



Hertfordshire and
West Essex Integrated
Care System



Hertfordshire and
West Essex
Integrated Care Board

Primary Care Networks Overview Pack

HODDESDON & BROXBOURNE PCN

Pack produced - January 2023 - NHS Hertfordshire & West Essex ICB

Produced by Hertfordshire & West Essex ICB's - Population Health Management & Public Health Teams



Working together
for a healthier future

Population Health Management



Population Health Management (PHM) is a partnership approach across the NHS and other public services including councils, the public, schools, fire service, voluntary sector, housing associations, social services and police. All have a role to play in addressing the interdependent issues that affect people's health and wellbeing.

The coronavirus (COVID-19) pandemic has further highlighted the known link between poorer health outcomes, ethnicity and deprivation. Integrated care systems, working with the local authority and the voluntary sector, have used PHM to identify people who need more support and those with the most complex needs within their localities, so that efforts can be targeted to protect certain populations through personalised care models, public health advice, testing and vaccination programmes.

For the public, it should mean that health and care services are more proactive in helping people to manage their health and wellbeing, provide more personalised care when it's needed and that local services are working together to offer a wider range of support closer to people's homes.

For doctors, nurses, social care, therapists and other frontline staff, this should mean greater support and insight from integrated care systems to enable care and support to be designed and proactively delivered to meet individual needs – it should mean less duplication and a reduction in workload pressures as it ensures the right care is given at the right time by the right person.

For local councils, health care managers and clinicians who commission services – greater understanding of the local population will ensure they can better predict what residents need. PCNs are key to this, as health and care providers work together and take collective responsibility for the care and support offered to improve outcomes, they can use their resources to keep people healthier.

Key Messages

Hoddesdon & Broxbourne PCN population profile differs compared to England especially in the age categories 20-44 which is lower and the age categories 15-19 and 50-90+ which is higher. The majority of people live within the 5 least deprived deciles (6-10). 29.5% population have at least 1 Long Term Condition. 6.2% have more than 5 LTCs compared to 5.6% for the ICB. The population pyramid shows a similar profile to England for those living with LTCs, except the age categories 70-90+ which is higher.

Wider determinants analysis from Public Health Evidence and Intelligence shows Hoddesdon & Broxbourne is at the mid-point of the deprivation scale for PCNs within the ICB across all indicators, except Housing and Services where it is one of the most deprived. Fuel Poverty is one of the least deprived in the ICB.

The spread of patients for Hoddesdon & Broxbourne PCN indicates 4.7% of the population are not located within the Hertfordshire & West Essex boundaries; this means that this population may be accessing services outside of the ICB and the impact of coterminous alignment with neighbouring ICBs must be taken into account for this population by the PCN.

Expected population growth for Broxbourne district by the Local Authority, forecasts continued increase between 2023 through to 2034 which will bring additional demands for healthcare. Projections show an expected increase in the number of people over 65 from ~18k to ~20k.

When analysing the underlying Segmentation Model data the conditions with highest per 1,000 registered prevalence that are highlighted for Hoddesdon & Broxbourne PCN are Cancer, Hypertension, Heart Disease, Atrial Fib, Chronic Cardiac Disease, Anxiety, MH and Obesity.

Urgent & Emergency Care in 2022/23 for Hoddesdon & Broxbourne PCN A&E Attendance rates per 1,000 population, is the lowest to the place rate.

When comparing the Ambulatory Care Sensitive rates per 1,000 population between places, the East & North place has the lowest rate in the ICB. Within East & North place, Hoddesdon & Broxbourne has the lowest rate per 1,000 population.

When looking at the ACS conditions for Hoddesdon & Broxbourne the highest volume and cost is within the End of Life, Frailty and Dementia in the over 65 age group and the next highest volume and cost is for the over 65 age group in the Advanced Disease and Complexity segment as well. It is to be noted that under End of Life, Frailty and Dementia and Advanced Disease and Complexity segments, there is a notable spread across 41-64 age group for volume and cost.

Ambulatory Care Sensitive conditions of note for people aged over 65 within the Advanced Disease and Complexity, is highlighted as AF and Flutter, Heart Failure and COPD, with the highest volume and cost. For those people aged over 65 within the End of Life, Frailty & Dementia segment, Heart Failure, COPD and AF and Flutter, is highlighted with the highest volume and cost.

14.8% of the general population in HWE ICB live within the 4 most deprived deciles, whilst 16.1% of the population in the EoL, severe frailty and severe dementia segment live within the 4 most deprived deciles.

In Hoddesdon & Broxbourne 10.8% of the population in the EoL, severe frailty and severe dementia segment live within the 4 most deprived deciles.

As we would expect the average number of acute and chronic conditions is significantly higher within this segment than the general population as are all activity measures. The average number of Chronic Conditions for people within Hoddesdon & Broxbourne PCN is lower than the ICB, and the data shows higher usage of GP services.

Within this segment we can see the presence of Obesity, Chronic Cardiac Disease, Diabetes, Stroke and Heart Disease being highlighted which chimes with the reason for admission within previous analysis for ACS conditions. It is to be noted that Hypertension is high across all deciles and just above the ICB. Mental Health flag is also high.

For Hoddesdon & Broxbourne the data shows higher AF rates which was identified as a theme within the ACS analysis.

National Tool View and Population Demographics and Projections

The following slides represent screen shots from the Nationally Available Tools provided via NHSE.

The information within these tools are used by NHSE to measure and monitor progress. There is some valuable information available within these tools, however the value of these tools is realised when the information within them is triangulated with local data and intelligence.

Public Health Wider Determinants

These provide context for understanding the wider population need, so as Integrated Neighbourhood Teams develop you have a shared understanding of the health and care needs of your population to inform the development of interventions for different patient groups.



PCN Demographics - NHS England

Total Population

HODDESDON & BROXBORNE PCN

Snapshot as at: 30/06/2021

Registered population		Demographics		Prevalence		Acute utilisation		Covid	
% of total	100.0%	% White	79.1%	% with 1+ conditions	29.5%	% of annual activity (total 97,196)	100.0%	% one or more at risk conditions	17.2%
% of annual change	0.3%	% BAME	6.7%	% with 5+ conditions	3.3%	% of annual cost (total £21M)	100.0%	% two or more at risk conditions	6.9%
		% IMD top	0.0%						
		% IMD bottom	26.4%						

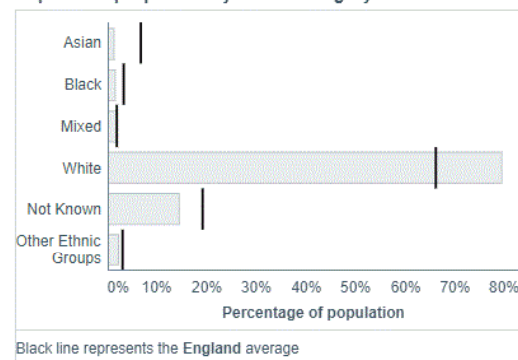
Population demographics - Snapshot as at: 30/06/2021

Choose benchmark: England

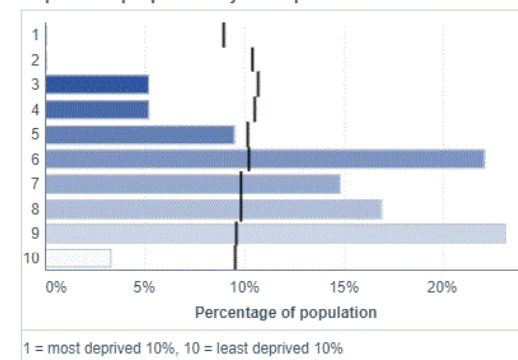
Population pyramid



Population proportion by ethnic category

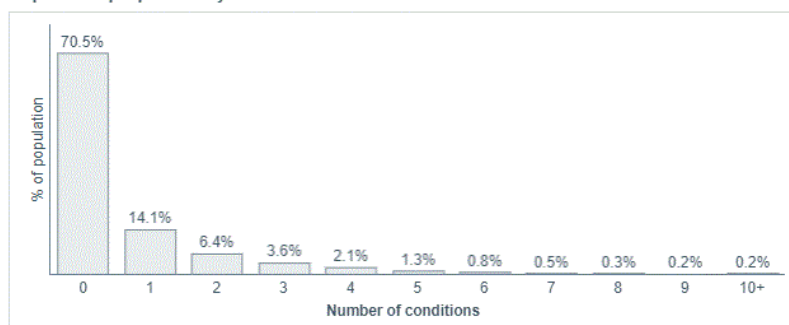


Population proportion by IM Deprivation decile



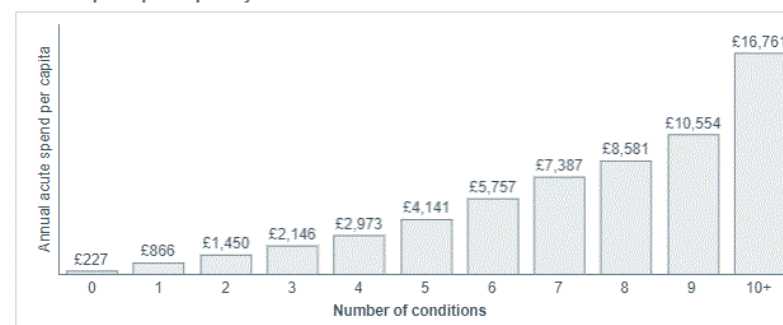
Prevalence - Snapshot as at: 30/06/2021

Population proportion by number of conditions



Annual spend per capita by number of conditions

Financial Year: 2020/21



The Population & Person Insights dashboard has provided good overall summary metrics on the PCN's total population, here we have benchmarked views on standardised demographics, such as deprivation deciles, and proportion of the PCN population by number of conditions.

Hoddesdon & Broxbourne PCN population profile differs compared to England especially in the age categories 20-44 which is lower and the age categories 15-19 and 50-90+ which is higher. The majority of people live within the 5 least deprived deciles (6-10).

PCN Demographics - NHS England

LTC

HODDESDON & BROXBORNE PCN

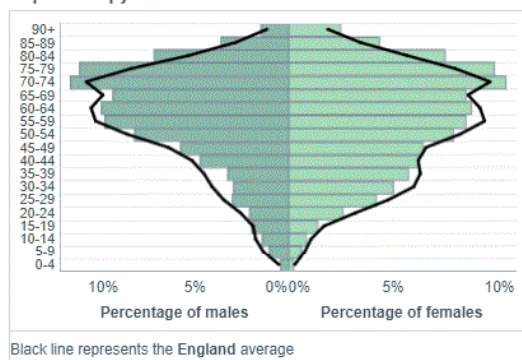
Snapshot as at: 30/06/2021

Registered population		Demographics		Prevalence		Acute utilisation		Covid	
% of total	25.8%	% White	92.0%	% with 1+ conditions	100.0%	% of annual activity (total 51,630)	53.1%	% one or more at risk conditions	51.1%
% of annual change	4.4%	% BAME	5.6%	% with 5+ conditions	6.2%	% of annual cost (total £10M)	48.8%	% two or more at risk conditions	17.8%
		% IMD top	0.0%						
		% IMD bottom	26.4%						

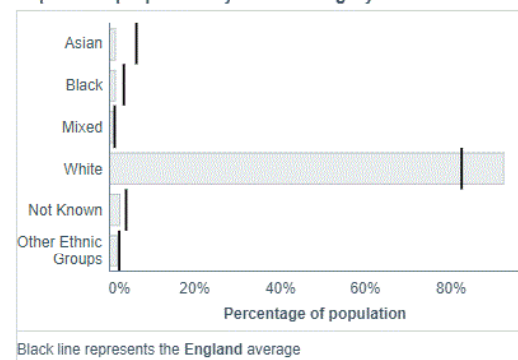
Population demographics - Snapshot as at: 30/06/2021

Choose benchmark: England

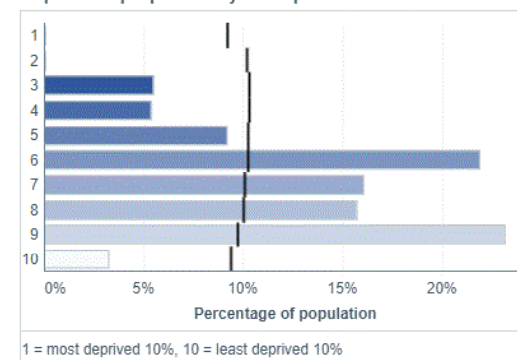
Population pyramid



Population proportion by ethnic category

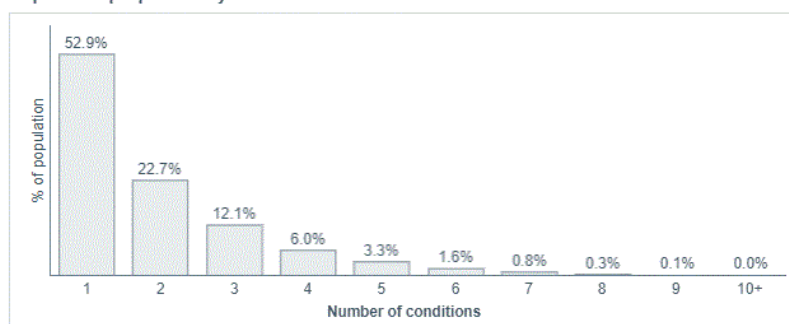


Population proportion by IM Deprivation decile



Prevalence - Snapshot as at: 30/06/2021

Population proportion by number of conditions



Annual spend per capita by number of conditions

Financial Year: 2020/21



When compared with the overall PCN demographics on the previous page, those in the PCN whom have an LTC as defined by NHS England, are benchmarked against the English averages, the view for the PCN shows us that 29.5% population have at least 1 Long Term Condition. 6.2% have more than 5 LTCs compared to 5.6% for the ICB.

The population pyramid shows a similar profile to England for those living with LTCs, except the age categories 70-90+ which is higher.

Practice Indicators - Triggers and Levels

Practice Indicators for		AMWELL SURGERY			BRIDGE COTTAGE SURGERY			HAILEY VIEW SURGERY			PARK LANE SURGERY			THE LIMES SURGERY		
HODDESDON & BROXBORNE PCN		Latest Score	Time Period	Trigger Level	Latest Score	Time Period	Trigger Level	Latest Score	Time Period	Trigger Level	Latest Score	Time Period	Trigger Level	Latest Score	Time Period	Trigger Level
Clinical Domain	Indicator Name															
Clinical Diagnosis	Detection rate Cancer	0.522	2020/21	No Trigger	0.688	2020/21	Positive	0.474	2020/21	No Trigger	0.647	2020/21	No Trigger	0.357	2020/21	Level 1
Coronary heart disease	% AF anticoagulation therapy CHADS2-VASc score >1	91	2020/21	Positive	92	2020/21	Positive	93.9	2020/21	Positive	92.3	2020/21	Positive	92.9	2020/21	Positive
	% CHD aged <=79 BP reading 140/90mmHg or less	63	2020/21	Level 1	36.8	2020/21	Level 2	46.6	2020/21	Level 1	64.1	2020/21	Level 1	36.3	2020/21	Level 2
	% CHD cholesterol 5 mmol/l or less	72	2021/22	No Trigger	68.5	2021/22	No Trigger	67.5	2021/22	No Trigger	72.4	2021/22	No Trigger	59.8	2021/22	No Trigger
	% hypertension aged <=79 BP reading 140/90mmHg or less	50.8	2020/21	Level 1	36	2020/21	Level 2	43.7	2020/21	Level 1	51.1	2020/21	Level 1	29.1	2020/21	Level 2
Diabetes	% Diabetes aged >=40 years no CVD history without moderate or severe frailty treated with statin	79.8	2020/21	Level 1	75.1	2020/21	Level 1	79.8	2020/21	Level 1	89.3	2020/21	Level 1	76.4	2020/21	Level 1
	% Diabetes without moderate or severe frailty BP 140/80 mmHg or less	51.8	2020/21	Level 1	25	2020/21	Level 2	44.4	2020/21	Level 1	71.8	2020/21	Level 1	25	2020/21	Level 2
	% diabetes without moderate or severe frailty IFCC-HbA1c is 58 mmol/mol or less	49.6	2020/21	Level 2	39.2	2020/21	Level 2	50.8	2020/21	Level 1	59.1	2020/21	Level 1	48.4	2020/21	Level 2
Exception Rating	Overall Personalised Care Adjustment Rate	0.045	2020/21	No Trigger	0.03	2020/21	No Trigger	0.025	2020/21	No Trigger	0.032	2020/21	No Trigger	0.032	2020/21	No Trigger
Medicines Management	% antibiotics Co-amoxiclav, Cephalosporins, Quinolones	9.8	2021/22 Q4	No Trigger	10.6	2021/22 Q4	Level 1	10.5	2021/22 Q4	Level 1	11.3	2021/22 Q4	Level 1	7.6	2021/22 Q4	No Trigger
	% Naproxen and Ibuprofen	77	2021/22 Q4	No Trigger	75	2021/22 Q4	No Trigger	78.5	2021/22 Q4	No Trigger	75.5	2021/22 Q4	No Trigger	88.1	2021/22 Q4	No Trigger
	Antibacterial Items/Star Pu	1.098	2021/22 Q4	No Trigger	0.966	2021/22 Q4	Positive	0.801	2021/22 Q4	Positive	1.089	2021/22 Q4	No Trigger	0.911	2021/22 Q4	Positive
	Hypnotics ADQ/Star Pu	0.442	2021/22 Q4	No Trigger	0.736	2021/22 Q4	No Trigger	0.486	2021/22 Q4	No Trigger	0.882	2021/22 Q4	No Trigger	0.229	2021/22 Q4	Positive
	Oral NSAIDs ADQs/STAR-PU	4.997	2021/22 Q4	No Trigger	4.045	2021/22 Q4	No Trigger	5.247	2021/22 Q4	No Trigger	4.056	2021/22 Q4	No Trigger	2.426	2021/22 Q4	No Trigger
Mental Health	% first choice generic SSRIs	70.2	2021/22 Q4	No Trigger	75.8	2021/22 Q4	No Trigger	75.3	2021/22 Q4	No Trigger	69.6	2021/22 Q4	No Trigger	77.8	2021/22 Q4	Positive
	% MH comprehensive care plan	26	2020/21	Level 1	7.5	2020/21	Level 2	7.7	2020/21	Level 2	29.2	2020/21	Level 1	38.1	2020/21	Level 1
	% SMI alcohol record	34.7	2020/21	Level 2	8.1	2020/21	Level 2	23.3	2020/21	Level 2	34.2	2020/21	Level 2	15.4	2020/21	Level 2
	% SMI BP record	55.6	2020/21	Level 1	29.6	2020/21	Level 2	56.6	2020/21	Level 1	30.6	2020/21	Level 2	34.8	2020/21	Level 2
	Dementia Face to Face review	34.1	2020/21	Level 1	8.5	2020/21	Level 1	60.3	2020/21	Level 1	48.6	2020/21	Level 1	38.9	2020/21	Level 1
	Select antidepressants ADQs/STARPU	1.766	2021/22 Q4	No Trigger	1.584	2021/22 Q4	No Trigger	1.859	2021/22 Q4	No Trigger	1.477	2021/22 Q4	No Trigger	1.32	2021/22 Q4	No Trigger
Patient Experience	Confidence and trust in healthcare professional	96.4	2020/21	No Trigger	99.3	2020/21	Positive	98	2020/21	No Trigger	99.6	2020/21	Positive	95.1	2020/21	No Trigger
	Frequency seeing preferred GP	49	2020/21	No Trigger	17	2020/21	Level 1	19.4	2020/21	No Trigger	36.9	2020/21	No Trigger	34.7	2020/21	No Trigger
	Healthcare professional treating with care and concern	90.7	2020/21	No Trigger	93	2020/21	No Trigger	95	2020/21	No Trigger	93.8	2020/21	No Trigger	85.2	2020/21	No Trigger
	Overall experience of your GP practice	90.8	2020/21	No Trigger	86.1	2020/21	No Trigger	91.4	2020/21	No Trigger	91.7	2020/21	No Trigger	83.3	2020/21	No Trigger
	Satisfaction with appointment times	81	2020/21	No Trigger	54.8	2020/21	No Trigger	61.5	2020/21	No Trigger	70.2	2020/21	No Trigger	69.4	2020/21	No Trigger
Public Health	% Child Imms DTaP/IPV/Hib/HepB (age 1 year)	95.6	2020/21	No Trigger	93.3	2020/21	Level 1	96.6	2020/21	No Trigger	95.1	2020/21	No Trigger	97.3	2020/21	No Trigger
	% Child Imms Hib/MenC booster	97.1	2020/21	No Trigger	93.2	2020/21	Level 1	94.1	2020/21	Level 1	94.9	2020/21	Level 1	96.7	2020/21	No Trigger
	% Child Imms MMR (Age 2 yrs)	95.9	2020/21	No Trigger	93.2	2020/21	Level 1	94.1	2020/21	Level 1	89.9	2020/21	Level 1	96.7	2020/21	No Trigger
	% Child Imms PCV Booster	96.5	2020/21	No Trigger	93.2	2020/21	Level 1	94.1	2020/21	Level 1	94.2	2020/21	Level 1	96.7	2020/21	No Trigger
	Cervical Screening	79.5	2021/22 Q4	Level 1	78.6	2021/22 Q4	Level 1	88	2021/22 Q4	No Trigger	80.4	2021/22 Q4	No Trigger	77.6	2021/22 Q4	Level 1
Respiratory	% Asthma review in last 6 mths	70.1	2020/21	No Trigger	32.5	2020/21	Level 1	56.6	2020/21	Level 1	64.9	2020/21	Level 1	20.2	2020/21	Level 1
	% Asthma spirometry and one other objective test	7.1	2020/21	Level 2	0	2020/21	Level 2	11.1	2020/21	Level 2	0	2020/21	Level 1	0	2020/21	Level 2
	% COPD with review in last 12 mths	59.8	2020/21	Level 1	23.5	2020/21	Level 1	41.9	2020/21	Level 1	82.8	2020/21	Level 1	21.8	2020/21	Level 1
	% LTC patients who smoke	13.9	2020/21	No Trigger	7.8	2020/21	No Trigger	10.5	2020/21	No Trigger	8.5	2020/21	No Trigger	9	2020/21	No Trigger
	% LTC Smoker offer support	98.4	2020/21	No Trigger	100	2020/21	No Trigger	56	2020/21	Level 1	97.6	2020/21	No Trigger	95.5	2020/21	Level 1
	% Smoking patients over 15 recorded	78.3	2021/22	No Trigger	75.4	2021/22	No Trigger	75	2021/22	No Trigger	78.9	2021/22	No Trigger	72.4	2021/22	No Trigger
	% Smoking status recorded	92.1	2020/21	No Trigger	93.5	2020/21	No Trigger	90.2	2020/21	No Trigger	94.5	2020/21	No Trigger	94.6	2020/21	No Trigger
	% w. MRC dyspnoea score >=3 w. offer of referral to pulm. rehab. Clinic	83.3	2020/21	Level 1	100	2020/21	No Trigger	80	2020/21	Level 1	46.2	2020/21	Level 1	60	2020/21	Level 1

Primary Care clinical domain indicators as provided by NHS England as highlighted here with Trigger Levels against each, and represents a consolidation of data sets, designed to reduce the burden on GPs following these outlier identification. This indicator set is to support quality assurance and improvement of GP services; here, the higher the Level indicated, the more indicative of risk that has been found for that indicator.

The Practices have opportunities for every Level 1 indicated metric; however, any Level 2 indicator must be reviewed; guidance on this data set can be found in the below link, and for more up-to-date data, please log into your Ardens Manager (<https://app.ardensmanager.com/>).

Wider Determinants



Where 1 is the most deprived in HWE ICB and 35 the least

In Hoddesdon & Broxbourne PCN an estimated:

- 11.6% of children live in poverty.
- 10.5% of older people live in poverty.
- 9.8% of households live in fuel poverty.
- 6.9% of households are overcrowded.
- 28.2% of people aged 65 and over live alone.
- 1.1% of people cannot speak English well.
- 3.8% of working age people are claiming out of work benefits.
- 21.2% of children aged 4-5 and 33.7% of children aged 10-11 are overweight.

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Hertfordshire Public Health
Evidence & Intelligence
Epidemiology

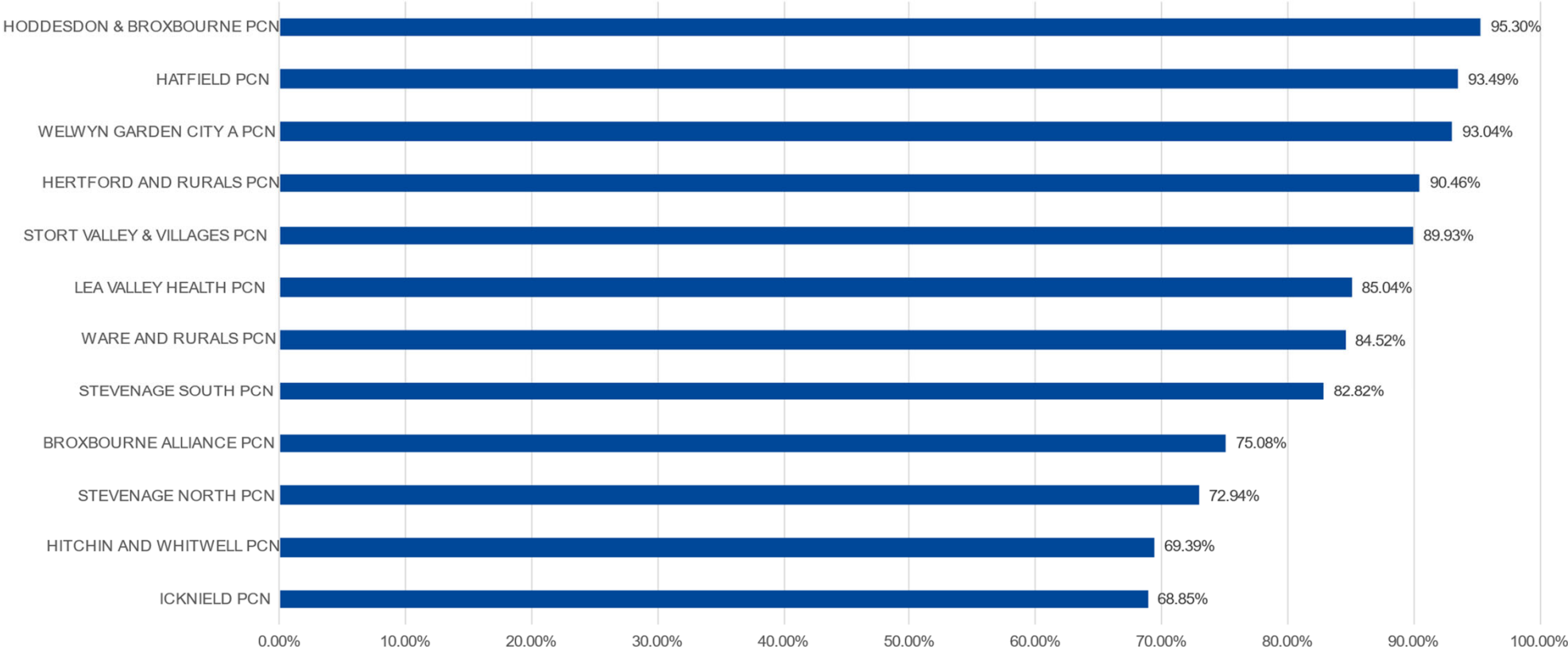


The above provides a summary of the wider determinants of health for Hoddesdon & Broxbourne.

Wider determinants analysis from Public Health Evidence and Intelligence shows Hoddesdon & Broxbourne is at the mid-point of the deprivation scale for PCNs within the ICB across all indicators, except Housing and Services where it is one of the most deprived. Fuel Poverty is one of the least deprived in the ICB.

SPREAD OF PATIENTS ACROSS ENGLAND CONT.

Percent of East and North Hertfordshire patients within Hertfordshire and West Essex boundary

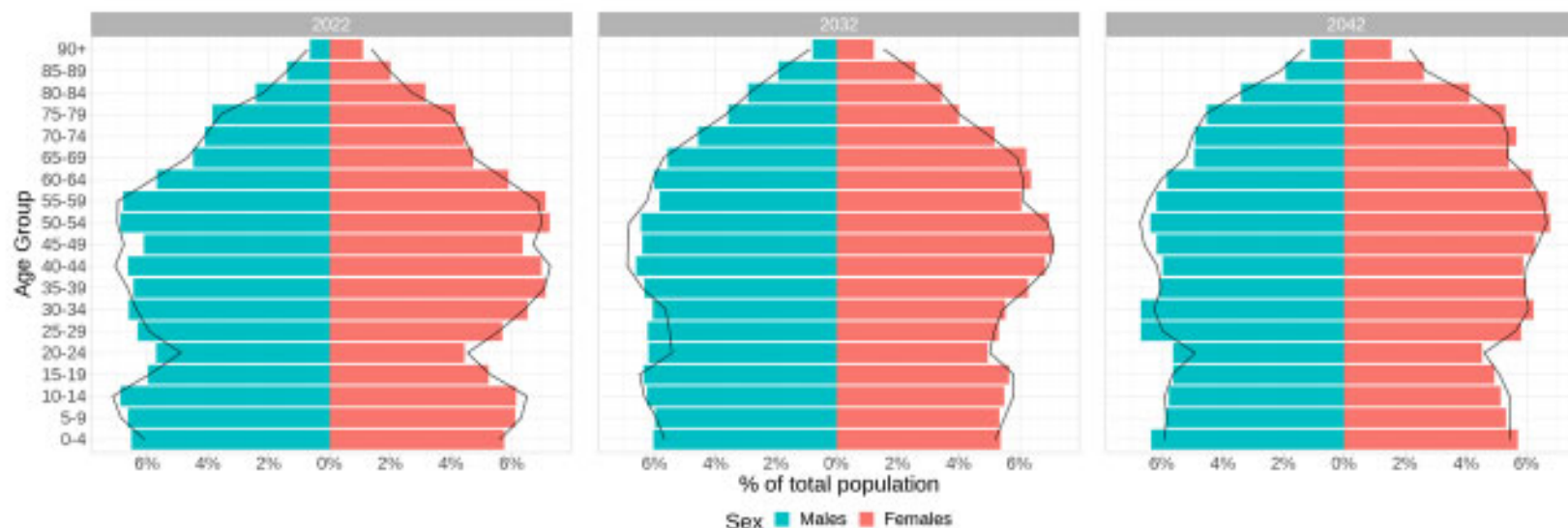


This chart shows the proportion of the registered population living within the ICB geographical boundary.

The spread of patients for Hoddesdon & Broxbourne PCN indicates 4.7% of the population are not located within the Hertfordshire & West Essex boundaries; this means that this population may be accessing services outside of the ICB and the impact of coterminous alignment with neighbouring ICBs must be taken into account for this population by the PCN.



Projection Pyramids



Black line indicates HWE ICS values.
Population pyramids and table shown for Broxbourne district.
District shown is based on the largest majority of the PCN's registered population.

Age Band	2022 Projection	2032 Projection	2042 Projection
Under 5	5,935	5,519	5,885
Under 24	28,732	27,875	26,774
24-64	50,592	48,681	48,782
65+	17,730	20,398	22,267
85+	2,511	3,175	3,534

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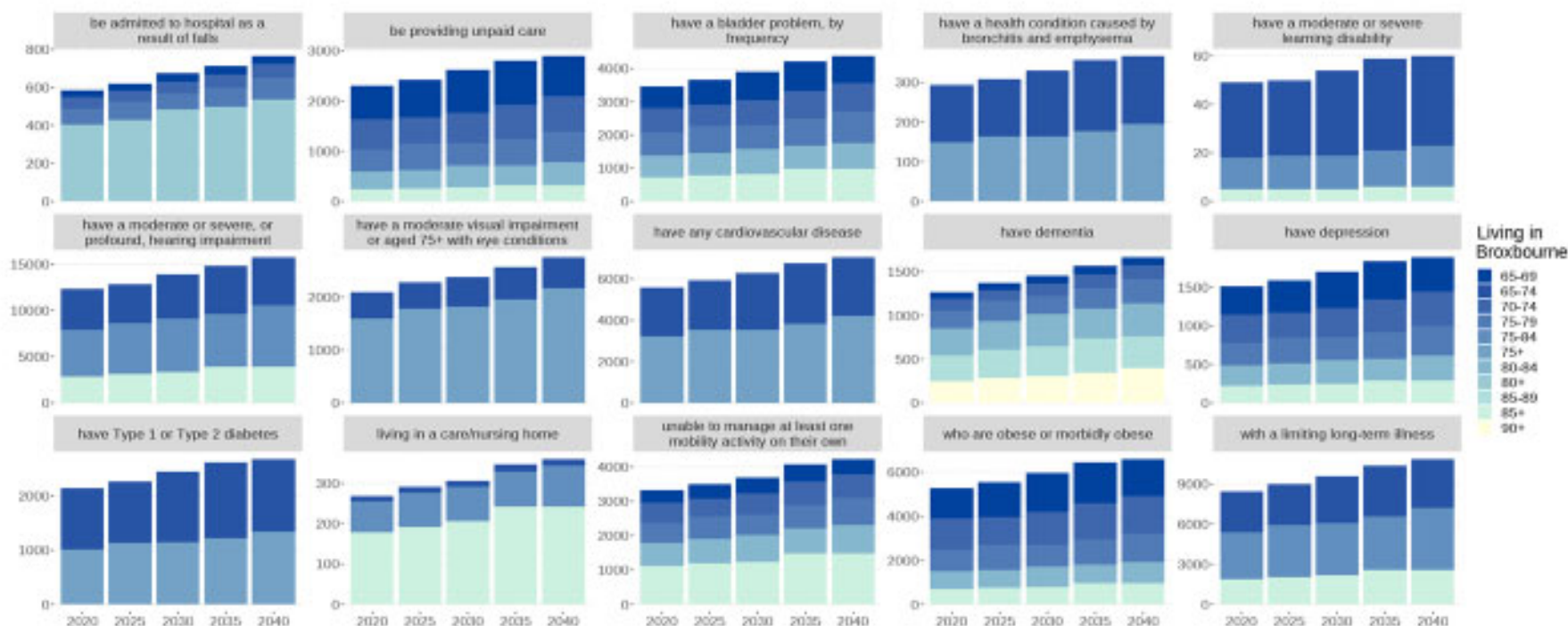
Hertfordshire Public Health
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Expected population growth for Broxbourne district by the Local Authority, forecasts continued increase between 2023 through to 2034 which will bring additional demands for healthcare. Projections show an expected increase in the number of people over 65 from ~18k to ~20k.



People aged 65+ projected to...



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The above shows the impact on health due to the expected increase in the number of people over 65.

Segmentation within the ICB

Optum

HWE

Segment & Outcomes
Framework Documentation

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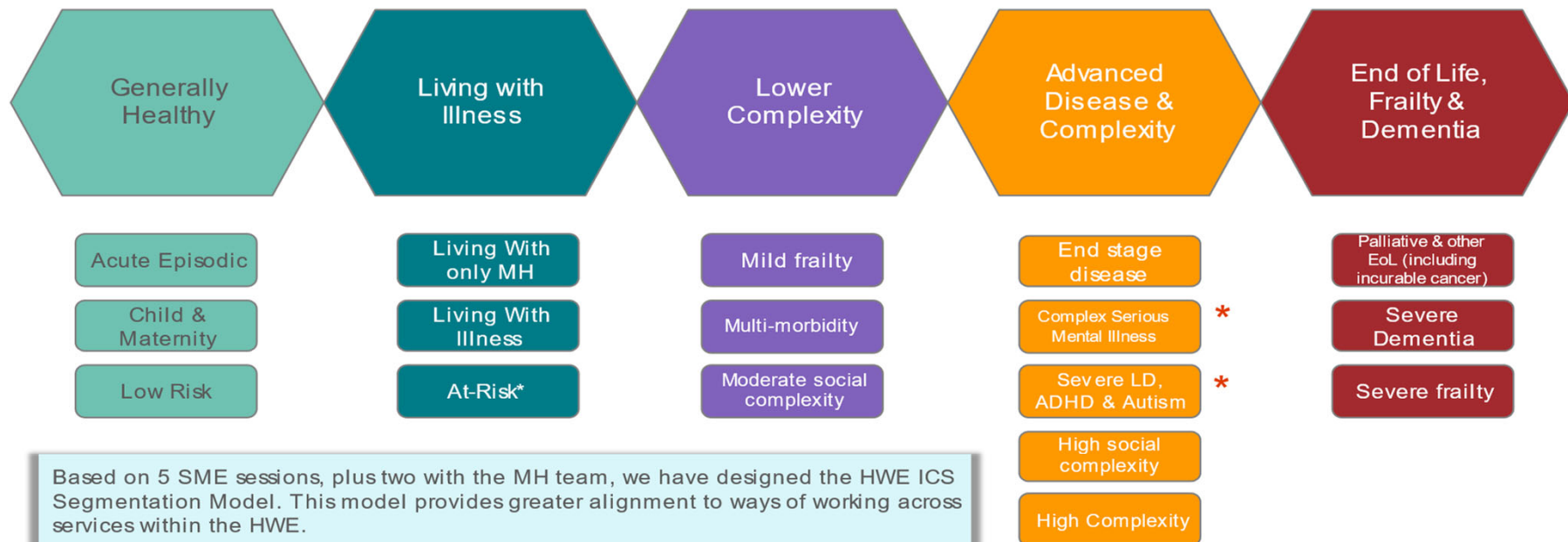
PHM Segment Model - Overview

The ICB has worked in partnership with Optum to develop a Health Segmentation model using linked data covering 1.2m of our ICS population. As part of the process representation from different care settings and internal ICB teams were engaged.

Our core PHM and Population Segmentation model combines primary and acute care data with wider determinants and community, mental health and social care data where available. The model has been built with a view to include additional data sets as they become available. The segmentation model provides the foundations for advanced population health management analytics that goes beyond patient level risk stratification.

The below demonstrates the 5 high level segments and the sub segments beneath within the model.

Segmentation model – third iteration



Based on 5 SME sessions, plus two with the MH team, we have designed the HWE ICS Segmentation Model. This model provides greater alignment to ways of working across services within the HWE.

It follows a MECE model, assigned in order from right to left in segment, and top to bottom in subsegment.

* awaiting finalisation of methodology

PHM Segment Model - Overview

The logic behind the ICB Health Segmentation model has been developed to allow the ICB to consider its whole population and the different interventions required to improve the outcomes of different groups of people with similar characteristics.

Alongside the segmentation logic an outcomes framework was developed.

Whole Population Outcomes

- INCREASE life expectancy / INCREASE average age at death in adults.
- REDUCE gap in age at death between most and least deprived deciles.
- INCREASE disease-free life expectancy
- REDUCE rates of suicide
- REDUCE proportion of population who are digitally excluded either by lack of equipment, connectivity, skills, cost, or confidence to be able to access clinical services.

"Generally healthy"

Who is in this group?

- Children and adults in the general population who are not otherwise captured in other segments.
- Most likely receive episodic care due to accidents and injuries or linked to maternity and CYP routine services.
- No diagnosed conditions.

Social & Clinical Outcomes

- INCREASE screening.
- IMPROVE experience of Maternity services.
- REDUCE rates of childhood obesity in reception and year 6.
- REDUCE rate of infant mortality.
- REDUCTION in proportion of people diagnosed with low mood and/or depression.

Living with Illness

Who is in this group?

- Includes people with single illnesses (including MH), that are currently controlled or able to self-manage and will receive most of their care in a planned way through primary care.
- Includes people with social or behavioural risk factors for more advanced disease.

Social & Clinical Outcomes

- INCREASE proportion of patients who feel able to self-manage their condition.
- REDUCE prevalence of behavioural risk factors for more advanced diseases, including: obesity, smoking status and drug abuse.
- REDUCE episodes of ill -health requiring emergency admissions for long term condition.
- INCREASE percentage of people with mental health problems in employment.
- INCREASE proportion of people who are able to maintain life routines considered important to the individual, e.g work, ..
- REDUCE emergency attendances due to alcohol -related harm.

Lower Complexity

Who is in this group?

- Includes people with moderate levels of morbidity and complexity. This is either as a result of: Multi-morbidity (24 long term conditions), Mild frailty and/or Social complexity.

Social & Clinical Outcomes

- INCREASE proportion of patients who feel able to self-manage their condition.
- REDUCE rate of emergency admissions for people with lower complexity.
- INCREASE proportion of patients offered personalised care and support planning.
- REDUCE prevalence of behavioural risk factors for more advanced diseases, including: obesity, smoking status and drug abuse.

Advanced Disease & Complexity

Who is in this group?

- Advanced disease and complexity represents a cohort of people with one or more significant illnesses that impact on their day to day functioning as well as people with significant risk from social complexity

Social & Clinical Outcomes

- INCREASE five year survival from cancer.
- REDUCE rate of emergency admissions in people with advanced disease or complexity.
- REDUCE the difference in average age of death between people with learning disability/SMI compared to general population.
- REDUCE proportion of whole population who are living with advanced disease and/or complexity.

End of Life, Frailty & Dementia

Who is in this group?

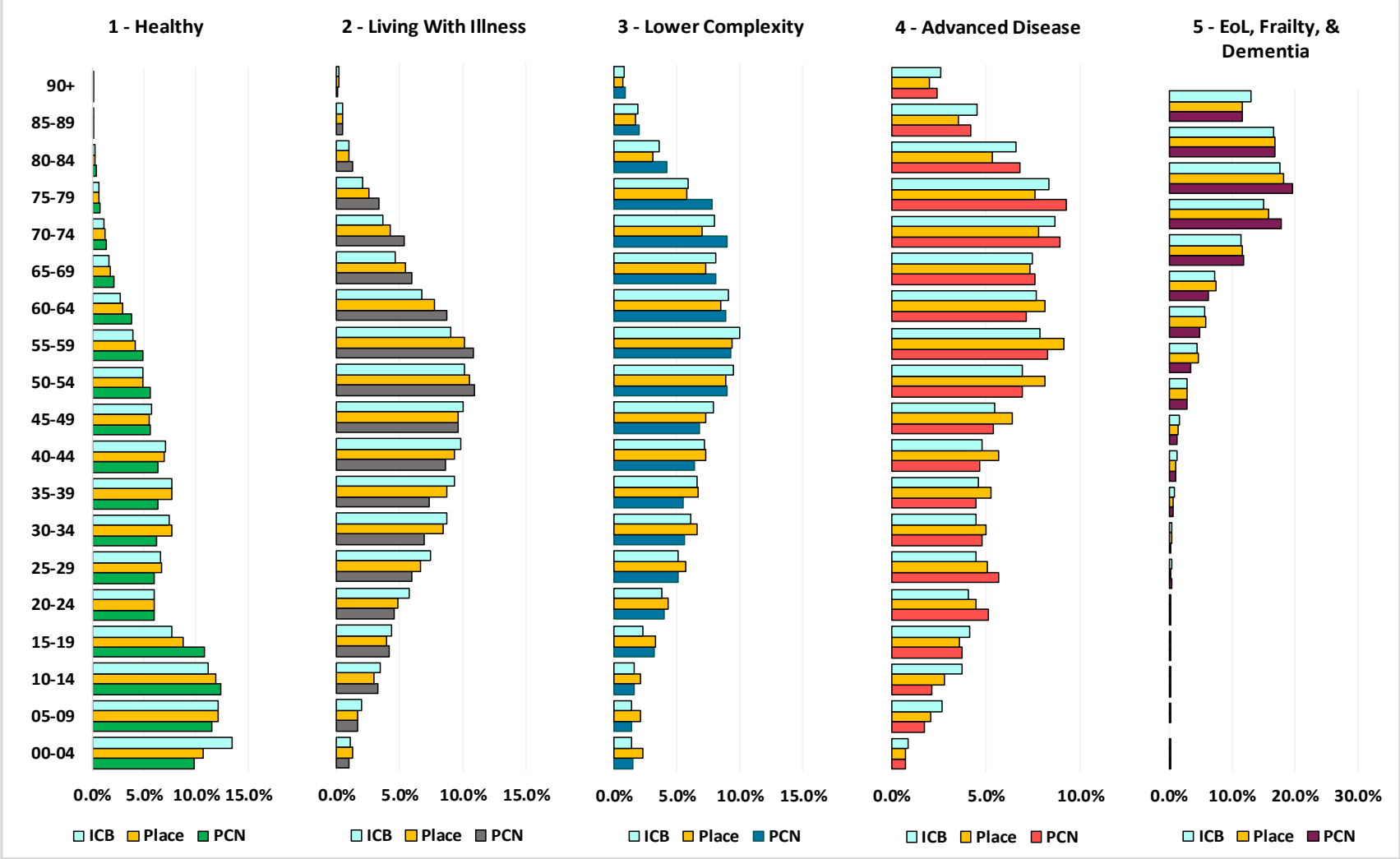
- End of Life, frailty and dementia is the first segment in the logic and is the first set of criteria on which people are assessed. The segment includes: people who are identified as being in their last year of life, or on the palliative disease register as well as people with incurable cancer. This segment also includes those with severe frailty and/or severe dementia.

Social & Clinical Outcomes

- REDUCE dependency for emergency care services e.g A&E attendances and emergency admissions.
- INCREASE proportion of people who die in their preferred place of death.
- INCREASE identification of frail and complex patients, including those with dementia or at end of life.
- REDUCE proportion of days disrupted by emergency care in last year of life.
- INCREASE number of days spent at home in last year of life.
- INCREASE proportion of people supported at home instead of in residential care.

Age Profile and Health Segment

Age Profile of PCN, Place, and ICB Segment Population Comparison

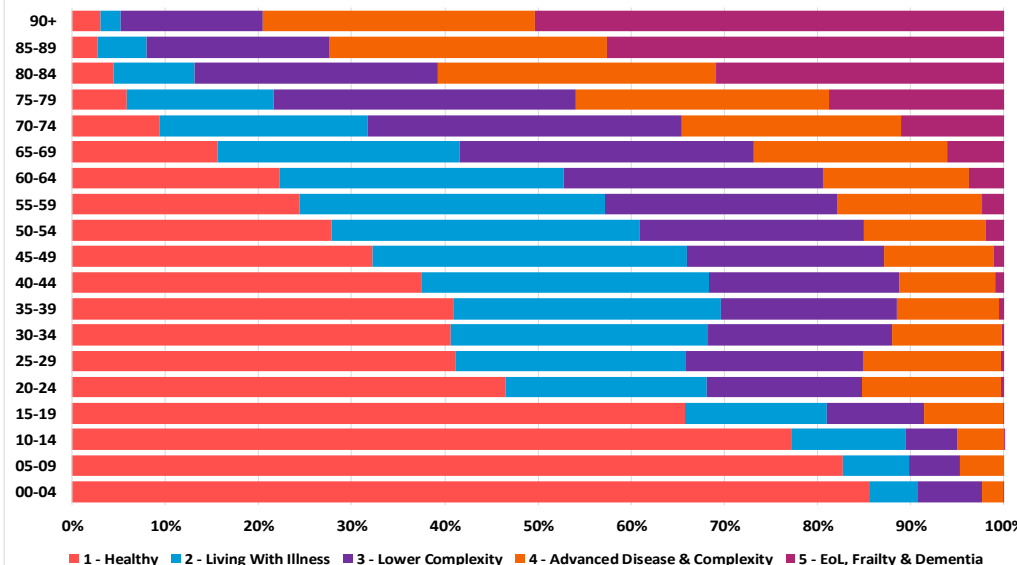


Each registered person is assigned to a segment and this can be cut by age group and also geographically by Place or PCN.

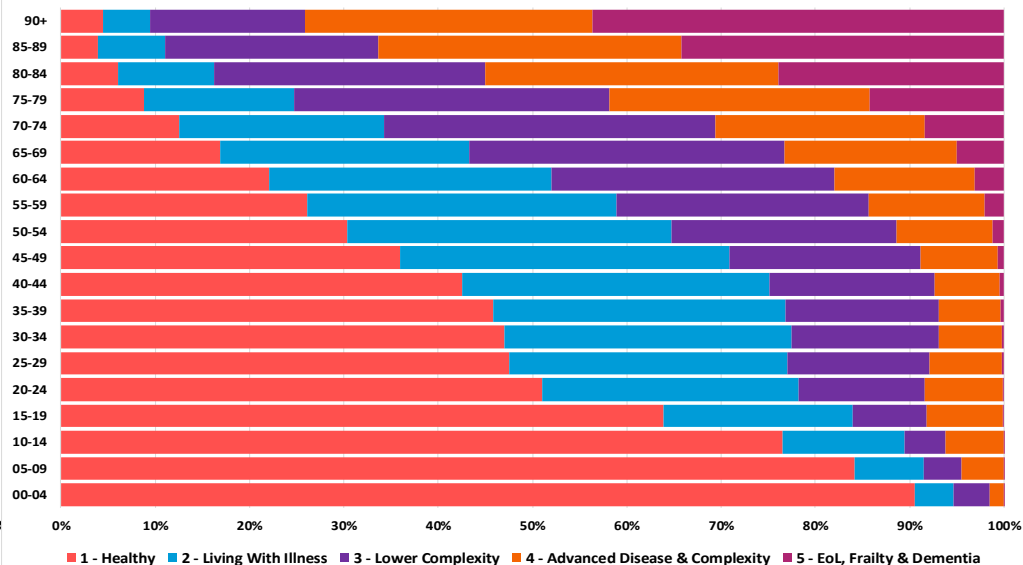
The above looks at the breakdown by age of people within each segment. It provides the PCN value against the Place and ICB value.

Demographic Breakdowns - Segment & Deprivation Quintiles

Segment Proportion by Age Group



ICB Segment Proportion by Age Group as a Comparator



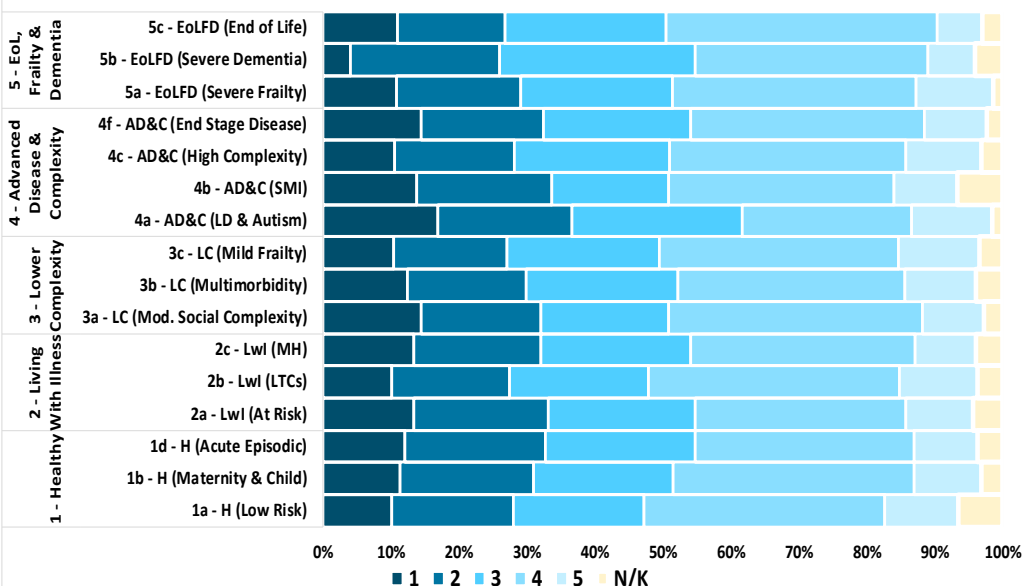
The ICB Health Segments here are broken down by total population and 5 year age groups; as expected with age the proportion of people within the healthy segment decreases.

The illustration on the left represents the PCN breakdown whilst the one on the rights shows the ICB breakdown.

Overall Hoddesdon & Broxbourne has a slightly higher profile for all age categories for segments 2 to 5, compared to the ICB population.

The illustration bottom right shows the Sub-Segments by Deprivation Quintile, here we can see the levels of deprivation illustrated within the earlier wider determinants slide demonstrated within this breakdown.

Index of Multiple Deprivation Quintile Proportion of Population Segment



Major Conditions Comparison - Per 1,000 Registered

PCN NAME	COPD	Obesity	Asthma	Diabetes	Dementia	Cancer	Learning Disabilities	Hypertension	Stroke	Chronic Kidney Disease	Heart Disease	Heart Failure	Atrial Fib	Chronic Cardiac Disease	Depression	MH	Anxiety	Serious Mental Illness	Alzheimers
ABBEY HEALTH	16.94	91.79	134.57	138.01	16.06	35.32	15.82	119.23	33.72	10.05	35.88	10.65	11.77	57.71	121.19	171.41	86.11	25.15	10.73
ALBAN HEALTHCARE	16.78	79.37	154.97	90.13	16.99	53.76	14.22	149.53	34.73	24.16	39.98	10.97	17.65	50.69	127.50	205.23	111.71	23.36	13.08
ALLIANCE	19.90	114.36	123.67	105.84	15.86	29.28	17.82	155.51	31.61	9.04	39.00	10.29	9.50	62.66	114.55	160.93	87.83	25.81	10.21
ALPHA	16.29	121.01	139.73	97.63	14.00	55.48	10.91	161.78	34.67	18.36	42.29	11.02	21.77	53.43	153.71	233.41	120.24	17.12	9.22
ATTENBOROUGH	18.14	113.20	126.85	105.43	15.54	36.21	11.81	130.54	33.07	15.51	42.51	11.91	11.43	50.85	118.02	176.61	95.74	19.13	8.70
BROXBOURNE ALLIANCE	20.30	160.08	122.01	81.19	7.50	61.16	6.46	171.90	29.87	23.09	49.05	11.84	19.50	68.57	135.43	191.17	116.76	7.91	4.09
CENTRAL WATFORD	17.17	97.89	108.55	152.70	20.12	25.21	13.25	123.19	30.90	8.01	34.88	10.09	16.32	46.23	98.31	132.67	62.41	20.54	8.28
DACORUM BETA	24.98	156.71	132.83	158.17	30.23	40.07	18.80	156.86	44.28	19.23	50.10	16.42	26.50	78.15	176.09	245.43	132.71	31.47	14.12
DANAIS	22.41	131.50	138.52	116.70	19.56	36.00	19.66	181.38	45.29	7.84	44.34	12.86	11.35	57.63	137.60	185.74	82.50	28.26	11.88
DELTA	16.90	150.87	135.59	125.22	17.35	45.07	13.06	152.28	34.37	21.60	42.61	10.85	19.87	55.43	142.21	222.46	128.07	22.98	10.97
HALO	18.22	93.22	137.55	112.78	20.85	47.83	20.12	137.28	37.23	16.03	41.35	11.68	16.94	85.83	149.64	217.88	111.29	29.96	14.75
HARLOW NORTH	32.17	113.01	160.55	104.04	9.63	65.83	5.80	185.36	41.56	27.03	59.02	17.64	18.36	73.07	152.95	249.04	129.75	8.61	4.78
HARLOW SOUTH	30.09	197.29	169.79	120.15	9.20	57.49	8.17	162.96	38.98	37.02	62.04	19.34	19.54	83.34	174.03	246.72	118.60	11.48	4.96
HARPENDEN HEALTH	21.78	81.60	149.03	107.08	23.86	69.52	12.79	172.72	49.21	21.85	55.34	17.04	25.35	73.71	145.13	230.18	127.83	21.83	14.49
HATFIELD	16.88	58.23	77.11	65.91	7.71	28.28	6.46	107.06	21.36	5.41	34.69	8.47	14.84	42.95	91.34	131.15	87.53	7.83	2.94
HERTFORD AND RURALS	16.86	116.98	126.99	67.48	7.52	54.51	5.99	147.29	25.97	13.35	42.51	10.83	20.25	52.05	138.84	203.98	117.47	7.46	3.97
HERTS FIVE	18.05	119.79	133.62	149.84	32.47	49.57	15.73	175.39	37.47	28.64	46.04	11.72	28.70	67.86	143.18	211.93	115.95	24.53	12.18
HITCHIN AND WHITWELL	21.11	126.63	141.53	80.38	10.25	64.91	5.36	160.97	32.99	22.56	48.88	11.81	23.23	63.10	146.25	217.69	134.47	9.83	6.42
HODDESDON & BROXBOURNE	22.63	163.45	129.18	88.31	9.82	69.33	6.52	182.13	32.80	23.48	54.65	14.88	26.00	65.08	128.92	211.87	124.10	7.19	5.53
ICKNIELD	20.58	132.39	147.83	85.32	11.91	60.97	6.57	164.18	31.52	35.00	51.59	12.61	22.87	68.86	140.93	220.11	121.08	8.97	7.19
LEA VALLEY HEALTH	23.93	166.87	126.46	86.47	6.11	51.75	9.26	172.10	28.22	18.66	48.18	13.17	18.01	57.90	154.32	231.01	165.70	10.89	5.53
LOUGHTON BUCKHURST HILL & CHIGWELL	15.51	82.36	108.00	75.16	9.75	48.63	3.25	126.39	27.64	12.08	48.45	12.73	24.57	58.16	115.48	166.39	109.95	7.20	4.74
MVPS	20.48	132.18	129.05	118.23	17.10	37.36	15.43	141.83	33.00	29.68	40.10	11.91	12.32	50.34	135.02	189.04	100.76	22.35	10.35
NORTH UTTLESFORD	15.67	23.10	103.62	50.30	8.89	35.46	3.02	82.42	26.01	0.19	40.66	8.29	27.47	50.49	94.73	129.90	109.54	4.31	4.09
NORTH WATFORD	21.96	115.98	140.15	136.45	18.26	39.04	14.64	168.63	39.54	20.47	47.73	15.48	20.13	64.24	142.44	194.02	96.65	24.51	9.80
POTTERS BAR	22.98	140.98	142.22	136.58	24.74	53.46	12.70	148.52	37.34	84.75	44.43	12.35	20.80	65.37	132.36	187.18	88.62	20.73	11.56
RICKMANSWORTH & CHORLEYWOOD	17.43	111.90	132.75	112.05	18.36	44.50	13.90	188.27	41.26	6.88	45.98	15.23	20.02	59.08	127.24	185.97	93.22	19.48	8.82
SOUTH UTTLESFORD	15.28	43.19	113.74	57.46	8.33	38.05	2.34	96.24	24.00	4.96	39.00	9.02	20.59	48.74	99.33	142.19	108.67	4.65	3.60
STEVENAGE NORTH	24.27	273.76	124.18	170.45	10.46	46.58	8.92	155.20	29.48	9.51	46.26	11.84	14.55	64.91	136.82	194.88	111.38	8.02	6.11
STEVENAGE SOUTH	23.31	128.57	101.25	75.88	9.99	44.87	6.69	144.52	30.88	15.08	46.63	12.90	13.69	62.56	105.37	151.85	76.49	7.45	6.03
STORT VALLEY & VILLAGES	17.85	122.87	132.49	65.60	7.18	53.86	6.92	144.16	26.39	19.45	44.05	13.41	19.82	60.97	120.51	203.15	127.69	6.34	3.43
THE GRAND UNION	17.43	143.73	135.30	134.24	19.14	42.21	12.89	149.94	36.78	28.86	46.99	12.45	19.10	62.75	138.79	195.84	95.98	20.23	9.53
WARE AND RURALS	18.09	163.30	165.40	77.77	7.63	58.28	5.79	154.35	27.24	22.49	47.89	12.74	20.82	60.01	132.46	198.85	108.67	6.62	4.13
WELWYN GARDEN CITY A	19.05	104.74	104.65	68.93	6.62	41.07	6.99	132.35	23.08	10.49	38.53	10.24	17.72	48.93	117.64	178.45	109.12	7.12	3.14

The data from the ICB model has been collated and the above provides a rate per 1,000 population with a recording of each condition. The darker the blue the higher the presence of the condition within the PCN's population.

Further information and tools that monitor identification and management of people with conditions are available in Ardens Manager rolled out to support the ICB's ECF. Searches available via Ardens can support with case finding and identifying people with management indicators that are due.

When analysing the underlying Segmentation Model data the conditions with highest per 1,000 registered prevalence that are highlighted for Hoddesdon & Broxbourne PCN are Cancer, Hypertension, Heart Disease, Atrial Fib, Chronic Cardiac Disease, Anxiety, MH and Obesity.

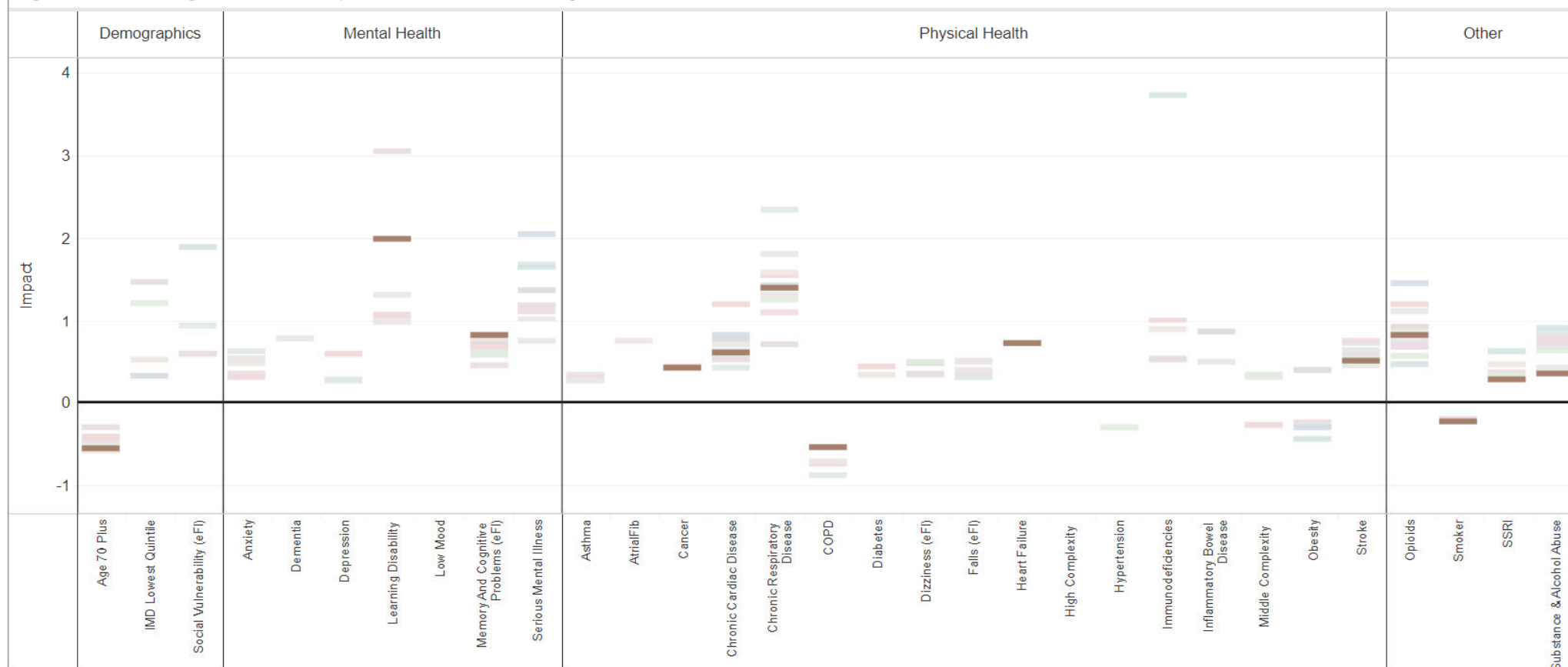
Continued

PCN NAME	ASD	Cerebral Palsy	Chronic Respiratory Disease	Cystic Fibrosis	Huntingtons Disease	Inflammatory Bowel Disease	Kidney Transplant	Metastatic Cancer	Multiple Sclerosis	Muscular Dystrophy	Myasthenia Gravis	Osteoporosis	Other Neurological Conditions	Parkinsons Disease	Rheumatoid Arthritis	Lupus (SLE)	Sickle Cell Disease	Solid Organ Transplant	High BP
ABBEY HEALTH	14.98	1.20	20.95	0.40	0.04	9.37	2.04	2.48	1.56	0.52	0.28	14.46	1.20	2.08	7.53	0.92	0.44	1.48	25.51
ALBAN HEALTHCARE	13.61	1.20	22.10	0.77	0.23	11.13	2.30	3.02	1.73	0.30	0.33	24.28	1.10	2.77	8.39	1.43	0.28	1.34	31.80
ALLIANCE	17.30	1.66	25.28	1.73	0.04	10.85	2.45	3.01	1.13	0.19	0.15	10.55	1.06	2.60	9.01	1.24	1.70	1.09	30.03
ALPHA	11.10	0.64	21.64	0.66	0.13	10.97	2.67	2.41	2.46	0.36	0.30	20.86	1.30	3.14	9.41	1.22	0.17	1.39	35.30
ATTENBOROUGH	11.11	0.96	22.70	1.41	0.13	10.43	2.57	2.70	1.80	0.42	0.29	17.75	1.12	1.99	7.64	1.25	0.55	1.44	42.89
BROXBOURNE ALLIANCE	8.71	1.08	27.27	0.55	0.02	13.59	2.21	3.15	2.09	0.32	0.34	24.44	1.56	1.95	9.86	1.43	0.78	1.45	87.88
CENTRAL WATFORD	10.69	1.11	20.87	0.87	0.15	7.62	2.32	2.65	1.20	0.27	0.21	11.29	1.30	2.44	7.53	1.17	0.54	1.14	29.37
DACORUM BETA	17.95	1.28	29.89	1.09	0.15	11.68	2.62	4.19	2.11	0.53	0.10	17.54	1.16	3.61	9.52	1.33	0.75	1.60	36.87
DANAIS	16.34	1.18	26.91	0.79	0.26	10.93	2.13	3.22	1.77	0.39	0.30	8.73	1.31	2.92	10.14	1.21	0.89	1.71	39.02
DELTA	13.39	1.02	21.36	0.96	0.27	11.99	2.31	3.60	2.28	0.42	0.24	18.70	0.96	2.97	8.99	1.14	0.51	1.20	37.04
HALO	20.38	1.52	23.45	0.73	0.18	11.68	2.31	3.56	1.90	0.23	0.20	20.47	1.40	3.88	8.70	1.34	0.41	0.99	31.92
HARLOW NORTH	7.53	1.38	42.10	1.26	0.06	13.93	3.47	3.41	2.51	0.30	0.36	29.48	2.45	2.39	13.51	1.49	0.60	2.21	69.06
HARLOW SOUTH	11.58	2.48	42.29	0.93	0.10	13.55	2.38	4.24	1.65	0.52	0.52	40.02	2.27	2.38	13.55	2.48	0.31	1.86	95.65
HARPENDEN HEALTH	12.54	1.06	28.25	0.66	0.12	10.84	2.47	5.89	2.22	0.39	0.48	29.04	1.89	4.68	9.54	1.18	0.39	1.41	28.50
HATFIELD	6.55	0.76	21.97	0.47	0.06	10.21	2.74	1.89	0.90	0.32	0.23	19.79	1.43	1.51	6.72	1.25	0.84	1.54	71.96
HERTFORD AND RURALS	8.19	0.81	24.68	0.69	0.12	15.00	2.38	2.24	2.26	0.44	0.30	27.37	1.37	2.38	7.72	0.89	0.10	1.53	90.91
HERTS FIVE	13.79	1.39	23.04	0.77	0.13	12.86	2.98	2.86	2.45	0.25	0.36	22.67	1.69	3.63	17.88	1.26	0.62	1.66	34.03
HITCHIN AND WHITWELL	9.93	1.49	30.11	0.50	0.00	15.61	2.87	3.41	2.41	0.32	0.32	34.83	1.42	2.52	8.34	1.63	0.14	1.60	92.26
HODDESDON & BROXBOURNE	9.14	0.96	31.53	0.58	0.27	14.77	2.84	3.29	2.38	0.43	0.23	33.55	1.73	2.33	9.37	1.35	0.22	1.73	96.87
ICKNIELD	10.67	1.08	29.47	0.62	0.08	16.17	2.69	2.91	3.58	0.43	0.32	27.18	1.29	2.67	8.51	1.27	0.05	2.02	82.47
LEA VALLEY HEALTH	10.05	1.27	31.63	0.59	0.10	12.74	2.37	2.80	1.53	0.36	0.46	22.43	1.89	1.72	10.47	1.63	1.11	1.98	97.79
LOUGHTON BUCKHURST HILL & CHIGWELL	4.13	0.84	22.95	0.79	0.14	14.26	2.42	3.62	1.77	0.46	0.33	38.42	1.90	2.04	8.87	1.53	0.19	1.35	65.68
MVPS	14.28	1.17	34.30	10.11	0.07	11.35	2.43	3.60	2.06	0.30	0.15	15.86	1.17	2.47	8.53	1.69	0.59	1.30	32.96
NORTH UTTLESFORD	2.34	0.78	21.65	0.73	0.05	11.09	1.18	2.48	1.13	0.48	0.11	23.32	1.16	1.27	10.04	1.29	0.03	1.72	26.93
NORTH WATFORD	12.70	1.07	27.72	2.17	0.11	12.20	2.44	3.36	2.40	0.42	0.31	16.47	1.53	2.63	9.42	1.45	0.34	0.92	37.13
POTTERS BAR	12.98	0.76	27.06	0.62	0.17	8.31	1.90	2.70	2.01	0.38	0.48	21.07	1.49	3.25	7.96	1.07	0.42	1.28	33.70
RICKMANSWORTH & CHORLEYWOOD	11.74	1.12	23.30	2.02	0.25	9.40	2.45	3.20	1.33	0.54	0.18	15.52	0.97	2.88	7.38	0.97	0.11	1.51	32.44
SOUTH UTTLESFORD	3.05	1.02	21.93	0.53	0.02	10.61	1.97	2.44	1.89	0.28	0.22	29.23	1.34	1.71	10.30	1.48	0.08	2.01	24.13
STEVENAGE NORTH	12.22	1.43	32.98	0.27	0.05	16.52	3.40	2.92	2.23	0.64	0.27	15.67	1.81	2.71	7.06	1.27	0.48	1.54	94.81
STEVENAGE SOUTH	10.81	1.57	31.16	0.88	0.06	13.08	2.69	4.03	2.09	0.27	0.33	14.90	1.57	2.09	5.81	1.12	0.39	1.73	75.58
STORT VALLEY & VILLAGES	10.22	1.05	25.19	0.51	0.00	12.73	1.89	3.26	1.95	0.41	0.36	41.69	1.69	2.08	9.13	1.63	0.13	1.39	76.18
THE GRAND UNION	13.30	1.32	22.90	1.36	0.18	11.75	2.22	3.19	2.19	0.25	0.25	26.69	1.27	2.29	9.07	1.53	0.53	1.68	74.02
WARE AND RURALS	7.25	1.01	25.52	0.77	0.09	14.85	2.67	2.64	1.81	0.18	0.27	26.11	1.63	2.58	7.58	1.22	0.03	1.75	86.12
WELWYN GARDEN CITY A	9.18	0.77	25.87	0.71	0.05	13.17	2.65	2.13	1.92	0.46	0.20	20.42	1.30	1.37	7.02	1.11	0.38	1.55	89.89

On this page of conditions, we can see that the PCN has higher prevalence of Huntington's Disease, Chronic Respiratory Disease, Inflammatory Bowel Disease, Kidney Transplant, Osteoporosis and High BP.

PCN Benchmarking - A&E Activity

Higher bars indicate greater relationship with increased **AE Activity**



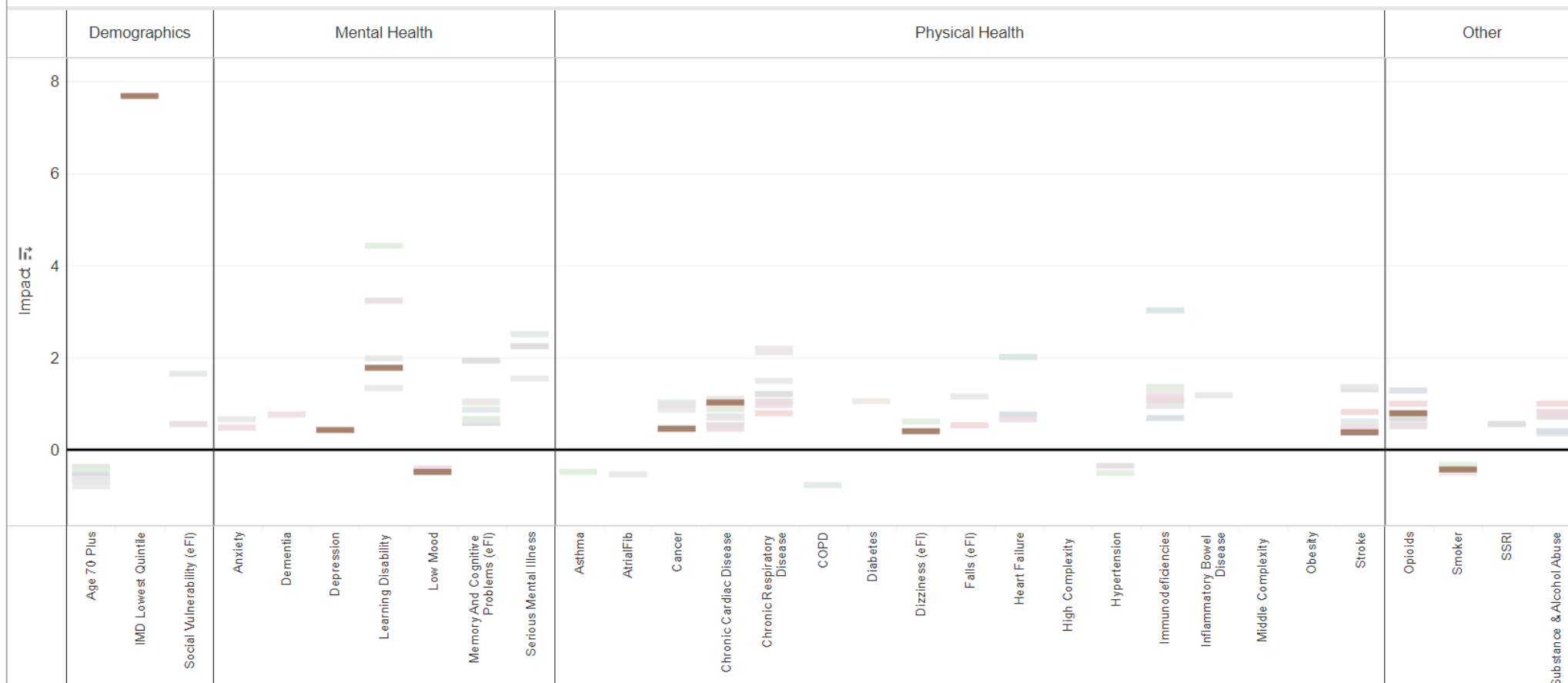
The charts in the next two pages show activity for the PCN compared against all other PCNs at the Place level.

The Model - A statistical regression model is used to decide which Risk Factors correlate with a significant impact on the selected targets as presented in these charts, the height of the bar for each PCN relates to the correlation of a Risk Factor and an increase in impact on the selected target condition.

The impact for the PCN is given and will vary for each characteristic; a wide variance may indicate differences in care or good practice which could be shared; some impacts are positive. Higher bars indicate a greater relationship with increased A&E attendances

PCN Benchmarking - Emergency Admissions

Higher bars indicate greater relationship with increased **Emergency Admissions**



This uses the same principles as the previous slide but looks at Emergency Admission.

Learning Disability admissions shows the most variance across all PCNs, meaning that characteristic has a high impact on emergency admissions.

Urgent and Emergency Care

As part of the ICB Urgent and Emergency Care Programme a needs analysis was undertaken.

Overall aim

* To understand what and where the need is for access to urgent and emergency care in Hertfordshire and West Essex

Objectives

- * To build a comprehensive picture of **who** needs to access UEC in HWE and who could be better cared for in alternative settings.
- * To understand the root causes of **why** people are accessing UEC when there could have been more appropriate alternative pathways
- * To build consensus among stakeholders around what the key issues in UEC are
- * To draw conclusions based on public health intelligence and triangulation of data to inform a successful and achievable UEC strategy

Some of the initial outputs from this work have been included within the next few pages, providing the PCN benchmarking.



Hertfordshire & West Essex ICB – East & North A&E Summary – Who are attending and why?

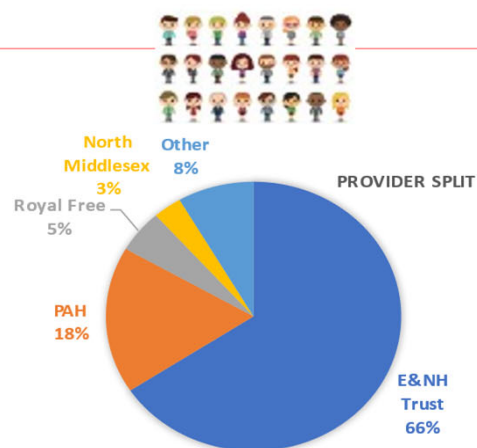
Children 0 -18
Adults 19 -64
Older People 65+

218,296 A&E Attendances in 2021/22

Children = 56,287 (25.8%)
Adults = 111,219 (50.9%)
Older People = 50,790 (23.3%)

57,811 26.5% of attendances resulted in
no investigation and no treatment
(includes Uncoded Activity)

Children = 19,082 (34%)
Adults = 30,658 (27.6%)
Older People = 6,944 (15.9%)

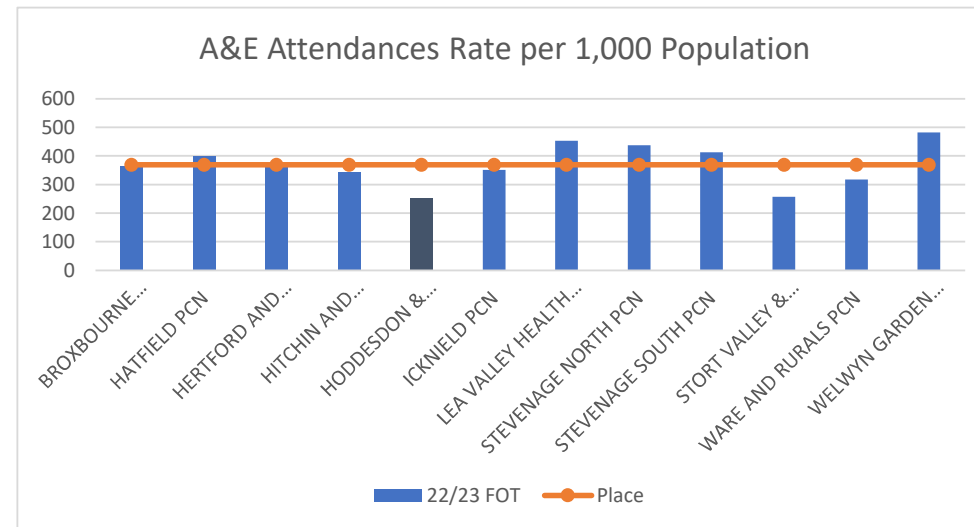
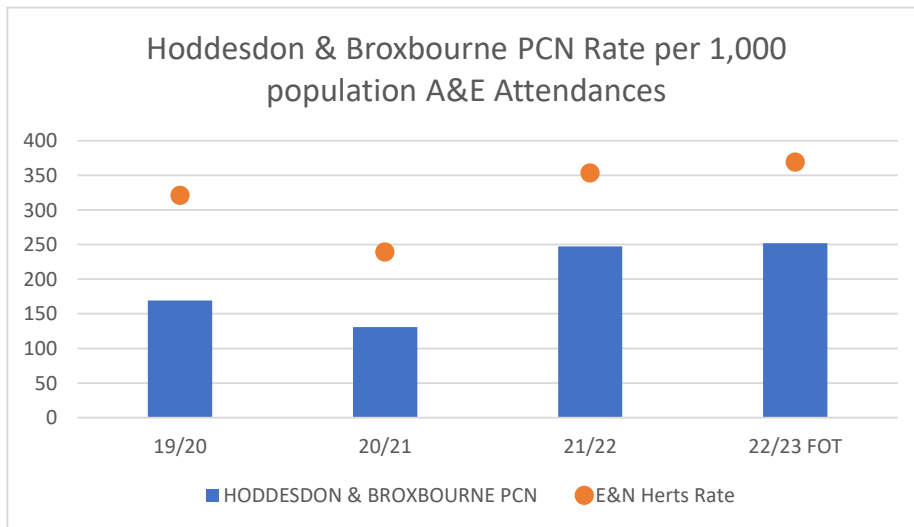
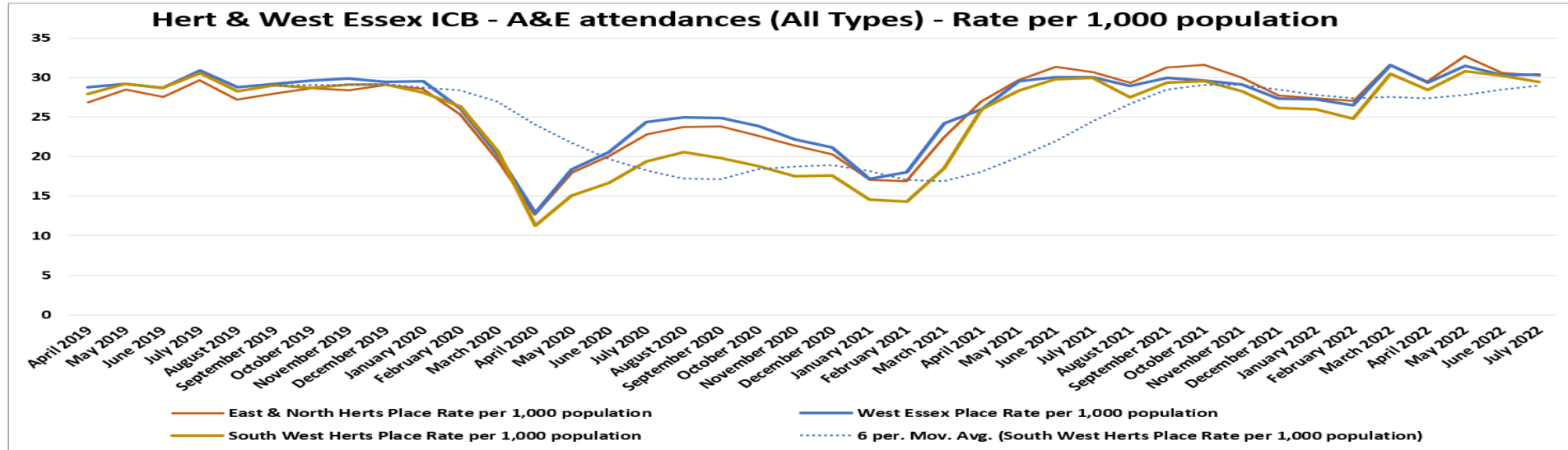


128,296 people attended A&E in 2021/22

Children = 34,197 (26.5%)
Adults = 68,101 (52.8%)
Older People = 26,873 (20.8%)

This translates to 1 in 5 people registered
with East & North attending A&E

Children = 1 in 4 children
Adults = 1 in 5 adults
Older People = 1 in 4 older people



Rates of A&E attendances across the ICB have returned to pre covid levels and above.

The impact of covid can clearly be seen in the top left chart.

Urgent & Emergency Care in 2022/23 for Hoddesdon & Broxbourne PCN A&E Attendance rates per 1,000 population, is the lowest to the place rate.

Unplanned Hospitalisation for Chronic Ambulatory Care Sensitive Conditions

This analysis looks at Unplanned hospitalisation for chronic ambulatory care sensitive conditions
NHS Outcomes Framework Methodology.

Between April 2021 and September 2022 there have been 11,953 people admitted 15,563 times for chronic ambulatory care sensitive conditions across the ICB.

Costed at tariff the value was approximately £42 million.

The table here shows the breakdown for Hoddesdon & Broxbourne PCN.

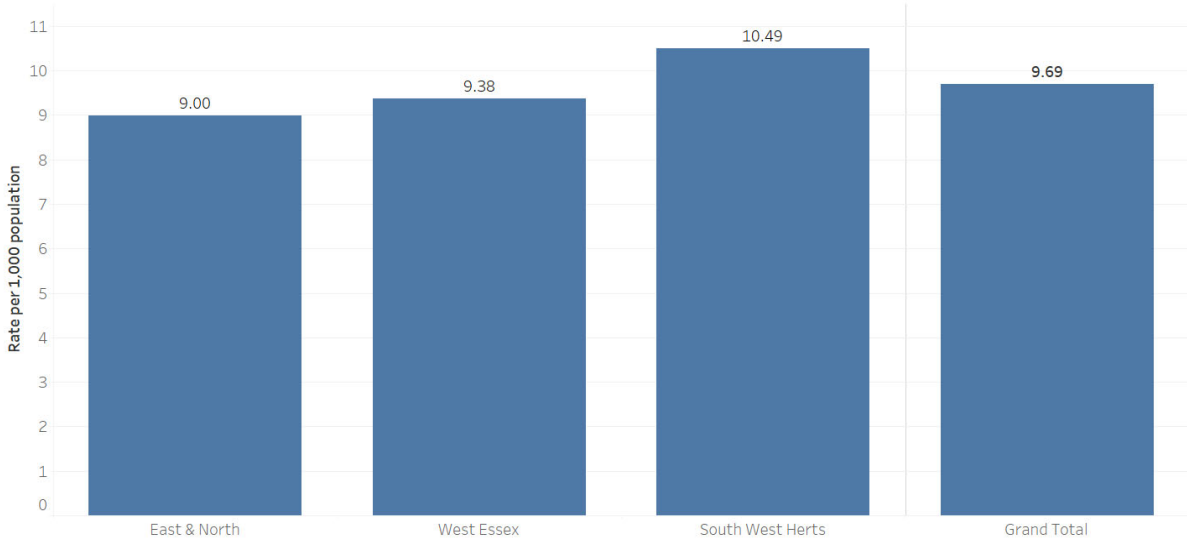
* Average cost for Mental and Behavioural is not representative as non-PbR

Chronic ACS admissions April 2021 - September 2022 Herts & West Essex ICB

Chronic ACS	Admissions	People	Average cost of admission	Tariff Total Payment National
CVD: AF and Flutter	58	50	£1,860	£107,903
CVD: Angina	14	13	£1,251	£17,516
CVD: Congestive Heart Failure	57	47	£5,221	£297,609
CVD: Hypertension	23	22	£881	£20,254
Diseases of the blood	24	22	£1,702	£40,846
Mental and Behavioural Disorders	3	3		
Neurological Disorders	11	8	£1,395	£15,340
Nutritional, endocrine and metabolic	25	24	£2,508	£62,700
Respiratory: Asthma	9	8	£1,286	£11,575
Respiratory: COPD	56	34	£3,251	£182,074
Grand Total	280	222	£2,699	£755,817

ACS Admission Rates per 1,000 Population by Place

Chronic Ambulatory Care Sensitive Conditions by Place
Rate per 1,000 Population
(Total Population)

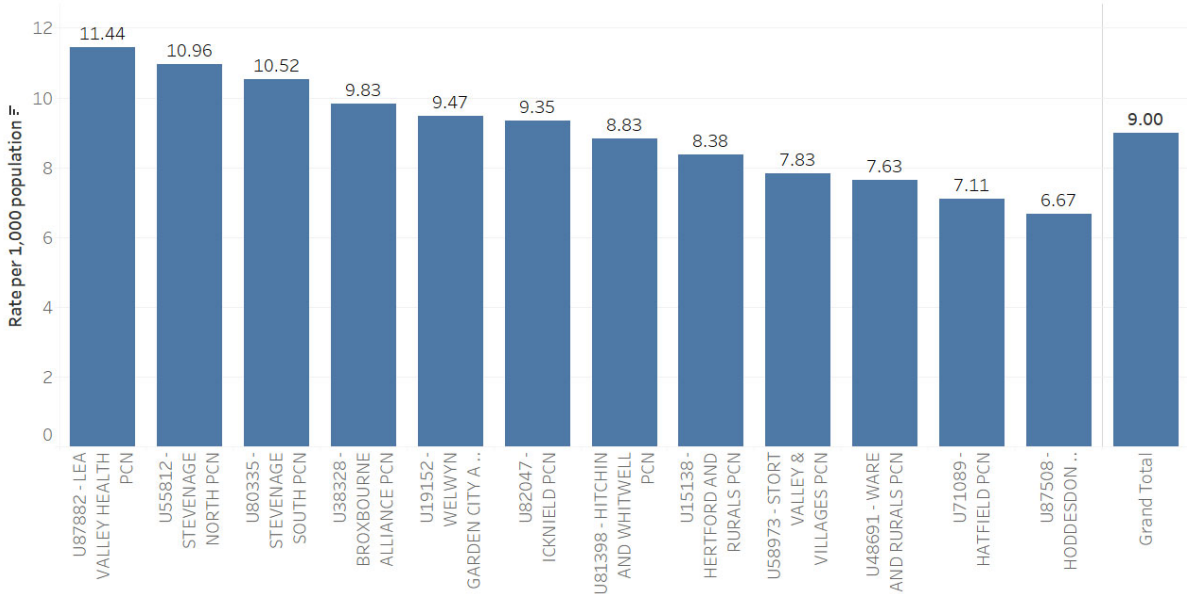


When comparing the Ambulatory Care Sensitive rates per 1,000 population between places, the East & North place has the lowest rate in the ICB.

Within East & North place, Hoddesdon & Broxbourne has the lowest rate per 1,000 population.

The following slides look at how this is broken down by the different ACSs and how the patients fall within the different segments.

Chronic Ambulatory Care Sensitive Conditions by Place
Rate per 1,000 Population
(Total Population)



Source: HWE PHM Team, SUS UEC data-sets

Chronic ACS by Segment

ACS by segment_age



The above chart looks at the ACS admissions by age and segment. The size reflects volume and the depth of colour reflects cost.

When looking at the ACS conditions for Hoddesdon & Broxbourne the highest volume and cost is within the End of Life, Frailty and Dementia in the over 65 age group and the next highest volume and cost is for the over 65 age group in the Advanced Disease and Complexity segment as well. It is to be noted that under End of Life, Frailty and Dementia and Advanced Disease and Complexity segments, there is a notable spread across 41-64 age group for volume and cost.

The following pages look at which ACSs contribute to this.

UEC by Advanced Disease & Complexity, and EOL, Frailty & Dementia

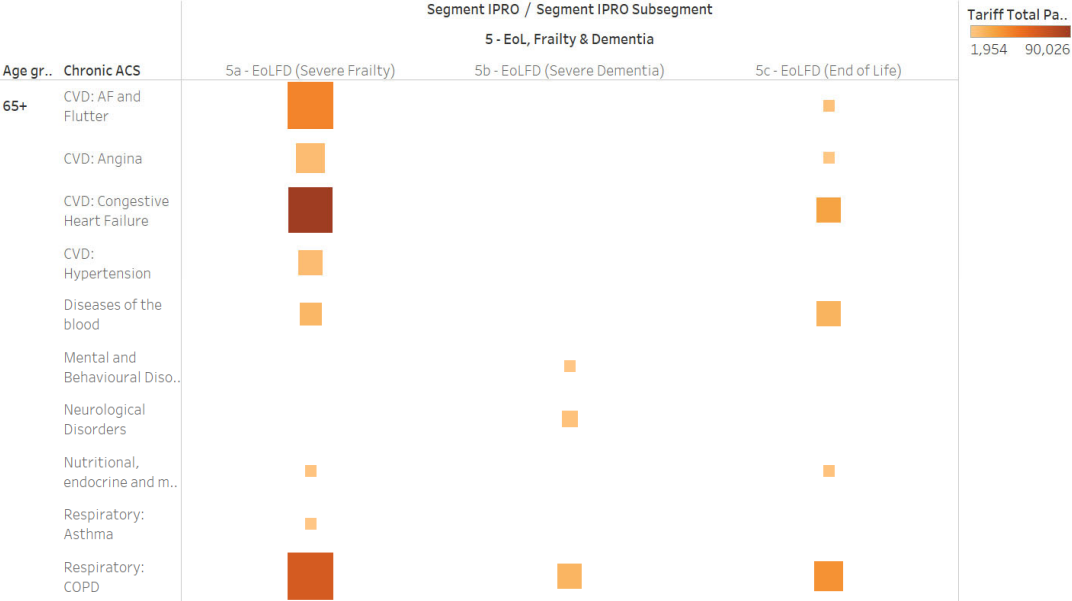
Segment 4



Ambulatory Care Sensitive conditions of note for people aged over 65 within the Advanced Disease and Complexity, is highlighted as AF and Flutter, Heart Failure and COPD, with the highest volume and cost.

For those people aged over 65 within the End of Life, Frailty & Dementia segment, Heart Failure, COPD and AF and Flutter, is highlighted with the highest volume and cost.

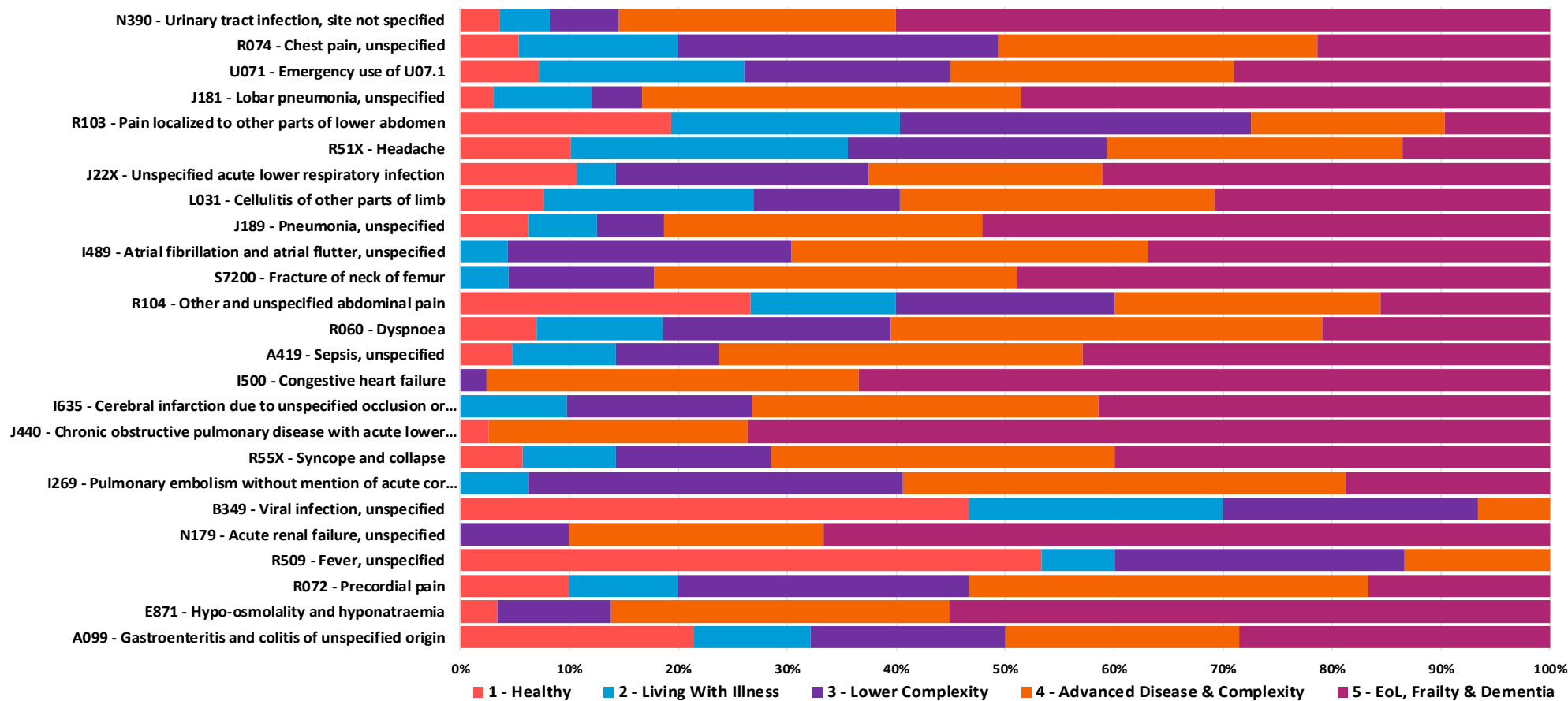
Segment 5



UEC Diagnoses by Segment

PCN Population - UEC Top 25 Primary Diagnoses by Segment

Highest Emergency Admissions from Top to Bottom



Here we have identified the top 25 primary diagnoses for the PCN's population, for all UEC admissions - and then these diagnoses split these by the health segments that each patient falls into to see where outliers are for the PCN.

UEC & Segmentation + Deprivation by Ward

UEC Patients Seen by Segment & Ward	1 - Healthy	2 - Living With Illness	3 - Lower Complexity	4 - Advanced Disease & Complexity	5 - EoL, Frailty & Dementia	Grand Total
Apsley and Corner Hall		1				1
Arbury				3		3
Baldock Town				4		4
Batchwood		1				1
Bishop's Stortford Central		1				1
Bishop's Stortford Meads					4	4
Broadley Common, Epping Upland and Na	1	4	12	10	20	47
Broxbourne and Hoddesdon South	85	101	121	195	252	754
Buckhurst Hill East	1					1
Chells				1		1
Chesfield			1		1	2
Cheshunt North	1	4	3	2		13
Cheshunt South and Theobalds		2	7		2	11
Chigwell Village			1			1
Chipping Ongar, Greensted and Marden Ash				1		1
Church Langley					2	2
Codicote	25	11	26	17		127
Colney Heath		1			48	49
Datchworth & Aston	2	1	2	14		26
Elsenham & Henham				1		1
Epping Hemnall			1			1
Flamstead End	1		3	1	3	8
Goffs Oak				1		1
Great Amwell	8	10	16	17		88
Great Parndon	2				3	5
Haldens	3	2	2	4	4	13
Handside	2	2		2	7	13
Harpden North	1					1
Hatfield East		1		2		3
Hatfield Heath					7	7
Hatfield South	1			2		3
Hatfield Villages		2			1	3
Hatfield West			1	3		4
Hertford Bengoe	1	1		3	5	10
Hertford Castle	2	3			1	7
Hertford Heath	16	11	19	14	10	70
Hertford Kingsmead	3	3	4	4	2	16
Hertford Rural North	3			3		7
Hertford Rural South	1	2	13	8	12	36
Hertford Sele		1	1		8	10
High Ongar, Willingale and The Rodings			1			1
Hitchin Oughton				1		1
Hitchin Priory	1			1		2
Hitchwood, Offa and Hoo	3			3	16	22
Hoddesdon North	79	104	155	204	257	799
Hoddesdon Town and Rye Park	44	64	118	169	146	541
Hollybush				2	2	4
Howlands			2	2	1	5
Hunsdon	1	1	1			3
Kimpton	1	5	9	7	9	31
Knebworth	8	12	6	12	39	77
Letchworth East		2				2
Little Parndon and Hare Street	1					1
London Colney		1				1
Longmeadow	1					1
Lower Nazeing	30	21	53	49	81	234
Manor	1					1
Marshalswick North					1	1
Martins Wood				1	2	3
Netteswell				1		1
Northaw and Cuffley		1			1	2
Old Town			1			1
Panshanger				1	7	8
Peartree	1		1	1	3	6
Pin Green	1					1
Potters Bar Furze Field				2	4	6
Potters Bar Oakmere		2				2
Potters Bar Parkfield			1			1
Roebuck				3	3	6
Rosedale and Bury Green		1	2	2	7	12
Roydon	5	10	12	38	64	129
Royston Heath		1				1
Saffron Walden Shire					1	1
Sandridge		1				1
Sawbridgeworth				2		2
Shenley		1				1
Shephall					3	3
Sherrards	3	6	6	6	8	29
Stanstead Abbots	4	12	22	21	10	69
Stansted North						1
Staple Tye	1					1
Thundridge & Standon		1				1
Waltham Abbey Honey Lane			2			2
Waltham Abbey South West				1		1
Waltham Cross		3		5	4	12
Ware Chadwell		1				1
Ware Christchurch	3	3			3	9
Ware St Mary's	1			1	1	3
Ware Trinity			2	4	2	8
Watton-at-Stone				1		1
Welwyn East	16	16	28	52	48	160
Welwyn West	42	21	36	69	66	234
Woodfield	1			2	4	6
Woodhall Farm						1
Wormley and Turnford	16	35	34	40	56	181
Unknown Ward	22	12	22	30	30	116
Grand Total	446	503	747	1038	1329	4063

UEC Patients Seen by Deprivation Quintile & Ward 1 = Most Deprived, 5 = Least Deprived	1	2	3	4	5 (blank)	Grand Total
Apsley and Corner Hall				1		1
Arbury					3	3
Baldock Town			4			4
Batchwood		1				1
Bishop's Stortford Central			1			1
Bishop's Stortford Meads					4	4
Broadley Common, Epping Upland and Na	47					47
Broxbourne and Hoddesdon South		189		565		754
Buckhurst Hill East			1			1
Chells		1				1
Chesfield		1	1			2
Cheshunt North	10	3				13
Cheshunt South and Theobalds	7		3	1		11
Chigwell Village				1		1
Chipping Ongar, Greensted and Marden Ash				1		1
Church Langley			2			2
Codicote			58	69		127
Colney Heath		1		1		2
Datchworth & Aston				26		26
Elsenham & Henham				1		1
Epping Hemnall			1			1
Flamstead End	3	1	2	2		8
Goffs Oak					1	1
Great Amwell		69			19	88
Great Parndon	1		4			5
Haldens	1	11		1		13
Handside		6	6		1	13
Harpden North			1			1
Hatfield East	1	2				3
Hatfield Heath					7	7
Hatfield South	1	2	2			5
Hatfield Villages		1	1	1		3
Hatfield West		3	1			4
Hertford Bengoe			4		6	10
Hertford Castle		3		4		7
Hertford Heath			38	32		70
Hertford Kingsmead			2		14	16
Hertford Rural North						7
Hertford Rural South			36			36
Hertford Sele	10					10
High Ongar, Willingale and The Rodings		1				1
Hitchin Oughton	1					1
Hitchin Priory				3		3
Hitchwood, Offa and Hoo			21	1		22
Hoddesdon North	124	141	180	347		799
Hoddesdon Town and Rye Park	257	101	183			541
Hollybush		3	1			4
Howlands		1	1	3		5
Hunsdon		2	1			3
Kimpton				31		31
Knebworth				71	6	77
Letchworth East				2		2
Little Parndon and Hare Street	1					1
London Colney			1			1
Longmeadow			1			1
Lower Nazeing		52	118	64		234
Manor				1		1
Marshalswick North					1	1
Martins Wood	2					2
Netteswell	1					1
Northaw and Cuffley				2		2
Old Town	1					1
Panshanger		2		5	1	8
Peartree	6					6
Pin Green	1					1
Potters Bar Furze Field				6		6
Potters Bar Oakmere			2			2
Potters Bar Parkfield					1	1
Roebuck	3	3				6
Rosedale and Bury Green	4	8				12
Roydon			129			129
Royston Heath				1		1
Saffron Walden Shire				1		1
Sandridge			1			1
Sawbridgeworth		2			1	3
Shenley			1			1
Shephall	1	2				3
Sherrards			6		23	29
Stanstead Abbots			33		36	69
Stansted North					1	1
Staple Tye	1					1
Thundridge & Standon				1		1
Waltham Abbey Honey Lane		2				2
Waltham Abbey South West	1					1
Waltham Cross	5	3	4			12
Ware Chadwell					2	2
Ware Christchurch			9			9
Ware St Mary's			1		2	3
Ware Trinity			7		1	8
Watton-at-Stone				1		1
Welwyn East				34	126	160
Welwyn West		118		116		234
Woodfield		6				6
Woodhall Farm			1			1
Wormley and Turnford	32	100	49			181
Unknown Ward					116	116
Grand Total	522	842	931	1323	329	4063

Source: HWE PHM Team, Combined population data re-extract via Optum, NHS England

It is also useful to note under which Wards that the PCNs population are linked to, and specifically here, where the admissions are highest.

The indication then for these patients split by health segments also adds a layer of importance when considering how the District Councils may help you investigate your population and where the wider determinants and health inequalities may be present.

It is also important to know that a Ward may be made up of different LSOAs, and therefore have different levels of deprivation as found in the Indices of Multiple Deprivation scoring given to us be the Government; in the graph quintile 1 is the Highest or Most deprived, and quintile 5 is the Least deprived.



Hospital Admissions

	Period	HERTFORDSHIRE AND WEST ESSEX	HODDESDON & BROXBOURNE PCN
Emergency admissions injuries due to falls in those aged 65+	2020/21	2026	2184.3
Emergency asthma, diabetes and epilepsy admissions (aged 0-18)	2020/21	130.8	169.2
Emergency admissions for children with lower respiratory tract infections (age 0-18)	2020/21	40.5	
Emergency admissions for chronic ambulatory care sensitive conditions	2020/21	505.9	496.7
Mental health admissions (all ages)	2020/21	177.2	79.4
Emergency Cancer Admissions	2020/21	494.9	403.6
Emergency admissions for acute conditions shouldn't require admissions	2020/21	611.6	631.6

■ Similar
 ■ Significantly Worse
 ■ Significantly Better

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Hertfordshire Public Health
Evidence & Intelligence
Epidemiology



The above table produced by the Hertfordshire Public Health Evidence and Intelligence team shows the emergency admissions data within fingertips.

Hoddesdon & Broxbourne PCN rates vary from significantly better and similar rate of admissions to the ICB, dependent on Admission categories.

Frailty Segment - Detailed PCN Breakdown

	Most deprived					Most affluent							
	1	2	3	4	5	6	7	8	9	10	NULL	PCN	ICS
Index of Multiple Deprivation Decile	1	2	3	4	5	6	7	8	9	10	NULL	PCN	ICS
Overall Population Measures													
Population		2	113	96	156	441	310	282	483	55	7	1945	37725
% of population in cohort		0.1%	5.8%	4.9%	8.0%	22.7%	15.9%	14.5%	24.8%	2.8%	0.4%	100.0%	100.0%
Avg. Age		81.5	75.0	74.5	73.3	76.4	75.6	80.0	77.8	73.8	80.4	76.7	75.6
% BAME Where recorded		0%	5%	2%	6%	5%	4%	3%	4%	0%	0%	4%	8%
Avg. number of Acute and Chronic Conditions		6.0	5.5	5.3	5.5	5.0	5.1	5.4	5.0	5.3	5.4	5.2	5.5
Activity Measure													
Emergency Admissions		0.0	0.5	0.4	0.6	0.5	0.5	0.5	0.5	0.7	1.0	0.5	0.6
A&E Attendances		0.0	0.8	0.8	0.9	0.8	0.8	0.8	0.7	1.1	0.9	0.8	0.9
GP Encounters		104.0	126.6	132.0	140.1	136.9	135.5	122.6	126.2	141.1	151.3	131.5	103.4
Admitted Bed Days		0.0	2.2	2.4	2.6	2.0	2.8	4.0	2.0	4.3	5.7	2.6	4.2
Physical Health													
Asthma		0.0%	20.4%	33.3%	28.2%	20.6%	23.5%	22.0%	21.1%	21.8%	14.3%	22.6%	25.2%
Cancer		0.0%	31.9%	33.3%	28.2%	26.5%	34.2%	39.7%	41.6%	38.2%	28.6%	34.5%	32.8%
Chronic Cardiac Disease		50.0%	43.4%	46.9%	46.8%	42.0%	42.6%	53.2%	43.3%	43.6%	71.4%	44.9%	47.5%
Chronic Respiratory Disease		0.0%	26.5%	31.3%	26.9%	21.3%	22.9%	24.1%	18.8%	20.0%	14.3%	22.5%	22.2%
CKD		0.0%	21.2%	16.7%	19.2%	19.3%	20.6%	23.8%	21.3%	21.8%	0.0%	20.6%	20.7%
Heart Disease		50.0%	35.4%	41.7%	41.7%	36.7%	36.1%	47.5%	39.8%	32.7%	28.6%	39.4%	39.1%
Hypertension		100.0%	77.0%	65.6%	80.1%	74.1%	71.9%	80.5%	73.5%	80.0%	71.4%	75.0%	74.5%
Diabetes		50.0%	48.7%	40.6%	51.3%	40.4%	44.8%	33.0%	39.3%	36.4%	28.6%	41.0%	42.8%
Obesity		100.0%	32.7%	37.5%	46.8%	37.4%	42.9%	29.1%	31.1%	38.2%	28.6%	36.0%	32.8%
Rheumatoid Arthritis		0.0%	5.3%	4.2%	5.8%	4.8%	6.8%	5.3%	5.8%	7.3%	0.0%	5.6%	5.3%
Stroke		0.0%	35.4%	19.8%	26.3%	29.7%	24.5%	33.0%	26.1%	38.2%	57.1%	28.3%	34.5%
Mental Health													
Anxiety		50.0%	36.3%	32.3%	41.7%	33.1%	36.5%	32.6%	35.4%	36.4%	57.1%	35.2%	29.0%
Depression		0.0%	30.1%	27.1%	28.2%	28.6%	27.4%	23.0%	24.6%	32.7%	28.6%	26.7%	33.6%
Dementia		100.0%	10.6%	9.4%	10.9%	17.2%	6.8%	9.6%	8.9%	18.2%	71.4%	11.4%	18.6%
Serious Mental Illness		0.0%	3.5%	7.3%	1.9%	2.9%	2.3%	2.1%	1.7%	1.8%	0.0%	2.5%	6.5%
Low Mood		0.0%	21.2%	19.8%	22.4%	19.0%	19.7%	10.6%	15.5%	18.2%	28.6%	17.5%	18.5%
Suicide		0.0%	0.0%	1.0%	2.6%	0.5%	1.0%	0.7%	0.2%	0.0%	0.0%	0.7%	1.5%
Mental Health Flag		50.0%	51.3%	51.0%	53.8%	50.8%	52.9%	46.5%	49.7%	54.5%	71.4%	50.7%	48.8%
Screening and Verification Refusal													
Bowel Screening Refused		0.0%	28.3%	30.2%	35.3%	22.2%	26.1%	22.3%	20.5%	27.3%	14.3%	24.3%	25.5%
Cervical Screening Refused		0.0%	1.8%	9.4%	4.5%	2.3%	2.3%	0.7%	1.2%	0.0%	0.0%	2.2%	3.6%
Flu Vaccine Refused		50.0%	22.1%	25.0%	28.2%	21.3%	23.2%	23.8%	18.0%	29.1%	0.0%	22.1%	26.4%
Wider Indicators													
Has A Carer		0.0%	15.0%	9.4%	10.3%	11.6%	9.4%	9.6%	10.8%	5.5%	42.9%	10.6%	19.0%
Is A Carer		0.0%	7.1%	16.7%	12.2%	10.9%	11.6%	12.1%	13.7%	14.5%	14.3%	12.1%	11.9%
MED3 Not Fit For Work (ever)		0.0%	14.2%	14.6%	21.2%	11.8%	18.1%	6.0%	10.6%	14.5%	14.3%	12.8%	13.4%
MED3 Not Fit For Work (in Last Year)		0.0%	3.5%	6.3%	3.8%	4.1%	5.2%	1.8%	1.2%	3.6%	0.0%	3.2%	3.5%
MED3 Not Fit For Work (in Last Six Months)		0.0%	2.7%	5.2%	3.2%	3.4%	3.9%	0.7%	1.2%	1.8%	0.0%	2.5%	2.8%
Avg. number of eFI Deficits		10.5	14.5	13.9	14.7	13.9	14.1	14.0	13.5	13.6	13.3	13.9	13.4
eFI_Housebound		0.0%	12.4%	12.5%	7.1%	7.5%	7.4%	9.6%	7.7%	5.5%	42.9%	8.4%	10.9%
eFI_SocialVulnerability		50.0%	47.8%	36.5%	45.5%	31.3%	35.2%	34.8%	35.6%	27.3%	0.0%	35.6%	27.3%
People_ChildrenInPoverty		34.5			17.8							26.1	15.5
Housing_FuelPoverty		16.5	14.2	13.1	13.1	11.2	11.7	8.1	7.9	5.8		10.3	11.1
Housing_OnePersonHousehold		32.4	43.0	25.2	26.6	27.6	24.9	25.9	18.5	26.1		25.3	28.3

14.8% of the general population in HWE ICB live within the 4 most deprived deciles, whilst 16.1% of the population in the EoL, severe frailty and severe dementia segment live within the 4 most deprived deciles.

In Hoddesdon & Broxbourne 10.8% of the population in the EoL, severe frailty and severe dementia segment live within the 4 most deprived deciles.

The average age of a person within the Frail and End of life segment increases with affluence, ranging from 69 in the most deprived decile to 77 within the most affluent decile within the ICB.

As we would expect the average number of acute and chronic conditions is significantly higher within this segment that the general population as are all activity measures. The average number of Chronic Conditions for people within Hoddesdon & Broxbourne PCN is lower than the ICB, and the data shows higher usage of GP services.

Within this segment we can see the presence of Obesity, Chronic Cardiac Disease, Diabetes, Stroke and Heart Disease being highlighted which chimes with the reason for admission within previous analysis for ACS conditions. It is to be noted that Hypertension is high across all deciles and just above the ICB. Mental Health flag is also high.

Applying Machine Learning factors without our data platform

Why Machine Learning?

With limited capacity available across the ICB available to review lists of patients it is important that the data available is used to its maximum to refine our process and target our resources where they will have the most impact.

The aim is to build the features identified from the machine learning in to system searches for EMIS and SystmOne.

Approach

- Trained several machine learning models on ~1 million linked patient records across ~200 features from the ICS segmentation dataset, for binary A&E risk prediction (will this patient use A&E within the next year?).
- Selected a final twin ensemble model with a binary classification accuracy of 81.3%.
- Extracted output probabilities for each class to estimate a risk score for each patient, and generated risk scores for all of the patients in the segmentation data. We can think of the risk score as the model's confidence in a patient requiring A&E.
- Partitioned the patient population into 3 distinct grades, Low, Medium and High risk, based on the machine learning predictions:

Risk grade	Range of predicted risk scores	Number of patients in grade	% of population in grade
High	0.8 to 1.0	22603	1.8
Medium	0.6 to 0.8	100446	8.1
Low	0.0 to 0.6	1115544	90.1

Creating search logic from significant features

- Features input to the predictive model include demographic features, diagnosis codes, prescribed medication, waitlist information and environmental factors such as housing and proximity to healthcare.
- Used feature rankings learned by the model to reduce the set of ~200 features to the 30 most significant features that best explain the variance in the predicted class (requiring A&E or not).
- Trained secondary machine learning models, 5-split decision trees, to classify patients into each of the three risk grades based on these 30 significant features.
- Extracted decision tree logic to create search filters for patients by risk grade. 5 splits → $2^5 = 32$ unique rules. These rules have been merged and prioritised (by considering individual accuracies and sample sizes) to maximise precision and recall in the final search filters.

Feature	Relative significance (%)
Age	15.03
Drug: Pain Management	10.22
Substance Abuse	4.19
Med3 Not Fit For Work	3.41
Stroke	3.03
eFI: Falls	2.23
Air Rank Quality	2.01
Waiting List Count All	1.83
...	...

Risk Grade:
High

Age < 3 AND Drug: Salbutamol AND eFI: Dyspnoea

Med3 Not Fit For Work (last six months) AND Substance Abuse AND ONE OF:-

- Drug: Pain Management AND eFI: Peptic Ulcer
- Chronic Cardiac Disease

Drug: Pain Management AND eFI: Falls AND ONE OF:-

- Stroke AND eFI: Memory and Cognitive Problems
- Stroke AND Substance Abuse
- End Stage Disease

Risk Grade:
Medium

Age < 3 AND ONE OF:-

- Drug: Salbutamol AND NO eFI: Dyspnoea
- On any waiting list

Med3 Not Fit For Work (last six months) AND Substance Abuse AND NO Chronic Cardiac Disease

Age < 45 AND Med3 Not Fit For Work (last six months) AND Drug: Pain Management

Drug: Pain Management AND Substance Abuse AND ONE OF:

- Drug: Opioids
- eFI: Falls AND NO Stroke AND NO End Stage Disease

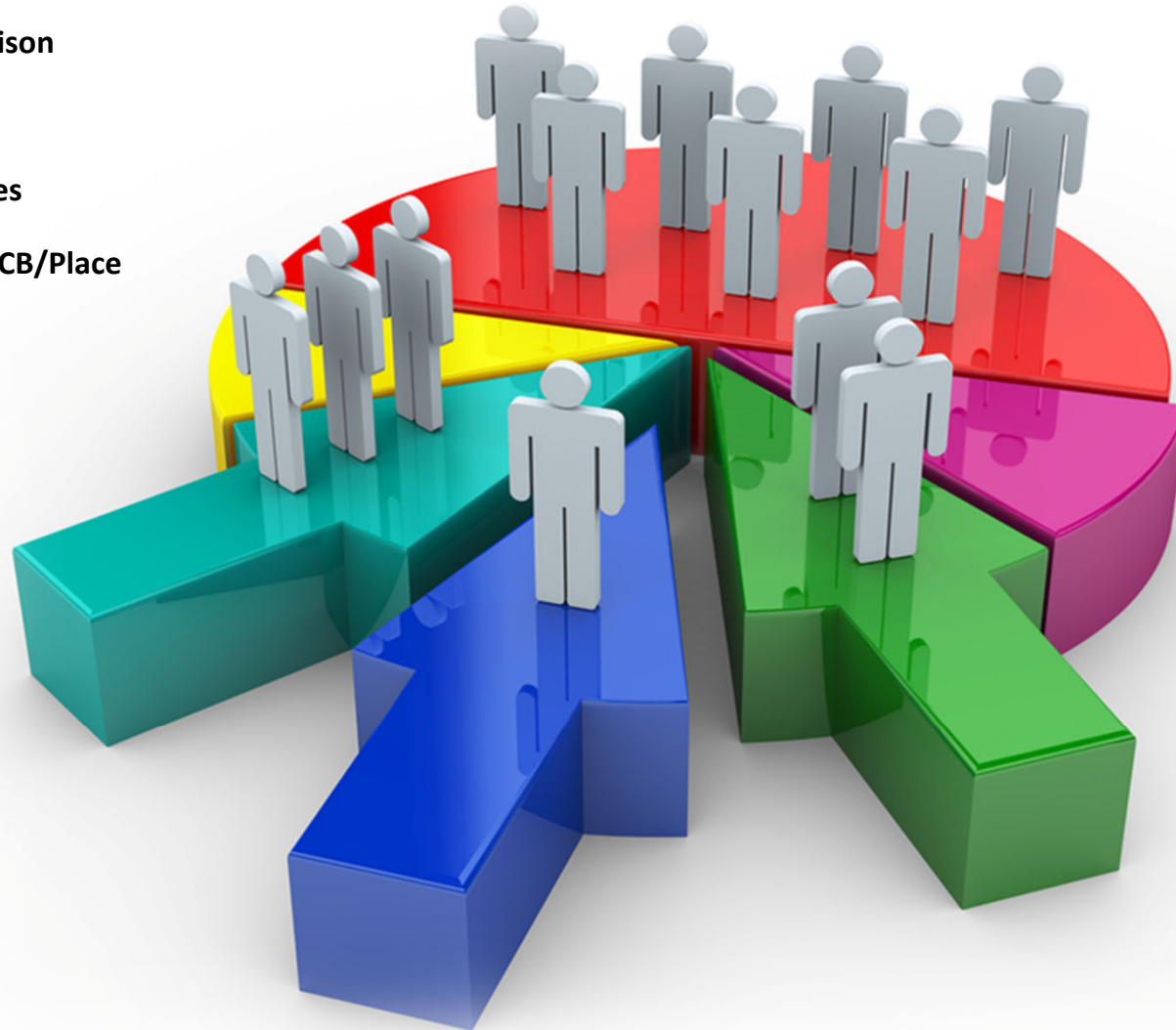
Risk Grade:
Low

All others

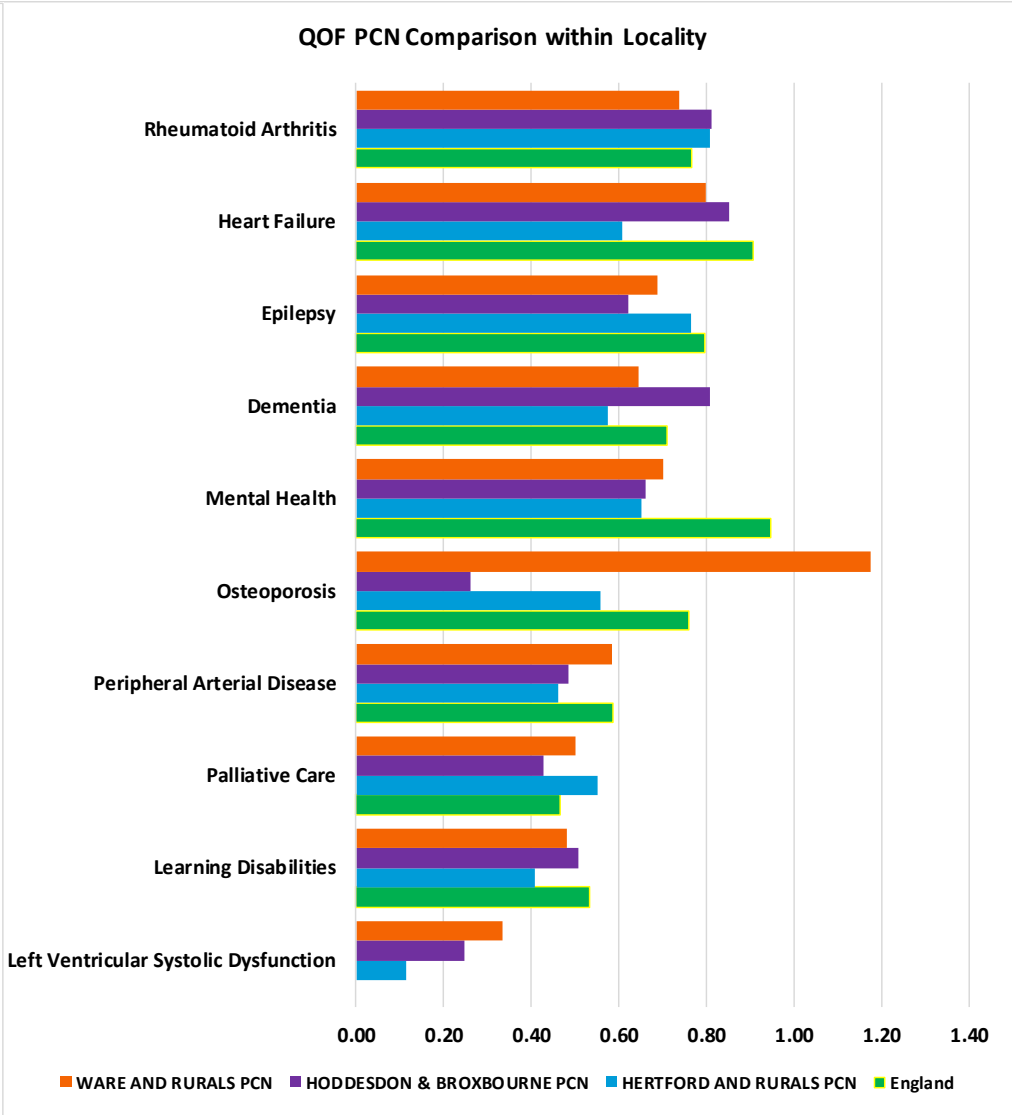
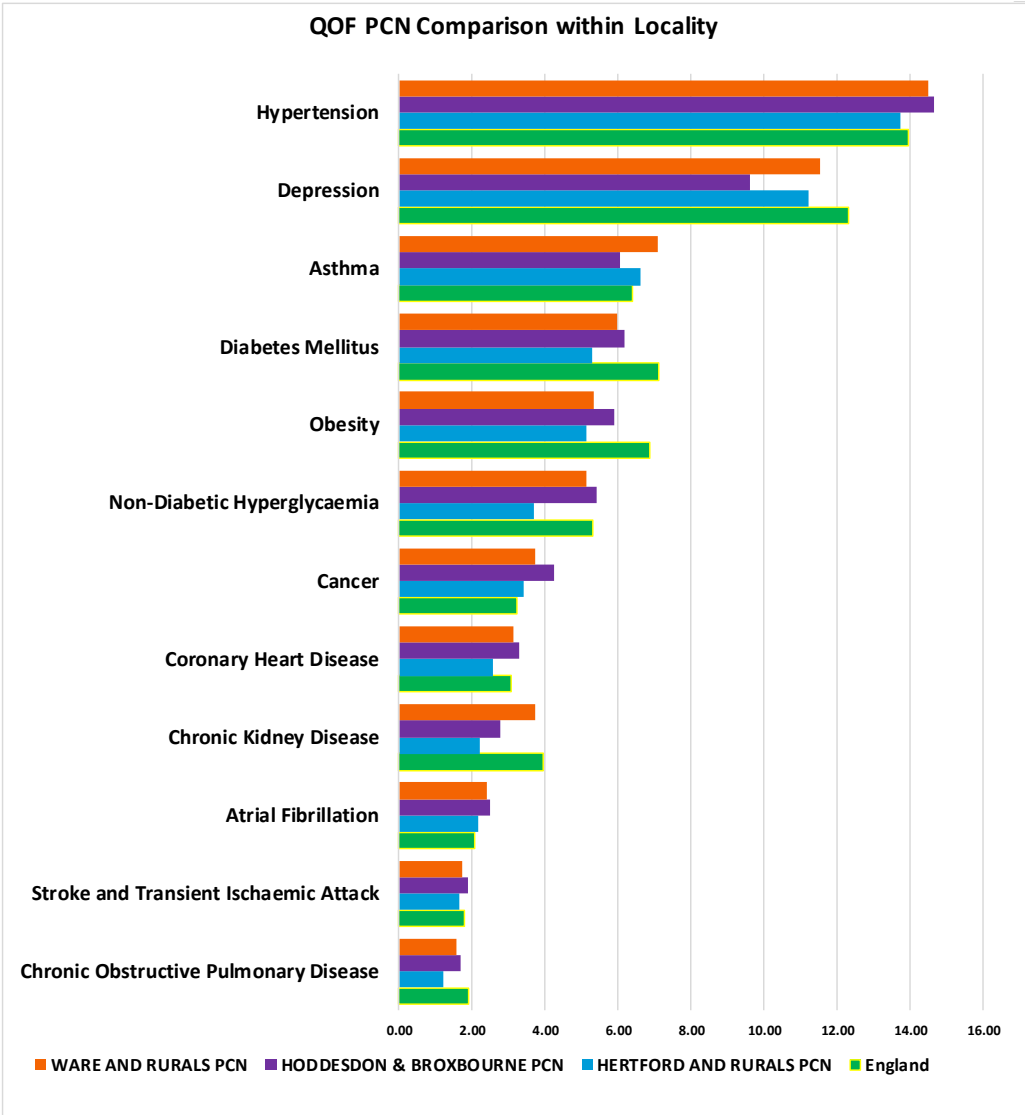
Quality & Outcomes Framework

Contents:

- QOF Local, Regional, & National Comparison
- QOF Locality & PCN Comparison
- QOF Missed Diagnoses & Admission Rates
- Admission Rates Benchmarking against ICB/Place



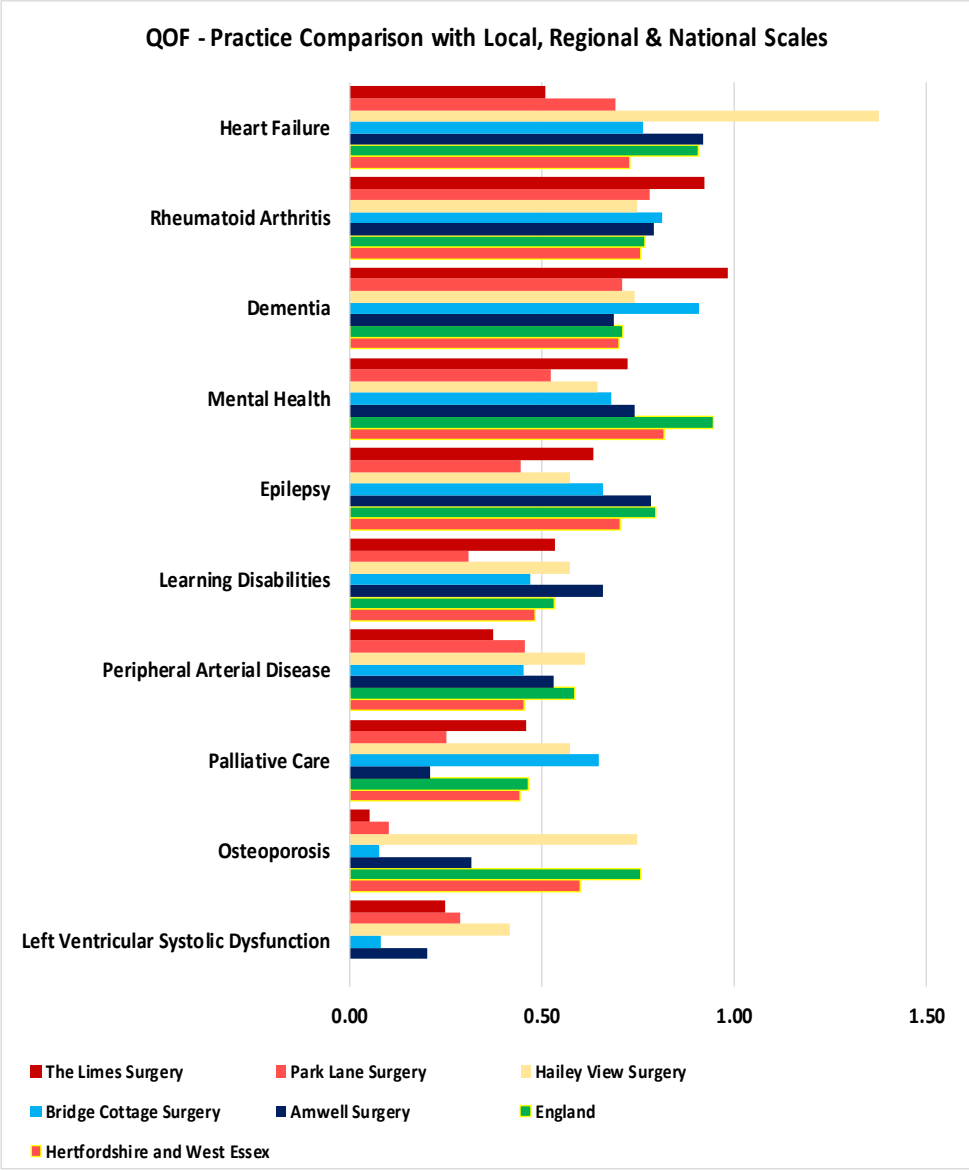
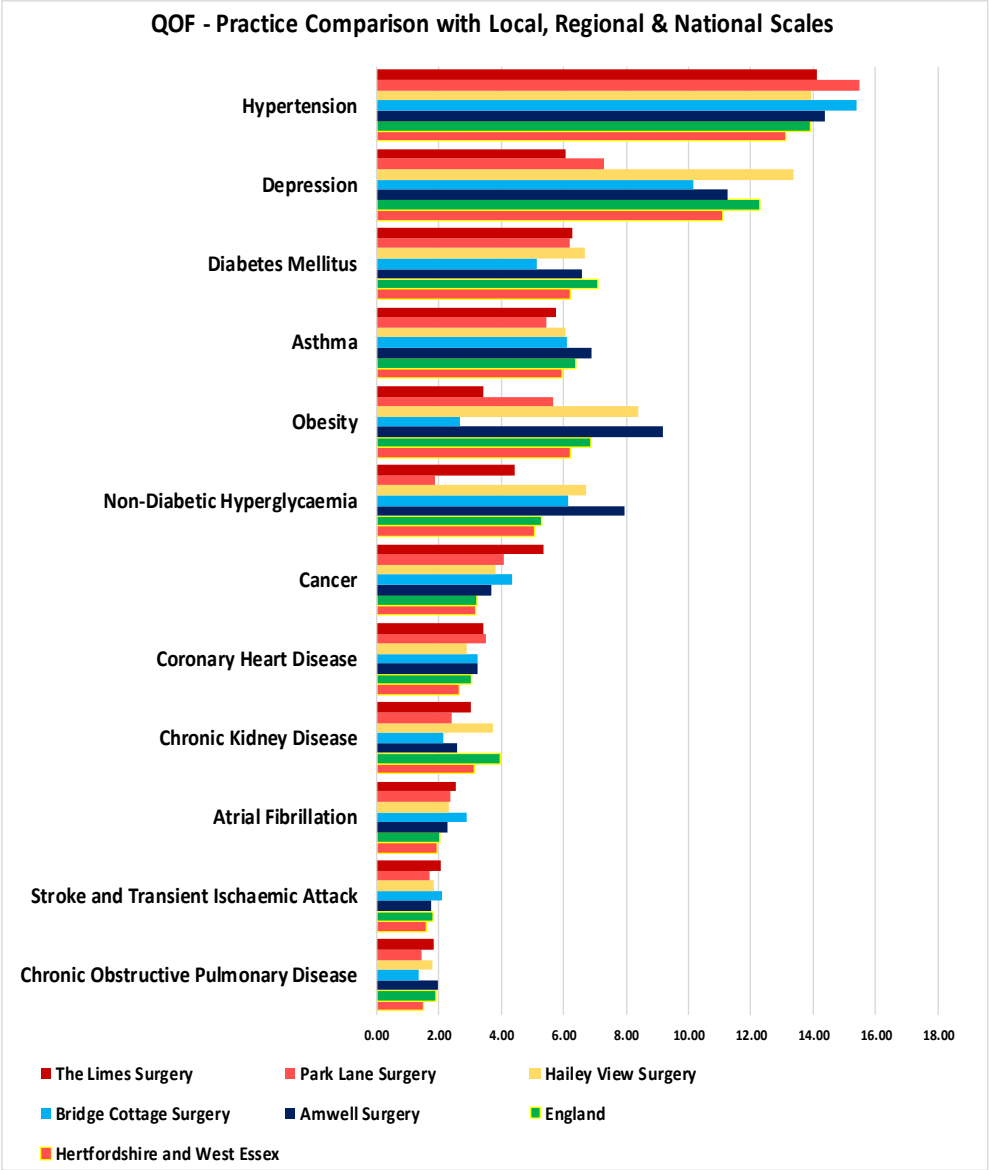
QOF - Locality & PCN Comparison



The Quality and Outcome Framework incorporates important benchmarking and scoring for all Practices across the county; we have combined a number of local, regional, and national data sets to highlight the areas that the PCN will need to consider.

In this graph we have shown all your neighbouring PCNs within the Locality, and benchmarked against England's average.

QOF - Local, Regional, & National Comparison



The charts here are similar to the previous slide but provides the comparison between practices within the PCN.

QOF - Missed Diagnoses & Admission Rates

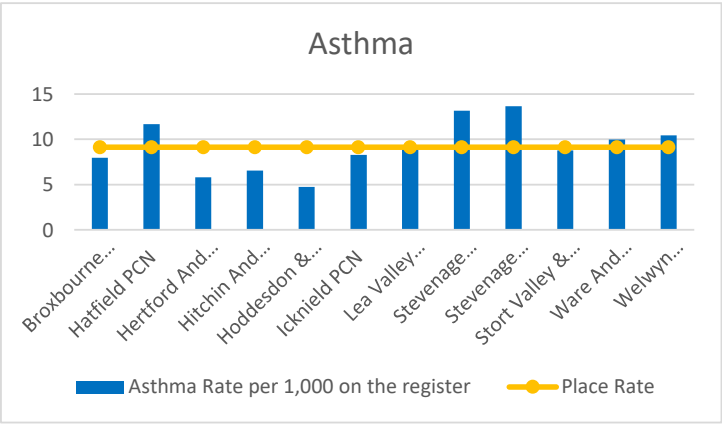
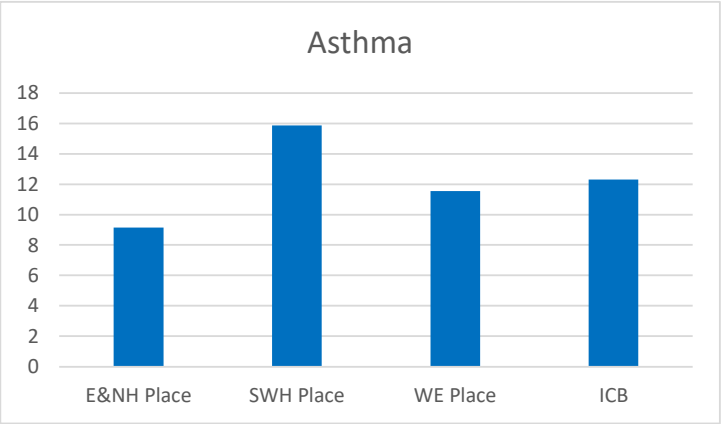
Disease	QOF List size 21-22	QOF Register 21- 22	QOF Prevalence 21/22	Place prevalence	ICB prevalence	Modelled prevalence	New diagnoses to meet Place average	new diagnoses to meet ICB average	New diagnoses to meet estimated prevalence
Asthma	39553	2539	6.42%	6.39%	6.17%		-12	-99	
COPD	41939	736	1.75%	1.54%	1.49%	2.22%	-92	-113	194
Diabetes	34131	2279	6.68%	6.29%	6.39%	7.78%	-132	-99	375
Non-diabetic hyperglycaemia	33517	2065	6.16%	4.63%	5.87%	10.87%	-513	-98	1579
Hypertension	41939	6263	14.93%	13.25%	13.21%		-704	-722	
Atrial Fibrillation	41939	1030	2.46%	2.01%	2.02%	3.03%	-186	-182	239
Stroke and TIA	41939	772	1.84%	1.70%	1.61%		-59	-97	
Coronary Heart Disease	41939	1375	3.28%	2.62%	2.65%		-275	-262	
Heart failure	41939	379	0.90%	0.71%	0.75%	1.53%	-81	-62	261
Left Ventricular Systolic Dysfunction	41939	126	0.30%	0.20%	0.30%		-42	0	
Chronic Kidney Disease	33517	949	2.83%	2.53%	3.21%		-101	126	
Peripheral Arterial Disease	41939	198	0.47%	0.46%	0.44%		-6	-12	
Cancer	41939	1820	4.34%	3.33%	3.35%		-424	-417	
Palliative care	41939	147	0.35%	0.50%	0.43%		63	33	

The table above shows the latest prevalence (2021/22 published August 20222) for the PCN alongside the place prevalence, ICB prevalence and the modelled prevalence for the PCN.

This table shows opportunities for further identification. It outlines the diagnoses to meet the place, ICB and estimated prevalence.

Within Ardens Manager there are case finding searches that can support PCN with identification.

Emergency Admission Rates per 1,000 population on the Disease Register



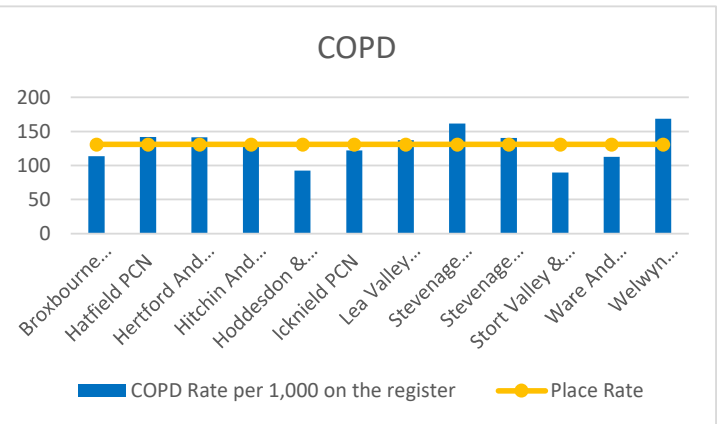
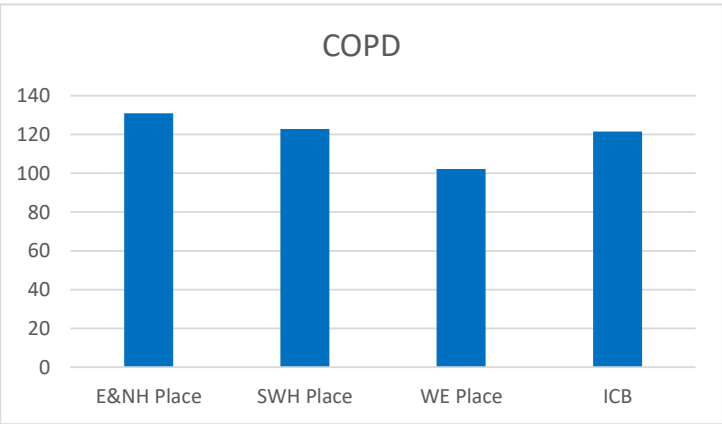
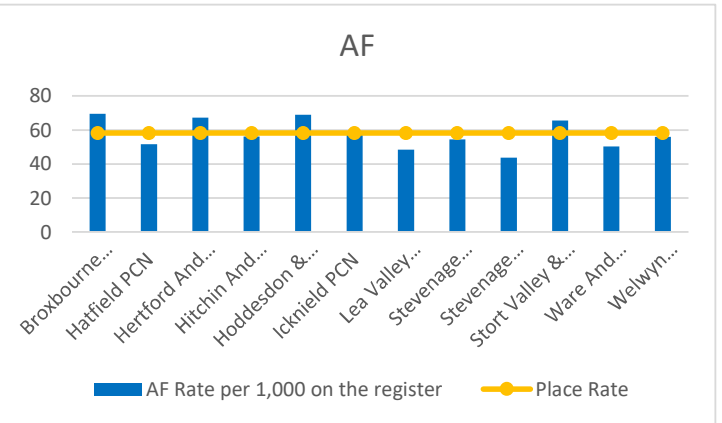
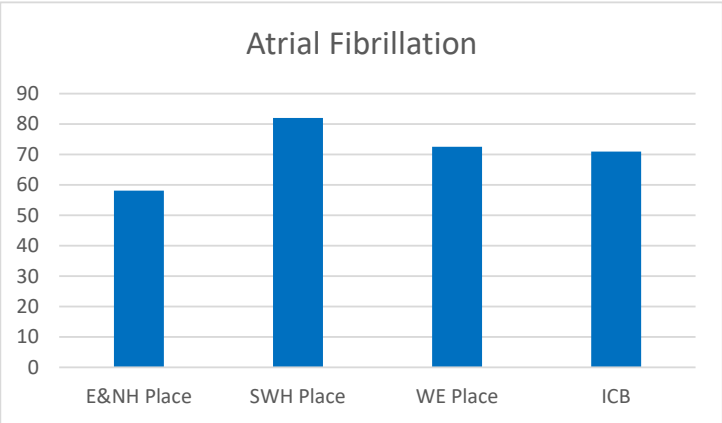
The charts on the left shows the Emergency Admissions Rates per 1,000 population on the disease register.

It shows the places compared with the ICB on the left and on the right it show the PCNs within a Place.

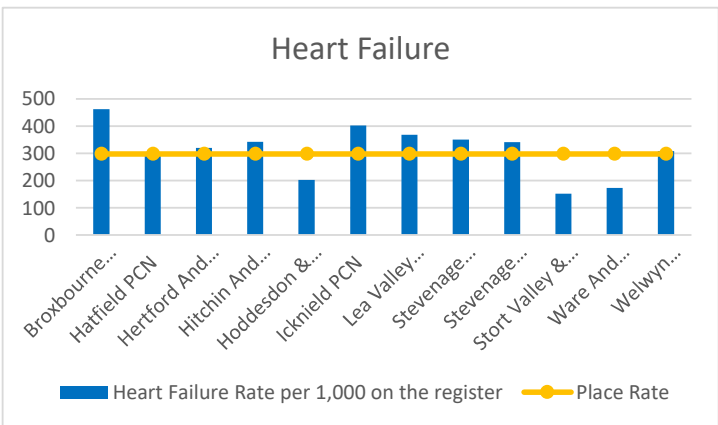
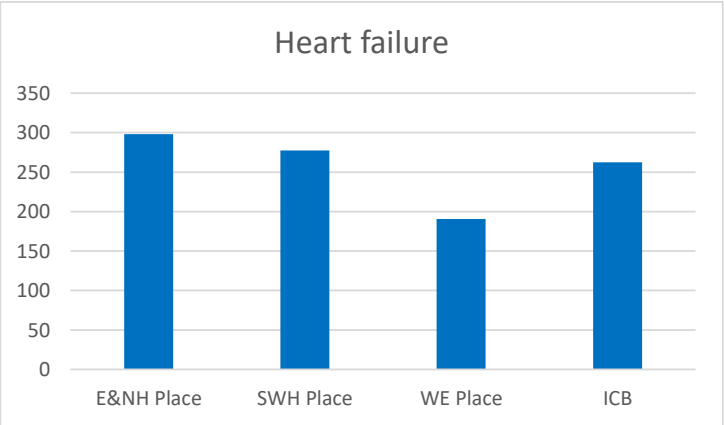
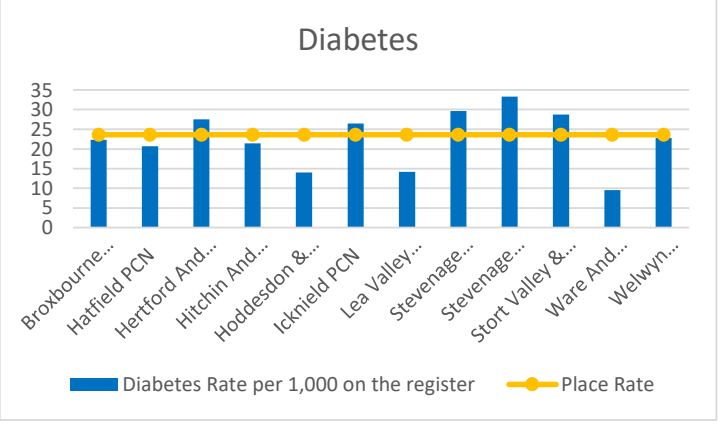
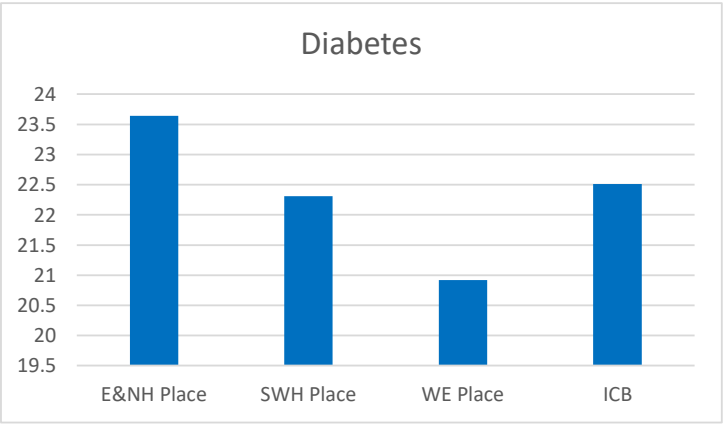
These are continued on the following place.

Rates may be high due to a number of factors which may include low identification.

For Hoddesdon & Broxbourne the data shows higher AF rates which was identified as a theme within the ACS analysis.



Emergency Admission Rates per 1,000 population on the Disease Register



Appendices

The following pages provide additional information breakdowns relating to the segmentation and population data

Contents:

- Matrix by Ethnicity
- Matrix by Health Segment & Subsegment
- Matrix by GP Activity
- Matrix by Health Segment & Deprivation
- Matrix by Practice & Deprivation
- Bubble Matrix on Conditions
- Bio-Psycho-Social Example
- Risk Factors by Prevalence against GP Activity & A&E
- Public Health Cancer Screening
- Public Health Mortality
- Public Health Life Expectancy
- Public Health Projection on Populations



Matrix Data - Ethnicity

Ethnicity Group		Other Ethnic Groups			Asian			Asian or Asian British		Black			Mixed			Other			White			Unknown			Grand Total
Complexity		Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	
Overall Population Measures																									
Population		423	121		334	190	16	47	11	413	222	14	405	160	15	400	291	47	16,296	14,460	2,143	3,350	1,103	18	40,482
Age		32	47	84	28	48	64	31	44	27	42	61	19	37	71	31	52	73	32	53	74	32	49	73	42
Male %		52.2%	55.4%	33.3%	41.9%	46.3%	75.0%	74.5%	72.7%	46.0%	43.7%	42.9%	48.6%	50.6%	26.7%	62.3%	46.7%	51.1%	52.7%	45.6%	49.5%	55.6%	53.7%	50.0%	50.1%
IMD		6.3	6.3	6.3	6.8	7.0	6.9	6.8	6.8	6.1	6.1	6.5	6.6	6.4	6.6	6.6	6.9	6.9	6.9	6.9	6.9	7.2	7.3	7.1	6.9
% BAME (where recorded)		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	0%	0%				9%
Multimorbidity (acute & chronic)		0.0	1.5	5.0	0.0	1.7	6.2	0.0	1.2	0.0	1.6	5.9	0.0	1.7	7.3	0.0	1.9	6.4	0.0	1.9	6.5	0.0	1.5	5.6	1.1
Finance and Activity Measures																									
Spend	Total	£0.1M	£0.0M	£0.0M	£0.1M	£0.1M	£0.0M	£0.0M	£0.0M	£0.1M	£0.2M	£0.0M	£0.1M	£0.1M	£0.1M	£0.2M	£0.3M	£0.1M	£4.9M	#####	£7.7M	£0.3M	£0.2M	£0.0M	#####
	PPPY - Total	£167	£314	£742	£395	£693	£1,597	£66	£139	£331	£809	£3,503	£338	£755	£4,940	£471	£1,180	£3,018	£300	£868	£3,611	£84	£219	£371	£679
Acute Elective		£39	£118	£502	£181	£312	£1,107	£16	£21	£135	£387	£1,917	£125	£311	£1,234	£181	£658	£829	£112	£429	£1,406	£22	£80	£150	£295
Acute Non-Elective		£60	£59	£0	£115	£198	£156	£0	£15	£115	£249	£1,157	£120	£257	£3,159	£191	£313	£1,792	£99	£245	£1,795	£9	£28	£0	£239
GP Encounters		£68	£136	£240	£100	£183	£335	£49	£103	£81	£173	£430	£93	£187	£547	£99	£209	£397	£89	£194	£410	£53	£111	£221	£144
Community		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Mental Health		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Social Care		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
GP PPPY		24	47	85	33	60	111	18	36	27	59	145	31	60	180	32	67	130	29	62	130	17	37	76	46
Beddays PPPY - Acute EM		0	0	0	0	0	1	0	0	0	1	2	0	0	5	0	1	3	0	0	3	0	0	0	0
Physical Health																									
Diabetes		0.0%	18.2%	33.3%	0.0%	33.7%	81.3%	0.0%	18.2%	0.0%	23.4%	64.3%	0.0%	16.3%	46.7%	0.0%	23.4%	66.0%	0.0%	15.4%	50.6%	0.0%	11.8%	55.6%	9.3%
COPD		0.0%	0.8%	0.0%	0.0%	0.0%	12.5%	0.0%	0.0%	0.0%	0.9%	7.1%	0.0%	1.9%	26.7%	0.0%	2.1%	31.9%	0.0%	2.2%	28.4%	0.0%	1.1%	22.2%	2.4%
Chronic Respiratory Dis...		0.0%	0.8%	0.0%	0.0%	0.0%	18.8%	0.0%	0.0%	0.0%	2.7%	28.6%	0.0%	4.4%	40.0%	0.0%	4.5%	42.6%	0.0%	3.4%	34.2%	0.0%	1.4%	22.2%	3.2%
Hypertension		0.0%	28.1%	100.0%	0.0%	33.7%	87.5%	0.0%	27.3%	0.0%	28.4%	71.4%	0.0%	15.6%	80.0%	0.0%	37.5%	83.0%	0.0%	32.2%	81.6%	0.0%	26.8%	94.4%	17.5%
Obesity		5.9%	14.0%	33.3%	1.5%	14.7%	56.3%	2.1%	0.0%	4.8%	22.5%	50.0%	3.0%	16.3%	40.0%	4.0%	30.2%	44.7%	9.1%	28.1%	39.8%	3.8%	17.7%	50.0%	17.4%
Mental Health																									
Anxiety/Phobias		0.0%	19.0%	33.3%	0.0%	10.0%	43.8%	0.0%	0.0%	0.0%	14.9%	57.1%	0.0%	22.5%	66.7%	0.0%	15.1%	53.2%	0.0%	22.7%	42.7%	0.0%	19.8%	66.7%	11.4%
Depression		0.0%	24.0%	0.0%	0.0%	14.7%	43.8%	0.0%	0.0%	0.0%	14.9%	35.7%	0.0%	23.8%	53.3%	0.0%	26.1%	40.4%	0.0%	27.7%	37.0%	0.0%	25.4%	50.0%	13.2%
Learning Disability		0.0%	2.5%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.5%	14.3%	0.0%	3.8%	0.0%	0.0%	1.4%	2.1%	0.0%	1.2%	2.5%	0.0%	1.0%	0.0%	0.6%
Dementia		0.0%	0.0%	0.0%	0.0%	0.0%	6.3%	0.0%	0.0%	0.0%	0.9%	0.0%	0.0%	0.6%	26.7%	0.0%	0.7%	4.3%	0.0%	0.9%	10.5%	0.0%	0.5%	5.6%	0.9%
Other Characteristics																									
Housebound (eFI)		0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	20.0%	0.0%	1.0%	2.1%	0.0%	0.7%	6.3%	0.0%	0.6%	5.6%	0.6%
Social Vulnerability (eFI)		0.0%	4.1%	33.3%	0.3%	10.5%	25.0%	0.0%	18.2%	0.5%	9.9%	28.6%	0.2%	7.5%	40.0%	0.8%	8.6%	34.0%	0.3%	9.1%	33.6%	0.2%	4.4%	33.3%	5.6%
History of Smoking (Tw...		6.6%	18.2%	0.0%	3.3%	8.4%	6.3%	10.6%	9.1%	1.9%	9.5%	14.3%	4.4%	11.9%	6.7%	6.5%	12.0%	17.0%	5.9%	11.6%	11.9%	3.2%	8.3%	11.1%	8.2%
Not Fit for Work (In Year)		1.9%	5.0%	0.0%	4.2%	6.8%	12.5%	0.0%	9.1%	4.8%	7.7%	7.1%	4.4%	9.4%	6.7%	5.5%	6.2%	2.1%	3.1%	6.8%	4.9%	1.2%	3.5%	0.0%	4.5%
On a Waiting List		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

PHM is underpinned by good linked data, with an appropriate method of extracting segmented or patients under key metrics; this matrix is showing the complexity of ethnic groups is broadly categorised across the PCN.

Matrix Data - Segment & Sub-Segment

Life Course Segment		1 - Healthy			2 - Living With Illness			3 - Lower Complexity			4 - Advanced Disease & Complexity			5 - EoL, Frailty & Dementia			Grand Total
Life Course Subsegment		1a - H (Low Risk)	1b - H (Maternity & Child)	1c - H (Acute Episodic)	2a - Lwl (At Risk)	2b - Lwl (LTCs)	2c - Lwl (MH)	3a - LC (Mod. Social Co..)	3b - LC (Multimorbidity)	3c - LC (Mild Frailty)	4a - AD&C (High Complexity)	4b - AD&C - High Social Complexity	4e - AD&C (End Stage Disease)	5a - EoLFD (Severe Frailty)	5b - EoLFD (Severe Dementia)	5c - EoLFD (End of Life)	
Overall Population Measures																	
Population		14,292	387	867	3,719	4,166	1,698	302	3,657	4,330	4,092	566	461	1,420	48	477	40,482
Age		28	14	23	46	45	41	54	52	50	54	67	69	77	85	74	42
Male %		57.6%	30.2%	57.2%	52.8%	57.7%	43.9%	48.3%	48.3%	36.4%	37.3%	40.6%	53.1%	42.9%	22.9%	41.9%	50.1%
IMD		6.9	6.8	6.8	6.8	7.0	6.7	6.8	6.8	6.9	7.0	6.9	6.8	6.9	6.7	7.2	6.9
% BAME (where recorded)		12%	16%	12%	9%	9%	7%	8%	6%	7%	5%	4%	7%	4%	4%	4%	9%
Multimorbidity (acute & chronic)		0.0	0.0	0.0	0.0	1.0	1.0	0.6	2.4	1.5	2.4	3.1	5.0	5.3	5.7	4.6	1.1
Finance and Activity Measures																	
Spend	Total	£1.4M	£0.4M	£1.3M	£1.6M	£2.0M	£0.7M	£0.1M	£2.7M	£3.5M	£5.0M	£0.8M	£1.5M	£4.4M	£0.2M	£1.9M	£27.5M
	PPPY - Total	£98	£967	£1,543	£426	£477	£386	£444	£751	£819	£1,224	£1,326	£3,154	£3,086	£3,548	£4,084	£679
Acute Elective		£26	£231	£695	£171	£213	£153	£238	£367	£407	£606	£544	£1,434	£1,176	£146	£1,697	£295
Acute Non-Elective		£12	£576	£706	£136	£135	£112	£70	£206	£220	£377	£513	£1,374	£1,504	£2,850	£1,979	£239
GP Encounters		£60	£159	£142	£119	£129	£121	£136	£177	£192	£241	£269	£345	£407	£552	£408	£144
Community		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Mental Health		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Social Care		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
GP PPPY		20	55	47	39	41	39	45	57	62	75	85	109	130	163	131	46
Beddays PPPY - Acute EM		0	1	1	0	0	0	0	1	0	1	1	2	3	5	4	0
Physical Health																	
Diabetes		0.0%	0.0%	0.0%	0.0%	9.5%	0.0%	10.9%	18.8%	16.3%	20.7%	24.7%	32.1%	45.1%	25.0%	30.4%	9.3%
COPD		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.8%	1.0%	4.4%	4.6%	60.5%	17.9%	16.7%	16.8%	2.4%
Chronic Respiratory Dis...		0.0%	0.0%	0.0%	0.0%	1.4%	0.0%	0.0%	4.0%	1.8%	5.7%	6.7%	67.5%	23.0%	16.7%	21.8%	3.2%
Hypertension		0.0%	0.0%	0.0%	0.0%	23.5%	0.0%	18.9%	33.5%	30.1%	37.0%	49.3%	60.5%	79.6%	68.8%	61.6%	17.5%
Obesity		0.0%	0.0%	0.0%	37.3%	19.6%	14.4%	25.5%	29.9%	26.1%	30.5%	31.3%	39.5%	39.6%	10.4%	27.9%	17.4%
Mental Health																	
Anxiety/Phobias		0.0%	0.0%	0.0%	0.0%	0.0%	34.2%	2.0%	39.8%	15.5%	23.6%	29.5%	21.7%	38.3%	35.4%	25.8%	11.4%
Depression		0.0%	0.0%	0.0%	0.0%	0.0%	54.9%	7.0%	46.4%	18.3%	27.3%	22.8%	25.4%	27.5%	33.3%	23.7%	13.2%
Learning Disability		0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	0.3%	1.6%	0.3%	0.7%	19.4%	1.3%	1.2%	8.3%	1.7%	0.6%
Dementia		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.5%	6.7%	2.6%	8.3%	100.0%	11.7%	0.9%
Other Characteristics																	
Housebound (eFI)		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.1%	1.1%	7.7%	16.7%	9.6%	0.6%
Social Vulnerability (eFI)		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	64.6%	4.9%	10.3%	11.2%	31.6%	25.4%	39.9%	8.3%	25.6%	5.6%
History of Smoking (Tw...		0.0%	0.0%	0.0%	26.4%	9.2%	12.1%	10.3%	14.3%	9.7%	11.4%	8.8%	22.1%	8.5%	4.2%	6.7%	8.2%
Not Fit for Work (In Year)		0.0%	0.0%	0.0%	13.4%	3.6%	7.4%	6.0%	8.1%	6.7%	8.0%	3.2%	8.0%	3.2%	0.0%	3.8%	4.5%
On a Waiting List		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

This matrix is important in defining the PCN's main segment and sub-segment health classifications, giving simple volumes but also linking how many as a percentage of each subsegment, have defined and diagnosed conditions.

Matrix Data - GP Activity

GP Activity	0			1		2-3			4-5			6-9			10+			Grand Total	
Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity		
Overall Population Measures																			
Population	658	51		281	32	1,036	124	8	1,040	165		2,827	576		15,826	15,610	2,239	40,482	
Age	29	41	64	29	48	23	34	83	21	32	78	25	35	60	34	53	74	42	
Male %	61.2%	56.9%	40.0%	60.9%	59.4%	63.5%	69.4%	25.0%	58.1%	62.4%	100.0%	62.5%	68.9%	50.0%	49.7%	45.1%	49.5%	50.1%	
IMD	6.6	6.7	5.4	6.8	7.3	6.7	6.5	5.8	6.9	6.8	7.0	6.9	6.7	6.0	6.9	6.9	6.9	6.9	
% BAME (where recorded)	17%	11%	40%	10%	7%	15%	16%	0%	10%	7%	0%	10%	8%	0%	11%	6%	4%	9%	
Multimorbidity (acute & chronic)	0.0	1.5	5.8	0.0	1.6	0.0	1.2	7.4	0.0	1.3	6.5	0.0	1.2	5.0	0.0	1.9	6.5	1.1	
Finance and Activity Measures																			
Spend	Total	£0.0M	£0.0M	£0.0M	£0.0M	£0.0M	£0.0M	£0.0M	£0.0M	£0.0M	£0.0M	£0.0M	£0.2M	£0.0M	£0.0M	£5.6M	£13.5M	£8.0M	£27.5M
	PPPY - Total	£29	£343	£3,145	£10	£32	£16	£13	£1,906	£27	£36	£106	£55	£62	£35	£355	£867	£3,576	£679
Acute Elective		£21	£278	£2,624	£5	£18	£5	£2	£18	£6	£12	£0	£17	£20	£0	£131	£426	£1,387	£295
Acute Non-Elective		£9	£65	£522	£1	£10	£3	£2	£1,882	£6	£9	£94	£14	£15	£0	£115	£243	£1,778	£239
GP Encounters		£0	£0	£0	£3	£3	£8	£9	£7	£14	£15	£12	£25	£27	£35	£108	£198	£411	£144
Community		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Mental Health		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Social Care		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
GP PPPY		0	0	0	1	1	3	3	2	5	5	4	8	8	10	35	63	131	46
Beddays PPPY - Acute EM		0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3	0
Physical Health																			
Diabetes		0.0%	3.9%	80.0%	0.0%	3.1%	0.0%	2.4%	50.0%	0.0%	1.8%	50.0%	0.0%	1.6%	0.0%	0.0%	16.5%	51.2%	9.3%
COPD		0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.3%	50.0%	0.0%	2.2%	28.2%	2.4%
Chronic Respiratory Dis...		0.0%	2.0%	20.0%	0.0%	3.1%	0.0%	0.8%	37.5%	0.0%	1.2%	0.0%	0.0%	1.7%	50.0%	0.0%	3.3%	34.1%	3.2%
Hypertension		0.0%	7.8%	80.0%	0.0%	28.1%	0.0%	12.1%	87.5%	0.0%	5.5%	100.0%	0.0%	6.4%	50.0%	0.0%	33.2%	81.7%	17.5%
Obesity		0.9%	7.8%	40.0%	1.1%	12.5%	1.8%	9.7%	37.5%	1.5%	4.8%	50.0%	2.8%	7.6%	0.0%	9.9%	28.1%	40.2%	17.4%
Mental Health																			
Anxiety/Phobias		0.0%	19.6%	40.0%	0.0%	18.8%	0.0%	13.7%	37.5%	0.0%	17.0%	0.0%	0.0%	18.8%	50.0%	0.0%	22.3%	43.5%	11.4%
Depression		0.0%	31.4%	60.0%	0.0%	21.9%	0.0%	24.2%	12.5%	0.0%	21.2%	0.0%	0.0%	20.7%	100.0%	0.0%	27.4%	37.2%	13.2%
Learning Disability		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	0.0%	0.0%	0.7%	0.0%	0.0%	1.2%	2.5%	0.6%
Dementia		0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	12.5%	0.0%	0.6%	50.0%	0.0%	0.2%	0.0%	0.0%	0.9%	10.2%	0.9%
Other Characteristics																			
Housebound (eFI)		0.0%	0.0%	0.0%	0.0%	3.1%	0.0%	0.0%	25.0%	0.0%	0.6%	50.0%	0.0%	0.2%	0.0%	0.0%	0.7%	6.2%	0.6%
Social Vulnerability (eFI)		0.0%	0.0%	0.0%	0.0%	3.1%	0.2%	1.6%	50.0%	0.2%	1.2%	50.0%	0.3%	1.4%	0.0%	0.3%	9.2%	33.5%	5.6%
History of Smoking (Tw...		1.1%	3.9%	0.0%	0.7%	3.1%	2.5%	4.0%	0.0%	1.6%	1.8%	0.0%	2.6%	4.3%	0.0%	6.6%	11.8%	12.0%	8.2%
Not Fit for Work (In Year)		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.0%	3.9%	7.0%	5.0%	4.5%
On a Waiting List		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Whilst the previous GP activity matrix was to investigate HIUs, this matrix has split out the GP activity by order of complexity; another method of looking at distinct patient volumes coming into the PCN which may be managed in a different way.

Matrix Data - Health Segment & Deprivation

Life Course Segment	1 - Healthy				2 - Living With Illness				3 - Lower Complexity				4 - Advanced Disease & Complexity				5 - EoL, Frailty & Dementia				Grand Total	
	Low Deprivation	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivation	Not known		
Deprivation																						
Overall Population Measures																						
Population	6,841	7,687	890	128	3,968	4,976	603	36	3,437	4,319	513	20	2,135	2,688	282	14	820	1,003	115	7	40,482	
Age	29	26	27	24	47	44	42	36	54	49	47	37	59	56	56	56	78	75	75	80	42	
Male %	55.7%	57.6%	58.8%	60.2%	53.0%	53.7%	53.7%	44.4%	44.1%	40.5%	42.9%	15.0%	39.5%	39.1%	37.6%	14.3%	45.0%	40.5%	39.1%	0.0%	50.1%	
IMD	8.7	5.9	2.8		8.7	5.9	2.9		8.7	5.9	2.9		8.7	5.9	3.0		8.7	6.0	3.0		6.9	
% BAME (where recorded)	11%	12%	20%	19%	7%	9%	12%	9%	6%	7%	10%	5%	5%	6%	5%	0%	3%	4%	5%	0%	9%	
Multimorbidity (acute & chronic)	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.8	1.8	1.9	1.5	2.6	2.7	3.1	2.7	5.2	5.1	5.5	5.4	1.1	
Finance and Activity Measures																						
Spend	Total	£1.4M	£1.5M	£0.2M	£0.0M	£1.7M	£2.2M	£0.2M	£0.0M	£2.6M	£3.4M	£0.4M	£0.0M	£2.7M	£4.0M	£0.4M	£0.0M	£3.0M	£3.2M	£0.3M	£0.0M	£27.5M
	PPPY - Total	£204	£196	£200	£215	£429	£450	£400	£1,357	£760	£786	£781	£795	£1,288	£1,482	£1,578	£2,581	£3,610	£3,165	£2,839	£5,719	£679
Acute Elective		£73	£63	£77	£61	£184	£189	£164	£370	£386	£385	£348	£286	£645	£697	£706	£138	£1,443	£1,165	£1,148	£340	£295
Acute Non-Elective		£63	£66	£55	£84	£121	£137	£113	£809	£196	£215	£231	£341	£405	£524	£583	£2,011	£1,772	£1,575	£1,296	£4,871	£239
GP Encounters		£68	£67	£67	£70	£123	£123	£122	£177	£178	£186	£202	£168	£238	£261	£288	£431	£395	£424	£395	£508	£144
Community		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Mental Health		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Social Care		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
GP PPPY		22	22	22	23	39	40	40	60	56	60	66	56	73	82	88	147	126	136	126	151	46
Beddays PPPY - Acute EM		0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	14	3	3	3	6	0
Physical Health																						
Diabetes		0.0%	0.0%	0.0%	0.0%	4.1%	4.1%	4.5%	8.3%	16.6%	17.3%	20.1%	10.0%	20.6%	23.1%	26.6%	7.1%	37.0%	43.5%	48.7%	28.6%	9.3%
COPD		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%	1.8%	2.1%	0.0%	8.1%	10.2%	12.8%	14.3%	15.4%	19.3%	18.3%	14.3%	2.4%
Chronic Respiratory Dis...		0.0%	0.0%	0.0%	0.0%	0.7%	0.6%	1.0%	0.0%	2.6%	2.7%	2.9%	0.0%	10.2%	12.0%	13.5%	14.3%	20.7%	23.6%	26.1%	14.3%	3.2%
Hypertension		0.0%	0.0%	0.0%	0.0%	11.3%	9.7%	7.1%	2.8%	33.8%	29.3%	30.8%	15.0%	42.0%	39.3%	41.1%	35.7%	76.3%	73.6%	77.4%	71.4%	17.5%
Obesity		0.0%	0.0%	0.0%	0.0%	23.8%	27.2%	23.9%	30.6%	25.4%	29.3%	30.8%	10.0%	26.8%	34.8%	34.8%	14.3%	30.9%	40.6%	33.9%	28.6%	17.4%
Mental Health																						
Anxiety/Phobias		0.0%	0.0%	0.0%	0.0%	5.9%	6.2%	5.6%	8.3%	22.4%	27.9%	30.0%	20.0%	21.2%	25.8%	29.1%	28.6%	34.5%	35.4%	36.5%	57.1%	11.4%
Depression		0.0%	0.0%	0.0%	0.0%	8.9%	10.2%	11.8%	5.6%	26.7%	32.6%	35.7%	25.0%	23.2%	28.5%	36.2%	14.3%	24.6%	28.0%	29.6%	28.6%	13.2%
Learning Disability		0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.3%	0.0%	0.7%	1.0%	1.0%	0.0%	1.8%	3.0%	7.8%	7.1%	0.6%	1.6%	7.0%	0.0%	0.6%
Dementia		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.0%	2.8%	4.3%	0.0%	9.8%	12.3%	12.2%	71.4%	0.9%
Other Characteristics																						
Housebound (eFI)		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%	2.0%	3.2%	0.0%	8.2%	7.9%	12.2%	42.9%	0.6%
Social Vulnerability (eFI)		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.3%	10.3%	10.9%	5.0%	13.5%	15.1%	21.3%	7.1%	34.8%	35.2%	47.8%	0.0%	5.6%
History of Smoking (Tw...		0.0%	0.0%	0.0%	0.0%	12.7%	18.6%	22.9%	16.7%	7.6%	14.1%	19.7%	0.0%	8.5%	13.4%	25.5%	21.4%	4.4%	10.1%	15.7%	0.0%	8.2%
Not Fit for Work (In Year)		0.0%	0.0%	0.0%	0.0%	6.1%	9.3%	11.4%	8.3%	5.0%	8.7%	11.1%	0.0%	5.8%	8.9%	6.7%	0.0%	1.6%	4.6%	3.5%	0.0%	4.5%
On a Waiting List		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Deprivation is an important marker for a variety of issues and not just in health, and this matrix has taken the PCN's population split them by health segment, and then further by high, middle, or low deprivation groupings - this may further allows the PCNs to target that selected cohort of individuals to find where the determinants may be, and where a targeted approach from local partners, could be directed.

Matrix Data - Practice & Deprivation

		Amwell Surgery				Hailey View Surgery				Park Lane Surgery				The Limes Surgery				Grand Total
Practice		Low Deprivation	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivation	Not known	
Deprivation																		
Overall Population Measures																		
Population		3,661	7,890	1,261	61	3,728	5,895	345	48	6,795	2,847	330	82	3,017	4,041	467	14	40,482
Age		45	40	40	36	39	41	38	31	45	44	44	28	47	44	43	37	42
Male %		49.9%	49.9%	50.8%	45.9%	50.3%	49.1%	46.7%	54.2%	49.8%	49.1%	53.6%	45.1%	51.3%	51.4%	51.4%	50.0%	50.1%
IMD		8.9	5.7	2.9		8.9	6.1	2.8		8.5	6.1	2.9		8.7	5.8	3.0		6.9
% BAME (where recorded)		6%	11%	14%	18%	9%	11%	12%	5%	9%	7%	15%	15%	5%	5%	8%	0%	9%
Multimorbidity (acute & chronic)		1.3	1.1	1.1	1.1	0.9	1.2	1.0	0.5	1.0	1.1	1.3	0.4	1.2	1.1	1.3	0.2	1.1
Finance and Activity Measures																		
Spend	Total	£2.6M	£5.4M	£0.7M	£0.1M	£2.2M	£4.1M	£0.2M	£0.0M	£4.5M	£2.0M	£0.2M	£0.0M	£2.1M	£2.8M	£0.4M	£0.0M	£27.5M
	PPPY - Total	£704	£681	£585	£1,442	£592	£692	£589	£663	£662	£706	£678	£558	£709	£702	£911	£206	£679
Acute Elective		£333	£301	£253	£149	£242	£267	£191	£135	£298	£350	£274	£175	£322	£293	£433	£92	£295
Acute Non-Elective		£230	£242	£194	£1,131	£204	£260	£216	£355	£239	£225	£276	£276	£226	£255	£297	£20	£239
GP Encounters		£141	£138	£138	£162	£145	£165	£182	£173	£125	£131	£128	£107	£161	£155	£181	£93	£144
Community		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Mental Health		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Social Care		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
GP PPPY		50	49	49	55	50	57	63	61	41	43	42	34	37	36	42	22	46
Beddays PPPY - Acute EM		0	0	0	4	0	0	0	0	0	0	0	0	0	0	1	0	0
Physical Health																		
Diabetes		14.1%	12.3%	12.4%	6.6%	7.9%	9.0%	5.5%	2.1%	6.9%	7.5%	10.6%	3.7%	6.5%	7.3%	10.9%	0.0%	9.3%
COPD		2.5%	2.6%	2.6%	3.3%	1.9%	2.6%	2.9%	2.1%	1.7%	2.6%	3.3%	0.0%	2.6%	2.7%	3.0%	0.0%	2.4%
Chronic Respiratory Dis...		3.2%	3.4%	3.6%	3.3%	2.5%	3.4%	4.1%	2.1%	2.7%	3.4%	3.6%	0.0%	3.7%	3.5%	3.9%	0.0%	3.2%
Hypertension		21.6%	16.2%	14.7%	11.5%	13.4%	16.3%	12.8%	4.2%	17.8%	19.7%	18.8%	6.1%	20.9%	18.5%	24.6%	0.0%	17.5%
Obesity		19.2%	19.0%	19.3%	9.8%	19.5%	25.3%	23.8%	10.4%	13.7%	16.4%	15.2%	6.1%	9.2%	12.3%	13.7%	7.1%	17.4%
Mental Health																		
Anxiety/Phobias		12.6%	13.1%	13.2%	11.5%	11.1%	14.6%	13.6%	2.1%	9.0%	10.0%	13.6%	8.5%	8.4%	9.5%	11.6%	0.0%	11.4%
Depression		13.2%	14.1%	14.5%	9.8%	11.2%	15.8%	18.0%	8.3%	10.8%	13.6%	21.8%	1.2%	11.0%	12.9%	15.6%	0.0%	13.2%
Learning Disability		0.6%	0.8%	1.0%	0.0%	0.2%	0.8%	2.3%	2.1%	0.3%	0.6%	1.8%	0.0%	0.6%	0.6%	2.1%	0.0%	0.6%
Dementia		0.8%	0.8%	0.7%	8.2%	0.7%	1.0%	1.7%	0.0%	1.0%	0.7%	1.5%	0.0%	0.7%	1.3%	1.3%	0.0%	0.9%
Other Characteristics																		
Housebound (eFI)		0.6%	0.8%	0.9%	4.9%	0.5%	0.6%	0.3%	0.0%	0.8%	0.9%	2.4%	0.0%	0.1%	0.2%	0.6%	0.0%	0.6%
Social Vulnerability (eFI)		13.9%	10.5%	10.0%	0.0%	3.0%	3.4%	3.5%	0.0%	3.3%	3.5%	5.8%	2.4%	1.8%	1.7%	3.0%	0.0%	5.6%
History of Smoking (Tw...		8.2%	12.2%	16.0%	9.8%	6.3%	9.8%	14.2%	2.1%	4.8%	7.4%	10.9%	2.4%	4.0%	6.0%	9.0%	0.0%	8.2%
Not Fit for Work (In Year)		4.3%	5.9%	6.4%	1.6%	3.0%	5.6%	8.1%	0.0%	2.6%	4.3%	6.4%	2.4%	3.4%	5.0%	4.1%	0.0%	4.5%
On a Waiting List		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

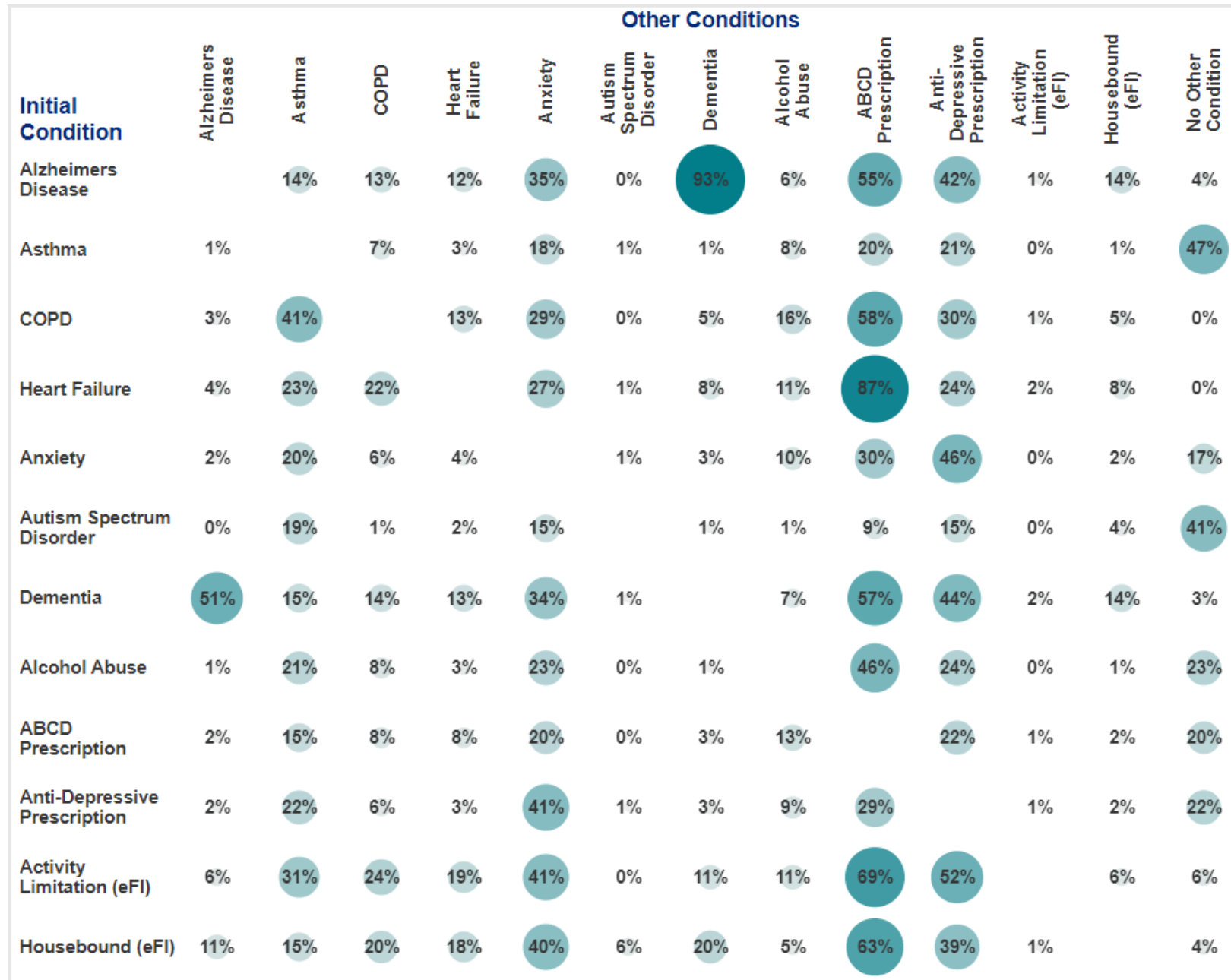
This detailed table is offering actionable insight across the PCN's population for each Practice and where their populations are in terms of a High, Medium, or Low deprivation ranking; deprivation is levied from the IMD 2019 scoring per LSOA, and is applied for every individual registered within the PCN's borders.

Bubble Matrix - Conditions

x% also have

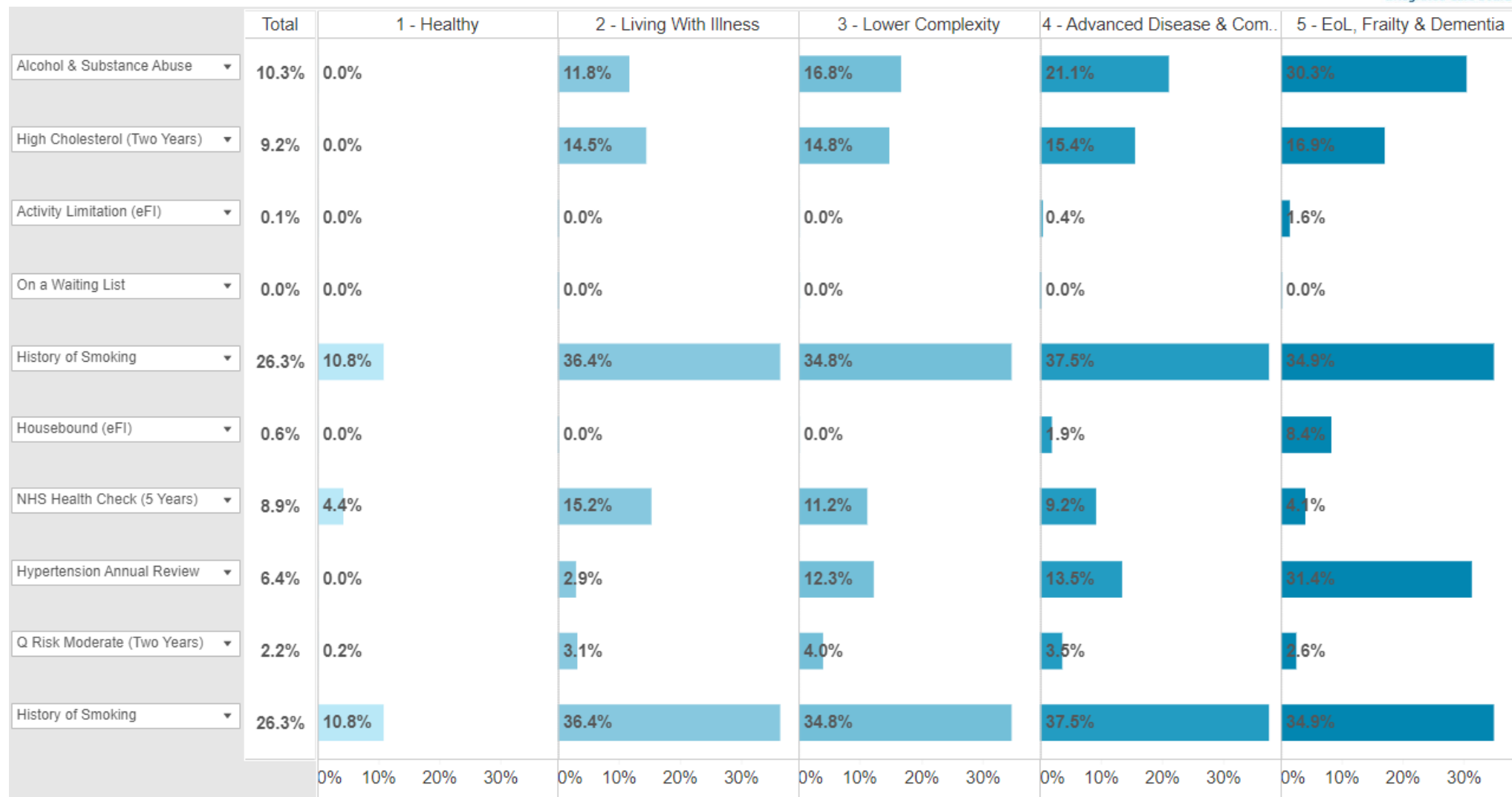


For people with this condition



When targeting specific conditions to look into, a simple Bubble matrix helps us understand that a single condition will rarely be occurring by itself; this chart then highlights the PCN's linked conditions and breaks down the common diseases linked together in the PCN.

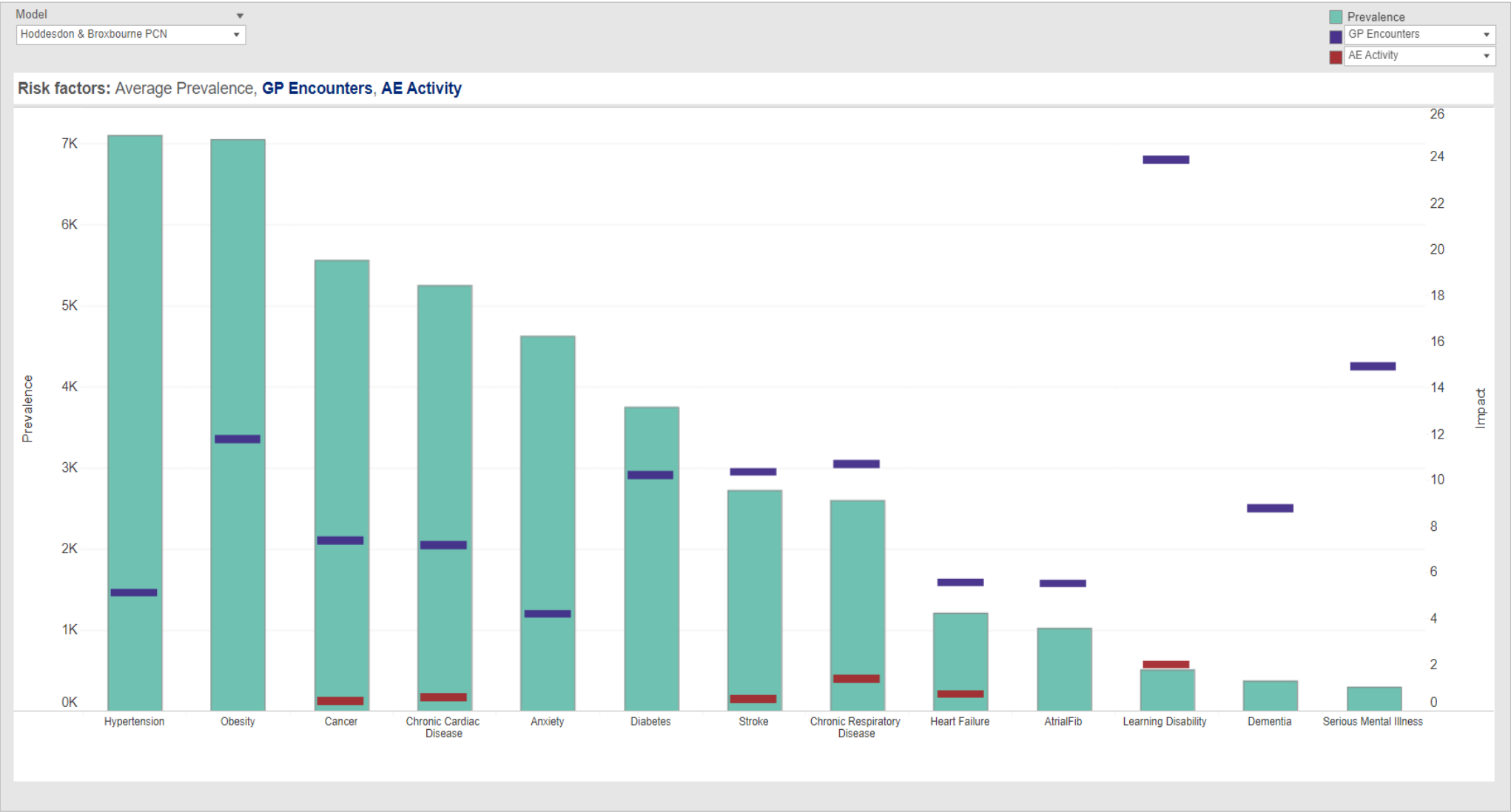
Bio-Psycho-Social Indicators - Example



This chart gives a comparison across various selected risk conditions or characteristics, within the health segments of the PCN's population.

Here we have selected a few characteristics within the PCN's data as an example, within each segment the percentage with that risk condition is highlighted proportionately by the shaded bars in the chart.

Risk Modelling - Prevalence against GP Activity & A&E



This Risk Model looks at the PCN's prevalence for major conditions, and this chart illustrates the number of people with certain risk factors, and also shows the impact on service utilisation, that these factors have. The height of each bar for each risk factor, shows the number of people who meet that criteria, as shown on the left hand axis; the horizontal lines relate to the correlation of a risk factor and an increase in impact on the selected target, shown on the right hand axis.



Cancer Screening

	Period	HERTFORDSHIRE AND WEST ESSEX	HODDESDON & BROXBORNE PCN	THE LIMES SURGERY	AMWELL SURGERY	HAILEY VIEW SURGERY	PARK LANE SURGERY
Women, aged 25-49, with a record of cervical screening in the last 3.5 yrs (denominator includes PCAs)	2020/21	73.3	81.1	76.7	79.3	87.9	80.4
Women, aged 50-64, with a record of cervical screening in the last 5.5 yrs (denominator includes PCAs)	2020/21	78.2	82.5	78.7	81.9	87.8	81.7
Persons, 25-49, attending cervical screening within target period (3.5 year coverage, %)	2020/21	73	81.2	76.7	79.1	88.2	80.8
Persons, 50-64, attending cervical screening within target period (5.5 year coverage, %)	2020/21	77	81.3	77	81.3	85.8	81
Persons, 50-70, screened for breast cancer in last 36 months (3 year coverage, %)	2020/21	63.9	74.9	72.4	73.4	76.8	76.7
Persons, 50-70, screened for breast cancer within 6 months of invitation (Uptake, %)	2020/21	61.3	47.4	60	47.9	41.2	33.3
Persons, 60-74, screened for bowel cancer within 6 months of invitation (Uptake, %)	2020/21	72.1	77.3	76.7	76.7	76.6	78.8
Persons, 60-74, screened for bowel cancer in last 30 months (2.5 year coverage, %)	2020/21	68.8	74.8	74	74	74.5	76.4

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Evidence & Intelligence
Epidemiology





Mortality

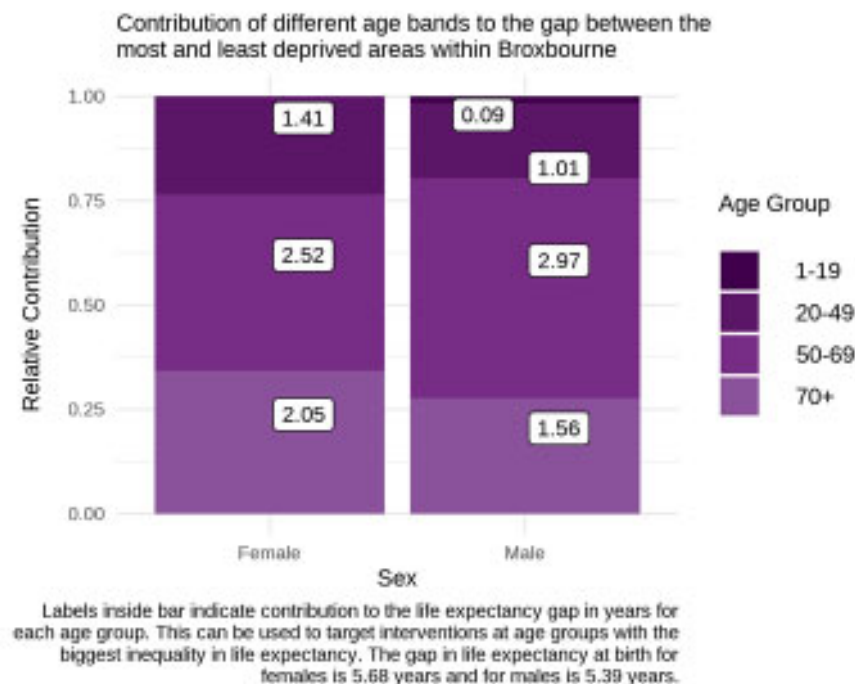
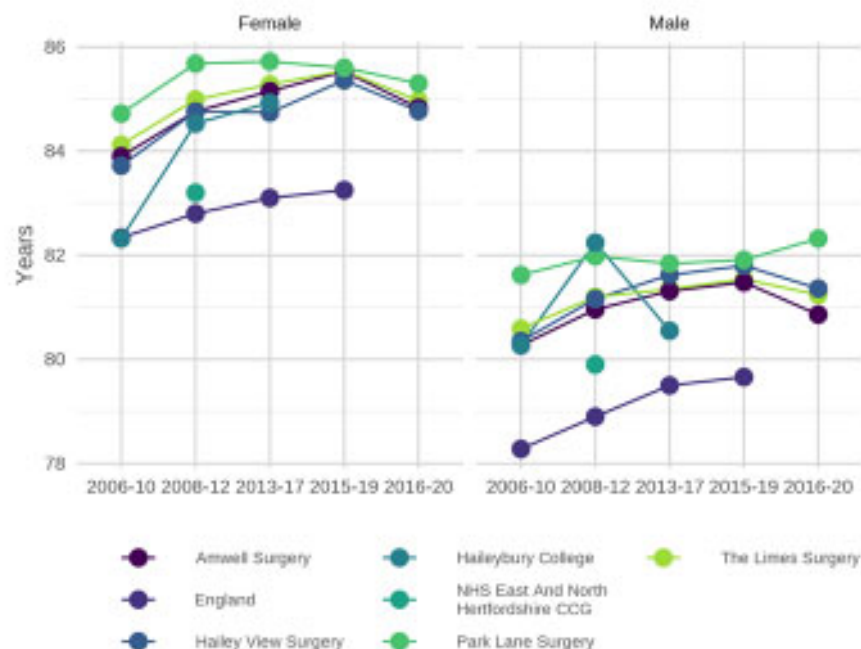
	Period	Hertfordshire CCGs	NHS HERTFORDSHIRE AND WEST ESSEX ICB - 06K	HODDESDON & BROXBORNE PCN
Percentage of deaths that occur at home (All age)	2021	25.3	26.8	29.5
PYLL - Neoplasms	2021	505	509.8	618.1
PYLL - Diseases of the circulatory system	2021	737.5	782.8	566.3
PYLL - All Cause	2021	1537.7	1574	1396.9
Premature Mortality - Respiratory Disease	2021	19.2	19.5	
Premature Mortality - Liver Disease	2021	14.6	14.6	
Premature Mortality - Cardiovascular Disease	2021	53.8	56.1	52.1
Premature Mortality - Cancer	2021	98.5	99.9	107.2
Premature Mortality - All Cause	2021	269.6	276.1	263.5

■ Similar
 ■ Significantly Worse
 ■ Significantly Better

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Life Expectancy



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Hertfordshire and
West Essex Integrated
Care System



Hertfordshire and
West Essex
Integrated Care Board



Working together
for a healthier future