324	100.0	4,324	100.0	4,324	100.0	
5	15,038	86.8	17,017	98.3	17,039	98.4	
6	4,774	95.9	4,978	100.0	4,978	100.0	
7	1,635	44.6	3,668	100.0	3,668	100.0	
8	2,792	100.0	2,792	100.0	2,792	100.0	
9	-	-	-	-	-	-	
10	-	-	-	-	-	-	
Total Patients*	42,129	89.8	46,608	99.4	46,630	99.4	

#### ACCESS TO SERVICES - LINCOLN HEALTH

- 90% of Lincoln Health population are able to walk or take public transport to access their GP.
- 99% have access to a Pharmacy using a car.

# WIDER DETERMINANTS OF HEALTH

Economic activity	Portland Medical Practice	Brayford Medical Practice	University Health Centre	Newark Road Surgery	Lincoln Health Partnership	Lincolnshire	England
2019 Deprivation Score	29.5	23.6	21.2	18.4	23.2	21.7	21.7
% in paid work or in full-time education - 16+	67.8	67.3	92.7	65.2	75.0	56.7	56.7
% unemployed - 16+	4.9	6.2	1.8	2.0	3.7	4.2	5.5

Claima	nts	Lincoln Health Partnership	Lincolnshire
Claimant Count Aged 16-24	Number	125	2,685
Claimant Count Aged 10-24	Rate per 100,000 population	1,065.1	3,431.9
Claimant Count Aged 25-49	Number	485	9,445
Claimant Count Aged 23-45	Rate per 100,000 population	3,553.4	3,982.7
Claimant Count Aged 50+	Number	170	4,510
claimant count Aged 501	Rate per 100,000 population	1,930.1	1,249.9
Universal Credit Count Aged 16-24	Number	390	8,741
oniversal creat count Agea 10-24	Rate per 100,000 population	3,323.1	11,172.5
Universal Credit Count Aged 25-49	Number	1,577	39,360
Universal Credit Count Aged 25-45	Rate per 100,000 population	11,554.0	16,597.2
Universal Credit Count Aged 50+	Number	386	14,417
Universal Credit Count Aged 50+	Rate per 100,000 population	4,382.4	3,995.6
DLA Count Aged Under 5	Number	5	476
DLA Count Aged Under 5	Rate per 100,000 population	353.4	1,354.6
DLA Count Aged 5-10	Number	68	3,321
DLA Count Aged 5-10	Rate per 100,000 population	3,928.4	6,361.0
	Number	54	3,597
DLA Count Aged 11-15	Rate per 100,000 population	3,778.9	7,915.6
FCA Count Acad 40 D4	Number	12	238
ESA Count Aged 18-24	Rate per 100,000 population	106.9	388.0
FCA Count Acred 25 40	Number	241	7,655
ESA Count Aged 25-49	Rate per 100,000 population	1,765.7	3,227.9
	Number	280	11,042
ESA Count Aged 50+	Rate per 100,000 population	5,600.0	6,388.2
	Number	178	6,313
Pension Credits Count Aged 65-74	Rate per 100,000 population	8,195.2	6,489.9
	Number	149	7,533
Pension Credits Count Aged 75-84	Rate per 100,000 population	12,273.5	11,245.5
	Number	80	4,393
Pension Credits Count Aged 85+	Rate per 100,000 population	18.957.3	18,530.4

#### Children in low income families

Number of Children in Relative Low	Number	167	6,632
Income Aged 0-4	Rate per 100,000 population	11,802.1	18,873.6
Number of Children in Relative Low	Number	152	7,270
Income Aged 5-10	Rate per 100,000 population	8,781.1	13,924.8
Number of Children in Relative Low	Number	135	6,445
Income Aged 11-15	Rate per 100,000 population	9,447.2	14,182.9
Number of Children in Relative Low	Number	88	4,642
Income Aged 16-19	Rate per 100,000 population	2,929.4	13,840.6
Number of Children in Relative Low Income In Working Families	Number	373	16,515
Number of Children in Relative Low Income Not In Working Families	Number	178	8,253
Number of Children in Relative Low Income Ratio*	Ratio	25:12	3303:1651

Lincoln Health

Lincolnshire

Employment	type	Lincoln Health Partnership	Lincolnshire
Managers, Directors and Senior Officials	Number	709	36,499
Wanagers, Directors and Senior Orielais	Proportion	6.8%	10.9%
Professional Occupations	Number	1,362	43,806
rolessional occupations	Proportion	13.1%	13.1%
Associate Professional and Technical	Number	1,135	36,224
Occupations	Proportion	10.9%	10.8%
Administrative and Secretarial	Number	861	33,819
Occupations	Proportion	8.3%	10.1%
Skilled Trades Occupations	Number	871	44,421
Skilled Hades Occupations	Proportion	8.4%	13.3%
Caring, Leisure and Other Service	Number	879	34,116
Occupations	Proportion	8.5%	10.2%
Sales and Customer Service Occupations	Number	1,711	28,087
Sales and customer service occupations	Proportion	16.5%	8.4%
Processm Plant nad Machine Operatives	Number	982	34,320
	Proportion	9.5%	10.3%
Elementary Occupations	Number	1,865	42,843
Liemental, occupations	Proportion	18.0%	12.8%

Qualificat	Qualifications		Lincolnshire
No Qualifications	Number	2,799	154,691
No Qualifications	Proportion	14.5%	26.1%
5+ O Levels/CSE/GCSE <sup>1</sup>	Number	9,636	182,684
S+ O Levels/CSE/GCSE	Proportion	49.9%	30.9%
Degree <sup>2</sup>	Number	2,792	61,171
Degree	Proportion	14.5%	10.3%
NVQ Level 1	Number	1,789	53,041
NVQ LEVEL1	Proportion	9.3%	9.0%
NVQ Level 2	Number	3,068	102,391
NVQ Level 2	Proportion	15.9%	17.3%
NVQ Level 3	Number	2,550	72,772
NVQ LEVELS	Proportion	13.2%	12.3%
Professional Qualification	Number	1,642	78,252
Professional Qualification	Proportion	8.5%	13.2%

Crime		Lincoln Health Partnership	Lincolnshire
Anti-social behaviour	Number of Crimes	1,534	18,605
Anti-social behaviour	Rate per 100,000 population	3,957	2,311
Drugs	Number of Crimes	174	1,508
Diugs	Rate per 100,000 population	449	187
Public order	Number of Crimes	500	4,874
Public order	Rate per 100,000 population	1,290	605
Violence and sexual offences	Number of Crimes	1,548	23,416
violence and sexual oriences	Rate per 100,000 population	3,993	2,908
Total Number of Crimes	Number of Crimes	5,592	70,373
Total Number of Crimes	Rate per 100,000 population	14,424	8,740

#### <u>Notes</u>

15+ O level (Passes)/CSEs (Grade 1)/GCSEs (Grades A\*-C), School Certificate, 1 A level/2-3 AS levels/VCEs, Higher Diploma, Welsh Baccalaureate Intermediate Diploma

<sup>2</sup>Degree (for example BA, BSc), Higher degree (for example MA, PhD, PGCE)

#### <u>Source</u>

Economic Activity – GP Patient Survey 2021 Crime – Data.Police.UK 2021 Claimants - DWP - March 2022 Universal Credit - DWP - March 2022 DLA - DWP - November 2021 ESA - DWP - November 2021 Pension Credits - DWP - November 2021 *Children in RLI – DWP – 2020/21* Qualifications – Census 2011 Employment – Census 2011

1.1							(1,1,2,2,2)
Worse	than Linc	olnshire	Better than Lincolnshire				
Lower Perce	entile					High	er Percentile