



# Primary Care Networks Overview Pack

### **POTTERS BAR 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**



Potters Bar PCN has a dissimilar population profile compared to England in the age categories 0-14, 20-39 and 45-49 which is lower and higher in the age categories 50-90+. The majority of people live within the 4 least deprived deciles (7-10).

28.3% population have at least 1 Long Term Condition. 5.5% have more than 5 LTCs compared to 5.6% for the ICB. The population pyramid shows similar profile to England for those living with LTCs, except the age categories 25-49 which is lower and for age categories 70-90+ which is higher.

Wider determinants analysis from Public Health Evidence and Intelligence shows Potters Bar is one of the least deprived PCNs within the ICB across most indicators, except Housing and Services and Environment.

The spread of patients for Potters Bar PCN indicates 26.46% 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 Hertsmere 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 ~20k to ~24k.

When analysing the underlying Segmentation Model data the conditions with highest per 1,000 registered prevalence that are highlighted for Potters Bar PCN are Chronic Kidney Disease, COPD, Asthma, Diabetes, Dementia, Chronic Cardiac Disease, Serious Mental Illness and Alzheimers.

Urgent & Emergency Care in 2022/23 for Potters Bar PCN A&E Attendance rates per 1,000 population, is above South West Herts place.

When comparing the Ambulatory Care Sensitive rates per 1,000 population between places, the South West Herts place has the highest rate in the ICB. Within South West Herts place, Potters Bar has a lower rate per 1,000 population, than the average.

When looking at the ACS conditions for Potters Bar the highest volume and cost is within the Advanced Disease and Complexity segment in the over 65 age group and the next highest volume and cost is for the over 65 age group in the End of Life, Frailty and Dementia segment. It is to be noted that under Advanced Disease and Complexity and Lower Complexity segments there is a use by the 41-64 age group.

Ambulatory Care Sensitive conditions of note for people aged over 65 within the Advanced Disease and Complexity, is highlighted as Heart Failure followed by AF and Flutter, Disease of the Blood and COPD in terms of volume and cost. For those aged over 65 within the End of Life, Frailty & Dementia segment, Heart Failure, AF and Flutter, Disease of the Blood and COPD, 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 Potters Bar 12% 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 that the general population as are all activity measures. The average number of Chronic Conditions for people within Potters Bar PCN is above the ICB, and the data shows significantly lower usage of GP services.

Within this segment we can see the presence of Chronic Cardiac Disease, Chronic Respiratory Disease, Heart Disease, Stroke and Diabetes being highlighted which chimes with the reason for admission within previous analysis for ACS conditions.

For Potters Bar the data shows no rates above the place rates.

Source: HWE PHM Team

### Demographics, Conditions & Segment Overview



### **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**



Snapshot as at: 30/06/2021

#### **Total Population**

POTTERS BAR PCN

#### Registered population 100.0% % of total % of annual change 0.8%

Demogra	aphics		
% White	66.0%	% IMD top	0.1%
% BAME	16.2%	% IMD bottom	41.2%

Prevalence	
% with 1+ conditions	28.3%
% with 5+ conditions	3.4%

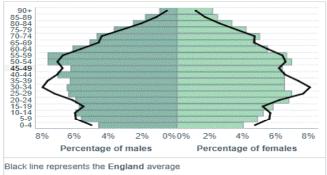
Acute utilisation	
% of annual activity (total 60,362)	100.0%
% of annual cost (total £16M)	100.0%



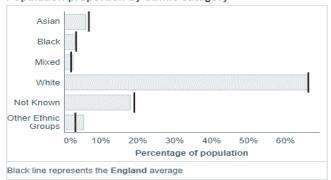
England

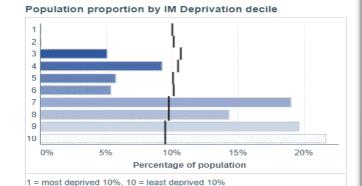
#### Population demographics - Snapshot as at: 30/06/2021

#### Population pyramid



#### Population proportion by ethnic category

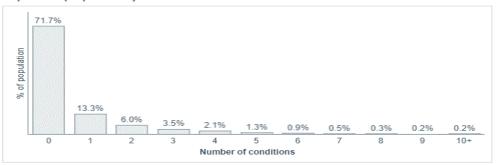




Choose benchmark:

#### Prevalence - Snapshot as at: 30/06/2021

#### Population proportion by number of conditions



#### Annual spend per capita by number of conditions



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.

Potters Bar PCN has a dissimilar population profile compared to England in the age categories 0-14, 20-39 and 45-49 which is lower and higher in the age categories 50-90+. The majority of people live within the 4 least deprived deciles (7-10).

Source: NHS Digital (2022) https://apps.model.nhs.uk/report/PaPi

### **PCN Demographics - NHS England**



#### LTC

85-89 80-84 75-79 70-74 65-69 60-64 55-59 50-54 45-49 40-44 35-39 30-34 25-29 20-24 15-19

POTTERS BAR PCN

Population pyramid

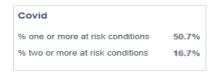
Snapshot as at: 30/06/2021

Registered population	
% of total	24.2%
% of annual change	4.5%

Demogr	aphics			
% White	81.4%	% IMD top	0.1%	
% ВАМЕ	14.7%	% IMD bottom	41.3%	

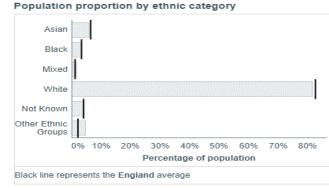
Prevalence	
% with 1+ conditions	100.0%
% with 5+ conditions	5.5%

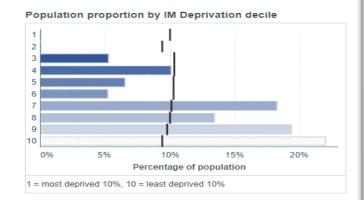
Acute utilisation	
% of annual activity (total 28,756)	47.6%
% of annual cost (total £6M)	39.2%



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





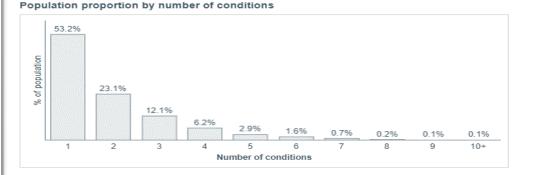


Choose benchmark:

### Black line represents the England average

Percentage of males

#### Prevalence - Snapshot as at: 30/06/2021



Percentage of females



Number of conditions

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 28.3% population have at least 1 Long Term Condition. 5.5% have more than 5 LTCs compared to 5.6% for the ICB.

The population pyramid shows similar profile to England for those living with LTCs, except the age categories 25-49 which is lower and for age categories 70-90+ which is higher.

### **Practice Indicators - Triggers and Levels**



Practice Indicators for	dicators for POTTERS BAR PCN			CENTRE	HIGHV	IEW MEDICAL O	ENTRE	PARKFIELD MEDICAL CENTRE			
Clinical Domain	Indicator Name	Latest Score	Time Period	Trigger Level	Latest Score	Time Period	Trigger Level	Latest Score	Time Period	Trigger Level	
Clinical Diagnosis	Detection rate Cancer	0.421	2020/21	No Trigger	0.558	2020/21	No Trigger	0.537	2020/21	No Trigger	
Coronary heart disease		92.1	2020/21	Positive	91.1	2020/21	Positive	93.7	2020/21	Positive	
,	% CHD aged <=79 BP reading 140/90mmHg or less	77.3	2020/21	No Trigger	62.9	2020/21	Level 1	75.7	2020/21	Level 1	
	% CHD cholesterol 5 mmol/l or less	66.5	2021/22	No Trigger	64	2021/22	No Trigger	51.3	2021/22	No Trigger	
	% hypertension aged <=79 BP reading 140/90mmHg or less	69.1	2020/21	Level 1	60	2020/21	Level 1	65.3	2020/21	Level 1	
Diabetes	% Diabetes aged >=40 years no CVD history without moderate or severe frailty treated with statin	73.9	2020/21	Level 1	72.3	2020/21	Level 1	86.8	2020/21	Level 1	
	% Diabetes without moderate or severe frailty BP 140/80 mmHg or less	54.4	2020/21	Level 1	46.4	2020/21	Level 1	76.2	2020/21	Level 1	
	% diabetes without moderate or severe frailty IFCC-HbA1c is 58 mmol/mol or less	62.3	2020/21	Level 1	57.9	2020/21	Level 1	60.8	2020/21	Level 1	
Exception Rating	Overall Personalised Care Adjustment Rate	0.032	2020/21	No Trigger	0.034	2020/21	No Trigger	0.038	2020/21	No Trigge	
Medicines Managemen	t % antibiotics Co-amoxiclav, Cephalosporins, Quinolones	8.6	2021/22 Q4	No Trigger	9.2	2021/22 Q4	No Trigger	11.1	2021/22 Q4	Level 1	
	% Naproxen and Ibuprofen	85.5	2021/22 Q4	No Trigger	83.9	2021/22 Q4	No Trigger	71.6	2021/22 Q4	No Trigge	
	Antibacterial Items/Star Pu	0.806	2021/22 Q4	Positive	1.008	2021/22 Q4	Positive	0.728	2021/22 Q4	Positive	
	Hypnotics ADQ/Star Pu	0.386	2021/22 Q4	No Trigger	0.393	2021/22 Q4	No Trigger	0.38	2021/22 Q4	No Triggei	
	Oral NSAIDS ADQs/STAR-PU	2.347	2021/22 Q4	No Trigger	2.607	2021/22 Q4	No Trigger	3.378	2021/22 Q4	No Trigge	
Mental Health	% first choice generic SSRIs	71.7	2021/22 Q4	No Trigger	75.7	2021/22 Q4	No Trigger	67.6	2021/22 Q4	No Trigge	
	% MH comprehensive care plan	70.5	2020/21	Level 1	18.2	2020/21	Level 1	56.7	2020/21	Level 1	
	% SMI alcohol record	100	2018/19	Positive	90.9	2018/19	No Trigger	30.4	2020/21	Level 2	
	% SMI BP record	73	2020/21	Level 1	55.6	2020/21	Level 1	60.4	2020/21	Level 1	
	Dementia Face to Face review	58.2	2020/21	Level 1	7.8	2020/21	Level 1	53	2020/21	Level 1	
	Select antidepressants ADQs/STARPU	1.169	2021/22 Q4	No Trigger	1.657	2021/22 Q4	No Trigger	1.251	2021/22 Q4	No Trigge	
Patient Experience	Confidence and trust in healthcare professional	98.1	2020/21	No Trigger	97.8	2020/21	No Trigger	97	2020/21	No Trigge	
	Frequency seeing preferred GP	21	2020/21	No Trigger	23.5	2020/21	No Trigger	25.8	2020/21	No Trigge	
	Healthcare professional treating with care and concern	92.3	2020/21	No Trigger	92.3	2020/21	No Trigger	91.1	2020/21	No Trigge	
	Overall experience of your GP practice	85.4	2020/21	No Trigger	87.3	2020/21	No Trigger	82.2	2020/21	No Trigge	
	Satisfaction with appointment times	65.8	2020/21	No Trigger	74.2	2020/21	No Trigger	59	2020/21	No Trigge	
Public Health	% Child Imms DTaP/IPV/Hib/HepB (age 1 year)	90.8	2020/21	Level 1	91.8	2020/21	Level 1	93.3	2020/21	Level 1	
	% Child Imms Hib/MenC booster	86.7	2020/21	Level 1	93.9	2020/21	Level 1	87.2	2020/21	Level 1	
	% Child Imms MMR (Age 2 yrs)	86.7	2020/21	Level 1	93.9	2020/21	Level 1	86.5	2020/21	Level 1	
	% Child Imms PCV Booster	87.8	2020/21	Level 1	92.9	2020/21	Level 1	86.5	2020/21	Level 1	
	Cervical Screening	75.9	2021/22 Q4	Level 1	69.6	2021/22 Q4	Level 1	72.9	2021/22 Q4	Level 1	
Respiratory	% Asthma review in last 6 mths	14.5	2020/21	Level 1	4.7	2020/21	Level 1	48.3	2020/21	Level 1	
	% Asthma spirometry and one other objective test	0	2020/21	Level 1	0	2020/21	Level 2	0	2020/21	Level 2	
	% COPD with review in last 12 mths	12.9	2020/21	Level 2	34.8	2020/21	Level 1	98.8	2020/21	No Trigger	
	% LTC patients who smoke	7.2	2020/21	No Trigger	12.9	2020/21	No Trigger	8.8	2020/21	No Trigger	
	% LTC Smoker offer support	94.5	2020/21	Level 1	63.1	2020/21	Level 1	99.6	2020/21	No Trigger	
	% Smoking patients over 15 recorded	72.5	2021/22	No Trigger	67.6	2021/22	No Trigger	73.1	2021/22	No Trigger	
	% Smoking status recorded	95.4	2020/21	No Trigger	91	2020/21	No Trigger	96.4	2020/21	Positive	
	% w. MRC dyspnoea score >=3 w. offer of referral to pulm. rehab. Clinic	12.5	2020/21	Level 1	38.5	2020/21	Level 1	95.2	2020/21	No Trigger	

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/).

Source: NHSE&I - https://www.primarycareindicators.nhs.uk/

https://www.primarycareindicators.nhs.uk/wp-content/uploads/2022/02/GPI-Tech-Guidance-v5.pdf

### **Public Health - PCN Wider Determinants**





# Wider Determinants



In Potters Bar PCN an estimated:

- 10.3% of children live in poverty.
- 9.7% of older people live in poverty.
- 11% of households live in fuel poverty.
- 6.2% of households are overcrowded.
- 30.8% of people aged 65 and over live alone.
- 0.8% of people cannot speak English well.
- 3.8% of working age people are claiming out of work benefits.
- 22.4% of children aged 4-5 and 31% of children aged 10-11 are overweight.

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

PH.Intelligence@hertfordshire.gov.uk





The above provides a summary of the wider determinants of health for Potters Bar.

Wider determinants analysis from Public Health Evidence and Intelligence shows Potters Bar is one of the least deprived PCNs within the ICB across most indicators, except Housing and Services and Environment.

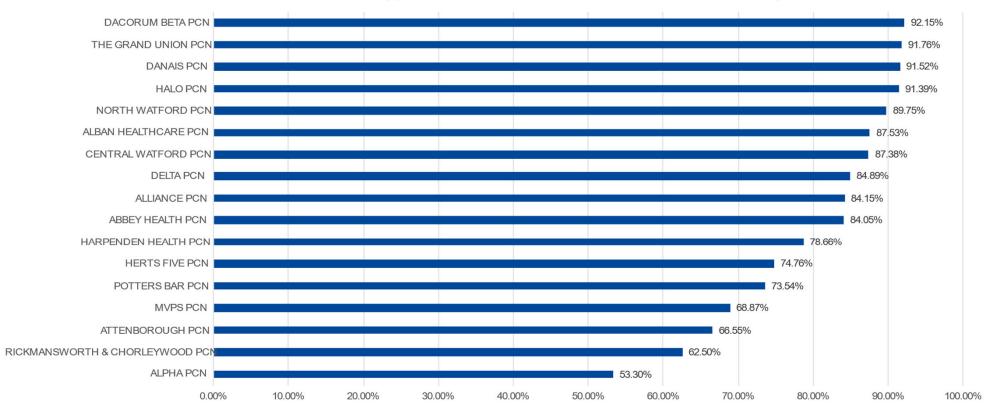
### **Spread of Patients**



Correct as of July 2022 Source: NHS Digital (2022)

### SPREAD OF PATIENTS ACROSS ENGLAND CONT.

Percent of Herts Valley 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 Potters Bar PCN indicates 26.46% 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.

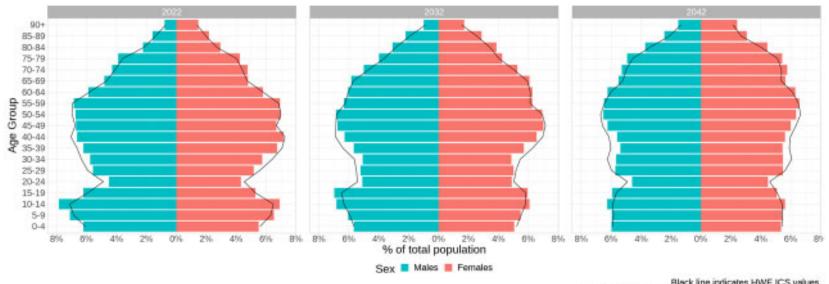
Source: Essex County Council PHM Team, NHS Digital (2022)

### **Public Health - Population Projections**





# **Projection Pyramids**



Black line indicates HWE ICS values.

Population pyramids and table shown for Hertsmere 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	6,168	5,720	6,146
Under 24	31,813	30,968	29,658
24-64	53,588	51,762	51,614
65+	20,069	24,163	27,303
85+	3,202	4,184	5,145

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Expected population growth for Hertsmere 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 ~20k to ~24k.

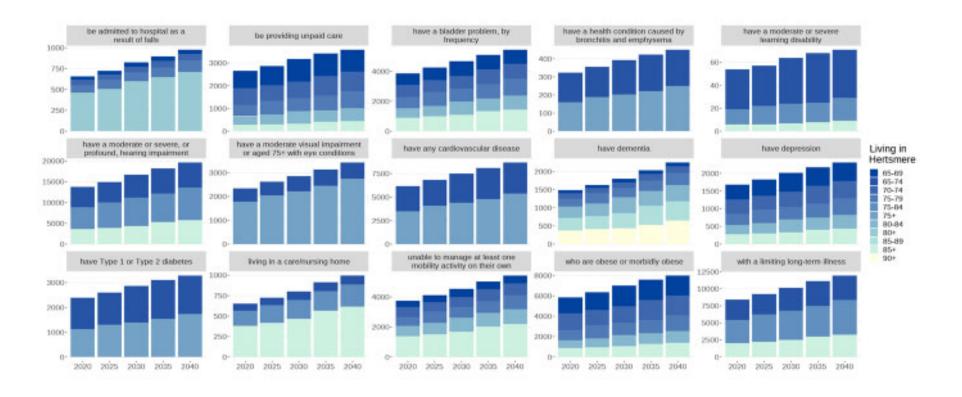
Source: Public Health Team

### **Public Health - Projections on Conditions**





# People aged 65+ projected to...



PH.Intelligence@hertfordshire.gov.uk





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

Source: Public Health Team

# Segmentation within the ICB



# **Optum**

### **HWE**

Segment & Outcomes Framework Documentation

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### **PHM Segment Model - Overview**

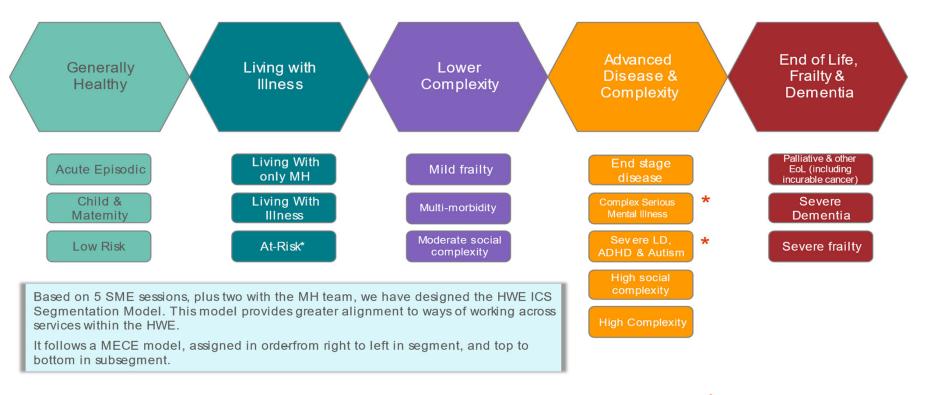


The ICB has worked in partnership with Optum to develop a Health Segmentation model using linked data covering 1.2m of our ICS population. As part of the process representation from different care settings and internal ICB teams were engaged.

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



\* awaiting finalisation of methodology



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### **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 coeffide 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 do 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 t 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.

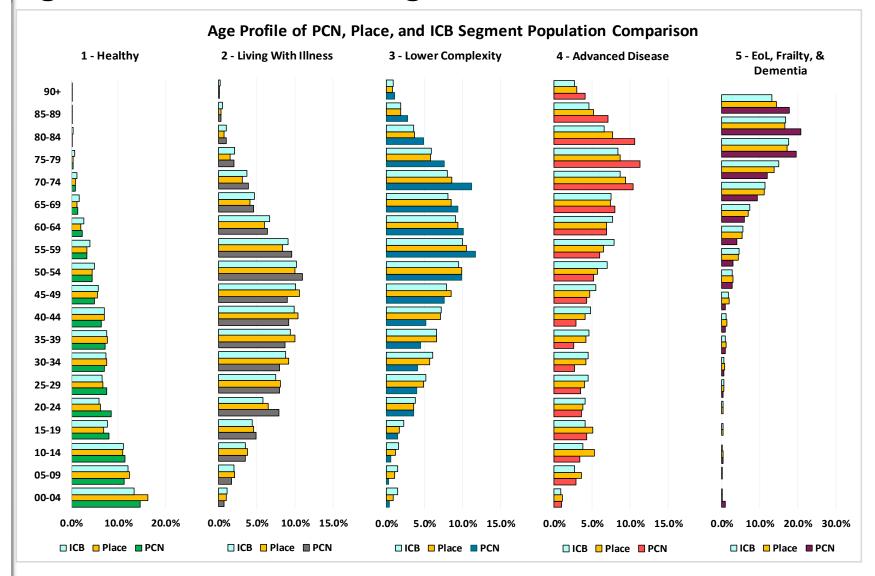
#### Social & Clinical Outcomes

- 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.

Source: Optum & HWE PHM Team - 14th Oct 2022

### **Age Profile and Health Segment**





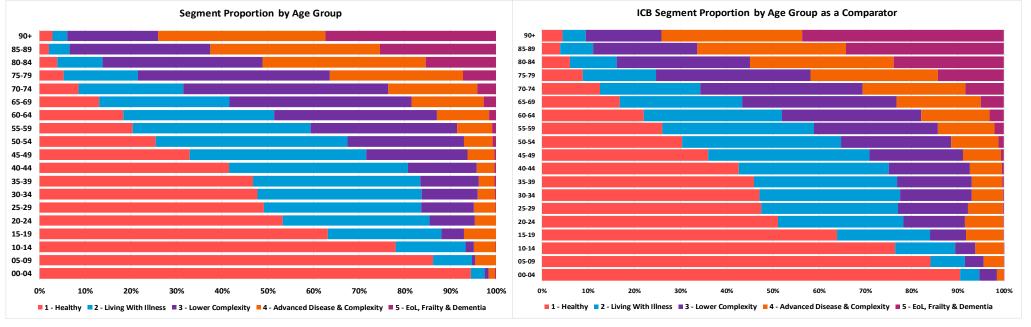
Each registered person is assigned to a segment and this can be cut by age group and also geographically by Place or PCN.

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

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

### Demographic Breakdowns - Segment & Deprivation Quintiles



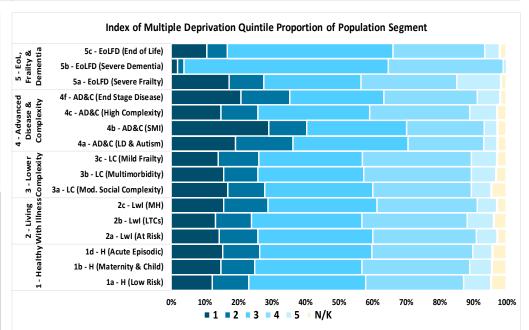


The ICB Health Segments here are broken down by total population and 5 year age groups; as expected with age the proportion of people within the healthy segment decreases.

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

Overall Potters Bar has a higher profile for most 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.



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

### Major Conditions Comparison - Per 1,000 Registered



		///	///	//	///	/ /		sojilli,			, olisease	/	/ /	/	ec Disease	///	///	//,,	Tillness /
PCN NAME	QQO	Tissago	Astima	Diabetes	Dementis	Cancer.	Learning Disa.	My Perension	St. Of.	Chronic Kighey.	Heart Disease	Heart Fallure	Atrialfile	Chronic Grafis	Oepression	MM	Aminot de la constant	Serious Mental	Altheimers
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 Potters Bar PCN are Chronic Kidney Disease, COPD, Asthma, Diabetes, Dementia, Chronic Cardiac Disease, Serious Mental Illness and Alzheimers.

### **Continued**

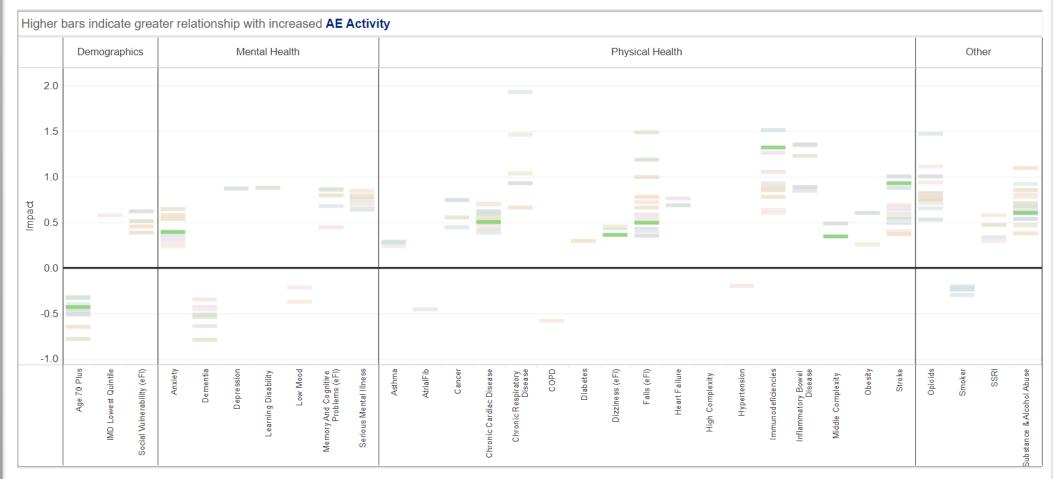


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ABBEY HEALTH	14.98 13.61	1.20 1.20	20.95 22.10	0.40 0.77	0.04	9.37 11.13	2.04	2.48 3.02	1.56 1.73	0.52	0.28	14.46 24.28	1.20 1.10	2.08	7.53 8.39	0.92 1.43	0.44	1.48 1.34	25.51 31.80
ALBAN HEALTHCARE ALLIANCE	17.30	1.66	25.28	1.73	0.23	10.85	2.45	3.02	1.73	0.30	0.33	10.55	1.10	2.60	9.01	1.43	1.70	1.09	30.03
ALPHA	11.10	0.64	21.64	0.66	0.04	10.83	2.43	2.41	2.46	0.19	0.30	20.86	1.30	3.14	9.41	1.24	0.17	1.39	35.30
ATTENBOROUGH	11.10	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	0.17	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	0.02	7.62	2.32	2.65	1.20	0.32	0.21	11.29	1.30	2.44	7.53	1.17	0.78	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 ASD, Huntington Disease, Myasthenia Gravis, Parkinsons Disease.

# **PCN** Benchmarking - A&E Activity





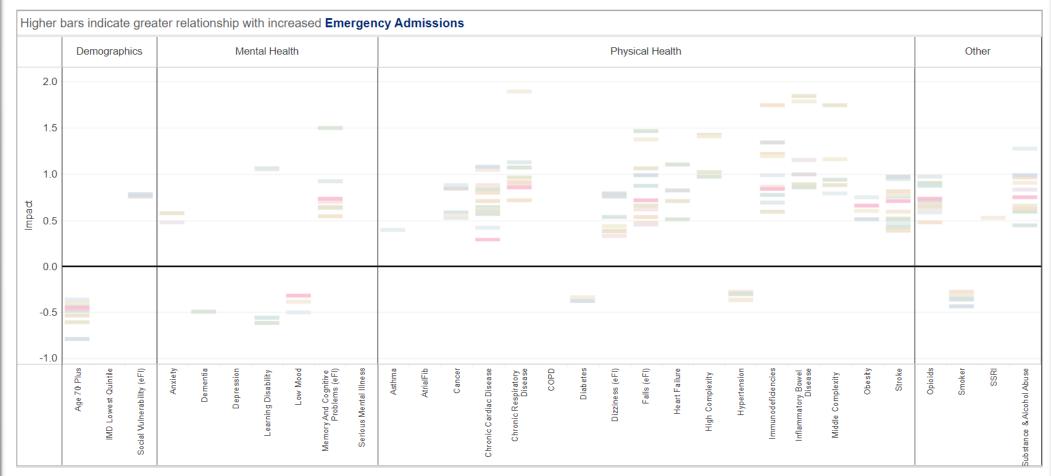
The charts in the next two pages show activity for the PCN compared against all other PCNs at the Place level.

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**





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.



### **UEC Overview**



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

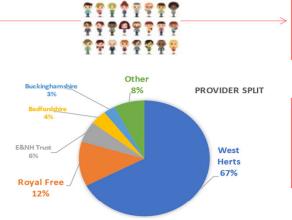
Children 0 -18 Adults 19 -64 Older People 65+

223,830 A&E Attendances in 2021/22

Children = 62,944 (28.1%) Adults = 113,994 (50.9%) Older People = 46,892 (20.9%)

84,710 (37.8%) of attendances resulted in no investigation and no treatment (includes Uncoded Activity)

> Children = 31,599 (50.2%) Adults = 42,719 (37.5%) Older People = 10,392 (22.2%)



141,377 people attended A&E in 2021/22

Children = 40,129 (28.4%) Adults = 73,984 (52.3%) Older People = 27,548 (19.5%)

This translates to 1 in 5 people registered with South & West attending A&E

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

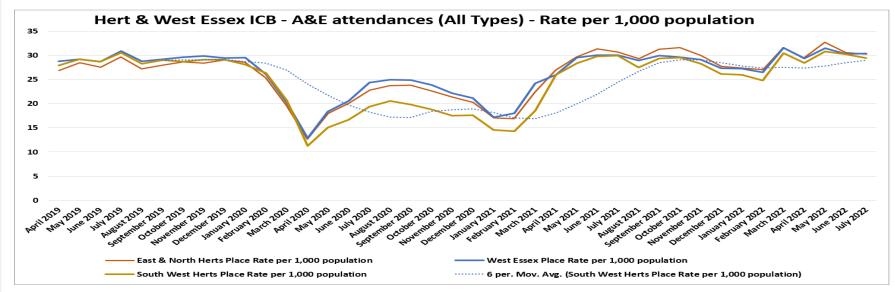


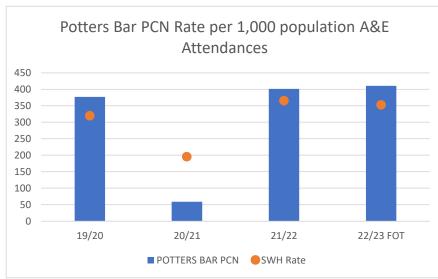


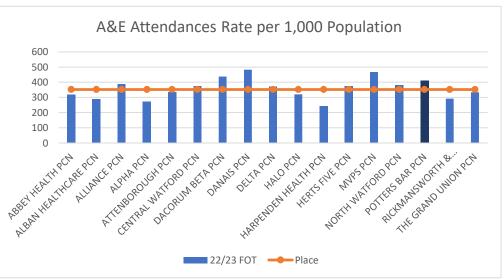
Source: SUS

### **UEC**









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 Potters Bar PCN A&E Attendance rates per 1,000 population, is above South West Herts place.

Source: HWE PHM Team modelled data, phm.optum.co.uk - Calendar Year 2021

# **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 Potters Bar PCN.

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

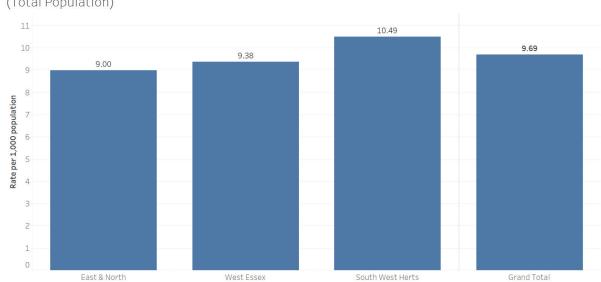
Chronic ACS	Admissions	People	Average cost of admission	Tariff Total Payment National
CVD: AF and Flutter	48	42	£3,479	£167,004
CVD: Angina	5	4	£1,506	£7,528
CVD: Congestive Heart Failure	77	62	£6,294	£484,649
CVD: Hypertension	6	6	£752	£4,509
Diseases of the blood	32	23	£3,136	£100,339
Mental and Behavioural Disorders	8	6	93	03
Neurological Disorders	14	10	£2,737	£38,323
Nutritional, endocrine and metabolic	27	24	£4,639	£125,264
Respiratory: Asthma	16	11	£1,189	£19,025
Respiratory: COPD	53	44	£3,335	£176,762
Grand Total	286	218	£3,928	£1,123,403

<sup>\*</sup> Average cost for Mental and Behavioural is not representative as non-PbR

### ACS Admission Rates per 1,000 Population by Place





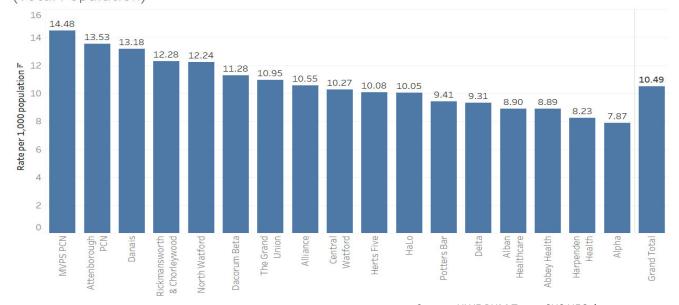


When comparing the Ambulatory Care Sensitive rates per 1,000 population between places, the South West Herts place has the highest rate in the ICB.

Within South West Herts place, Potters Bar has a lower rate per 1,000 population, than the average.

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)

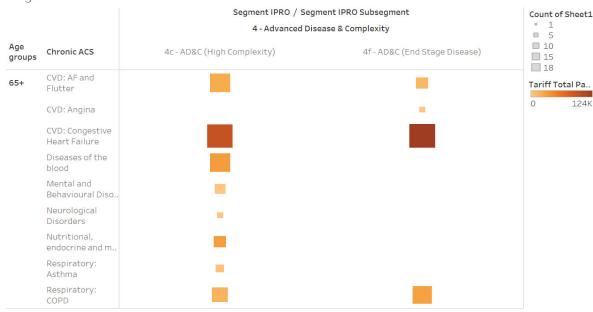


### **Chronic ACS by Segment** Hertfordshire and West Essex Integrated Care Board ACS by segment\_age Segment IPRO Count of Sheet1 1 Age gr.. 1 - Healthy 2 - Living With Illness 3 - Lower Complexity 4 - Advanced Disease & Co.. 5 - EoL, Frailty & Dementia ■ 20 **40 60** 89 Child Tariff Total Pa... 879 370K 19-40 41-64 65+ 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 Potters Bar the highest volume and cost is within the Advanced Disease and Complexity segment in the over 65 age group and the next highest volume and cost is for the over 65 age group in the End of Life, Frailty and Dementia segment. It is to be noted that under Advanced Disease and Complexity and Lower Complexity segments there is a use by the 41-64 age group. The following pages look at which ACSs contribute to this.

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



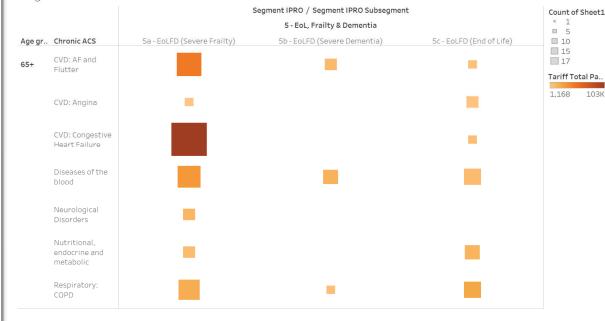




Ambulatory Care Sensitive conditions of note for people aged over 65 within the Advanced Disease and Complexity, is highlighted as Heart Failure followed by AF and Flutter, Disease of the Blood and COPD in terms of volume and cost.

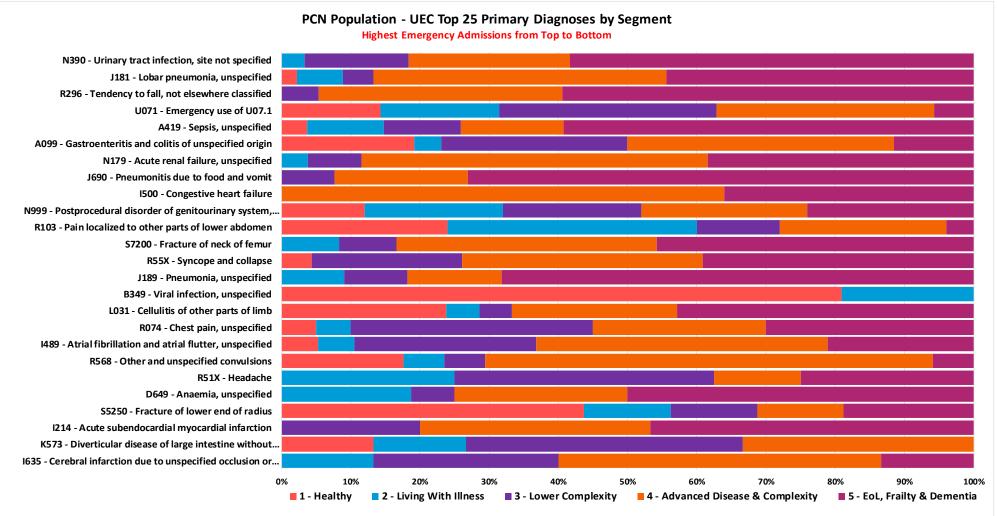
For those aged over 65 within the End of Life, Frailty & Dementia segment, Heart Failure, AF and Flutter, Disease of the Blood and COPD, is highlighted with the highest volume and cost.

#### Segment 5



### **UEC Diagnoses by Segment**





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
Borehamwood Hillside					1	1
Brookmans Park and Little Heath	15	13	33	48	20	129
Cheshunt North	2					2
Colney Heath	2					2
Hatfield East	1		2			3
Hertford Rural North			1			1
Northaw and Cuffley	5	9	9	4	25	52
Peartree			1			1
Potters Bar Furzefield	41	70	72	158	87	428
Potters Bar Oakmere	74	63	130	172	166	605
Potters Bar Parkfield	55	84	120	160	222	641
Rickmansworth Town				2		2
Roebuck		1				1
Rosedale and Bury Green	1					1
Sandridge	1					1
Shenley	6	11	21	24	6	68
Thundridge & Standon	1					1
Welham Green		5	5	6	3	19
Wormley and Turnford	2					2
Unknown Ward	9	6	6	10	19	50
Grand Total	215	262	400	584	549	2010

UEC Patients Seen by Deprivation  Quintile & Ward  1 = Most Deprived, 5 = Least Deprived	1	2	3	4	5 (bla	ank)	Grand Total
Borehamwood Hillside		1					1
Brookmans Park and Little Heath			12	103	14		129
Cheshunt North	2						2
Colney Heath			2				2
Hatfield East	2			1			3
Hertford Rural North			1				1
Northaw and Cuffley			48		4		52
Peartree	1						1
Potters Bar Furzefield		94	92	242			428
Potters Bar Oakmere	222	120	263				605
Potters Bar Parkfield			263	259	119		641
Rickmansworth Town					2		2
Roebuck		1					1
Rosedale and Bury Green	1						1
Sandridge					1		1
Shenley	68						68
Thundridge & Standon				1			1
Welham Green			19				19
Wormley and Turnford			2				2
Unknown Ward						50	50
Grand Total	296	216	702	606	140	50	2010

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.

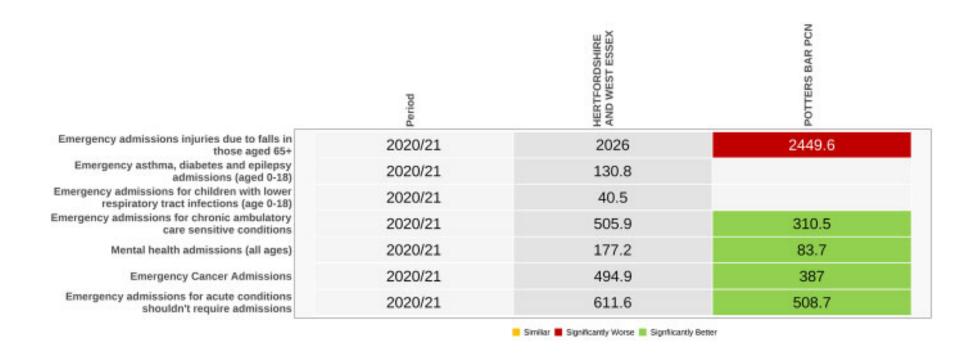
Source: HWE PHM Team, Combined population data re-extract via Optum, NHS England

### **Public Health - Nationally Reported Admissions**





# **Hospital Admissions**



PH.Intelligence@hertfordshire.gov.uk



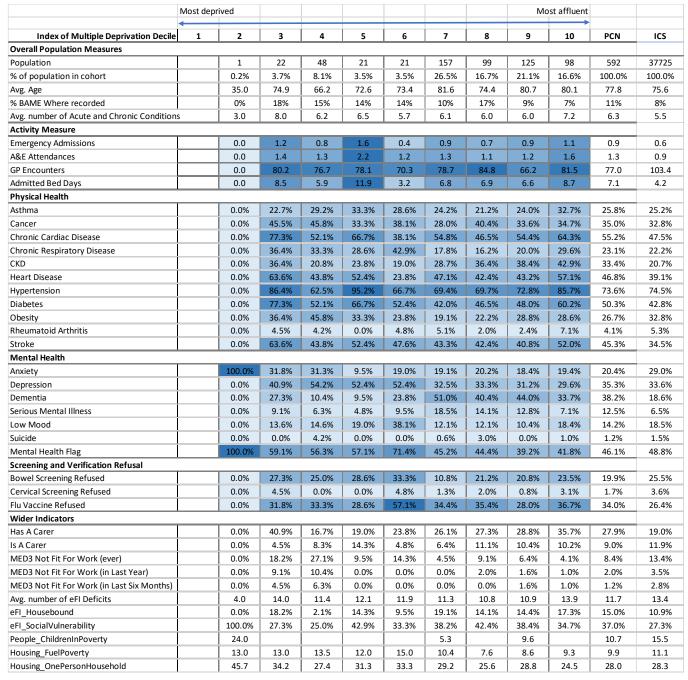


The above table produced by the Hertfordshire Public Health Evidence and Intelligence team shows the emergency admissions data within fingertips.

Potters Bar PCN rates vary from Significantly Better to Significantly Worse rate of admissions to the ICB, dependent on Admission categories.

Source: Public Health Team

### Frailty Segment - Detailed PCN Breakdown





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 Potters Bar 12% 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 Potters Bar PCN is above the ICB, and the data shows significantly lower usage of GP services.

Within this segment we can see the presence of Chronic Cardiac Disease, Chronic Respiratory Disease, Heart Disease, Stroke and Diabetes being highlighted which chimes with the reason for admission within previous analysis for ACS conditions.

### 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				

	Age < 3 AND Drug: Salbutamol AND eFI: Dyspnoea
Risk Grade: High	Med3 Not Fit For Work (last six months) AND Substance Abuse AND ONE OF:  Drug: Pain Management AND eFI: Peptic Ulcer  Chronic Cardiac Disease
	<ul> <li>Drug: Pain Management AND eFI: Falls AND ONE OF:-</li> <li>Stroke AND eFI: Memory and Cognitive Problems</li> <li>Stroke AND Substance Abuse</li> <li>End Stage Disease</li> </ul>
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
	<ul> <li>Drug: Pain Management AND Substance Abuse AND ONE OF:</li> <li>Drug: Opioids</li> <li>eFI: Falls AND NO Stroke AND NO End Stage Disease</li> </ul>
Risk Grade: Low	All others

Source: HWE PHM Team

# **Quality & Outcomes Framework**



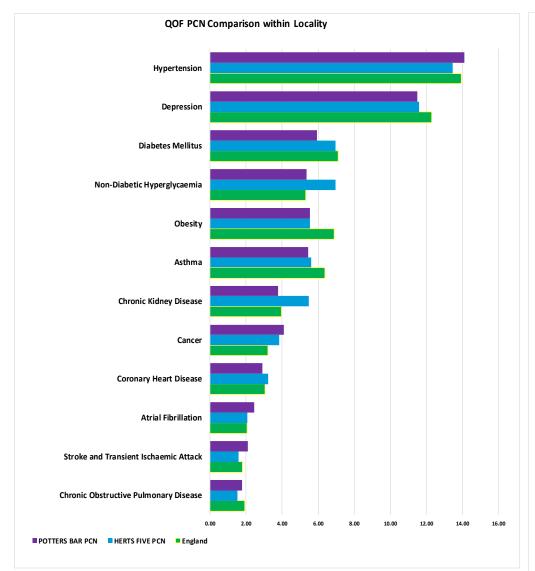
#### **Contents:**

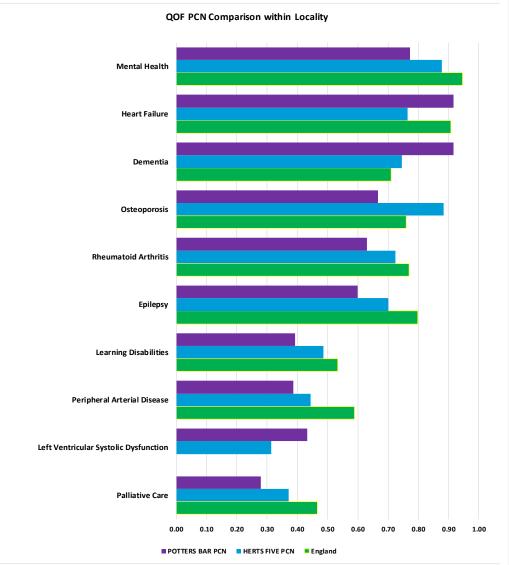
- QOF Local, Regional, & National Comparison
- QOF Locality & PCN Comparison
- QOF Missed Diagnoses & Admission Rates
- Admission Rates Benchmarking against ICB/Place



# **QOF - Locality & PCN Comparison**







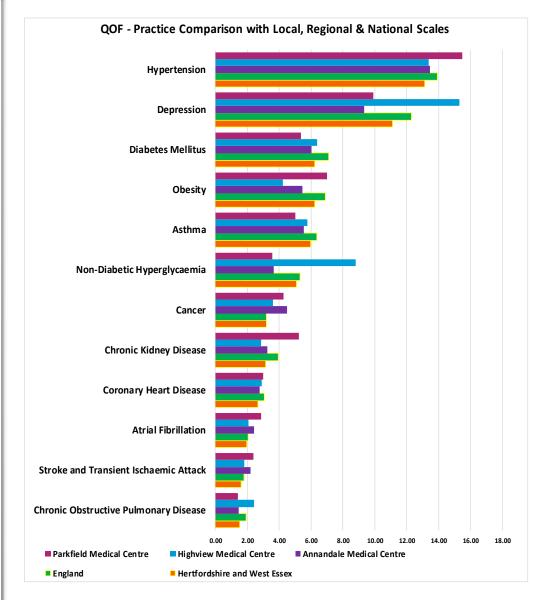
The Quality and Outcome Framework incorporates important benchmarking and scoring for all Practices across the county; we have combined a number of local, regional, and national data sets to highlight the areas that the PCN will need to consider.

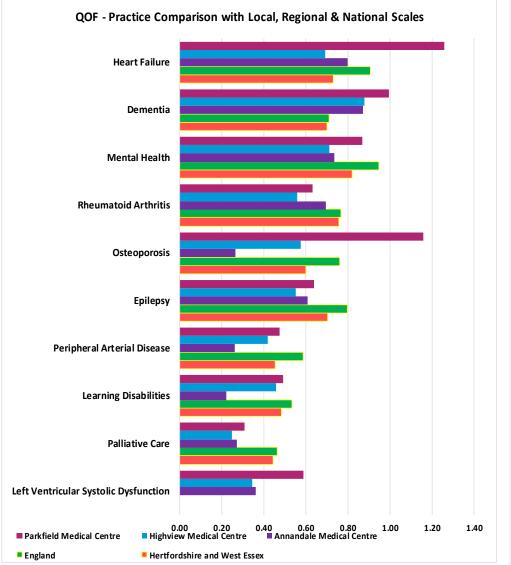
In this graph we have shown all your neighbouring PCNs within the Locality, and benchmarked against England's average.

Source: QOF National Figures, HWE PHM Team

### QOF - Local, Regional, & National Comparison







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

Source: QOF National Figures, HWE PHM Team

### **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	28751	1610	5.60%	5.89%	6.17%		83	163	
COPD	30373	497	1.64%	1.38%	1.49%	1.68%	-78	-46	13
Diabetes	24901	1519	6.10%	6.26%	6.39%	7.77%	39	71	417
Non-diabetic hyperglyaemia	24522	1488	6.07%	6.73%	5.87%	11.28%	161	-49	1279
Hypertension	30373	4387	14.44%	12.66%	13.21%		-541	-374	
Atrial Fibrillation	30373	780	2.57%	1.98%	2.02%	3.03%	-178	-166	141
Stroke and TIA	30373	625	2.06%	1.53%	1.61%		-160	-136	
Coronary Heart Disease	30373	857	2.82%	2.60%	2.65%		-67	-51	
Heart failure	30373	305	1.00%	0.69%	0.75%	1.57%	-95	-76	171
Left Ventricular Systolic Dysfunction	30373	152	0.50%	0.29%	0.30%		-65	-61	
Chronic Kidney Disease	24522	935	3.81%	3.75%	3.21%		-17	-149	
Peripheral Arterial Disease	30373	116	0.38%	0.42%	0.44%		11	18	
Cancer	30373	1282	4.22%	3.38%	3.35%		-254	-266	
Palliative care	30373	117	0.39%	0.33%	0.43%		-16	13	

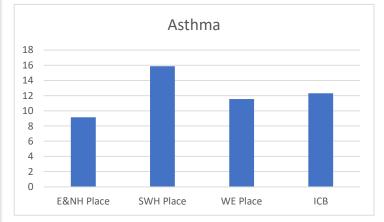
The table above shows the latest prevalence (2021/22 published August 20222) for the PCN alongside the place prevalence, ICB prevalence and the modelled prevalence for the PCN.

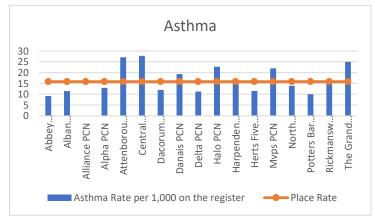
This table shows opportunities for further identification. It outlines the diagnoses to meet the place, ICB and estimated prevalence.

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

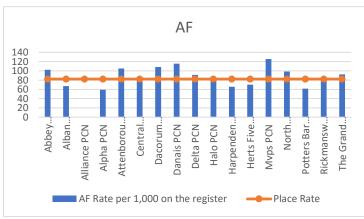
#### Emergency Admission Rates per 1,000 population on the Disease Register

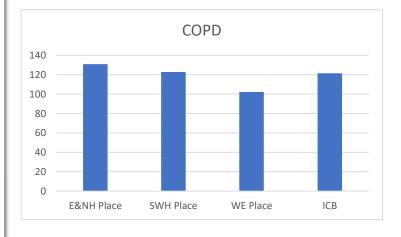


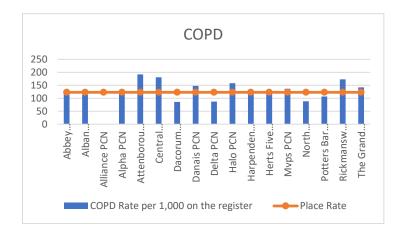












The charts on the left shows the Emergency Admissions Rates per 1,000 population on the disease register.

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.

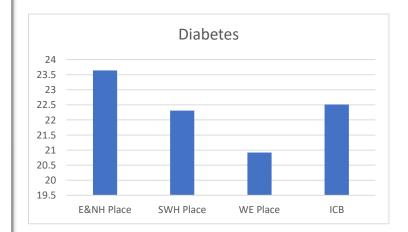
Rates may be high due to a number of factors which may include low identification.

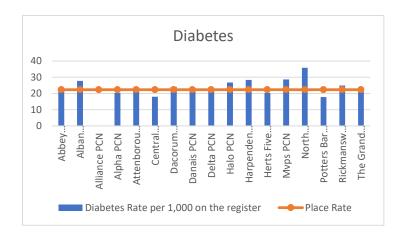
For Potters Bar the data shows no rates above the place rates.

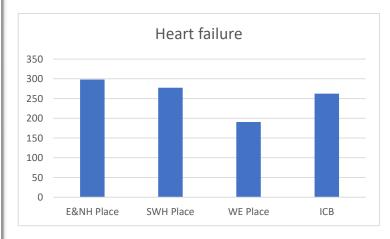
Source: HWE PHM Team, SUS data

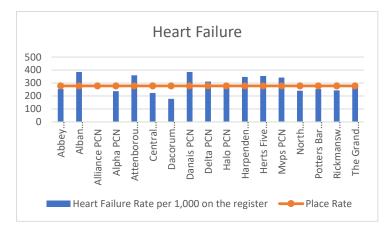
#### Emergency Admission Rates per 1,000 population on the Disease Register











Source: HWE PHM Team, SUS data

### **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 ▼	Othe	r Ethnic Gr	oups		Asian			Black			Mixed			Other			White			Unknown		
Complexity ▼	Low Complexity	Middle Complexity	High Complexity	Grand Total																		
Overall Population Measures																						
Population	289	51		1,375	791	88	572	323	33	546	209	18	994	682	97	10,082	9,022	1,634	1,692	390	8	28,898
Age	30	50	48	26	45	64	25	44	53	18	36	48	26	48	62	30	52	69	32	47	64	40
Male %	41.5%	47.1%	50.0%	47.0%	47.2%	48.9%	46.3%	43.3%	42.4%	49.5%	46.9%	55.6%	50.3%	44.6%	49.5%	50.8%	44.2%	45.4%	58.1%	61.3%	37.5%	48.2%
IMD	7.3	7.3	7.0	7.7	7.6	7.7	7.2	7.1	6.2	7.4	7.3	7.3	7.5	7.5	7.3	7.6	7.5	7.4	7.5	7.4	6.0	7.5
% BAME (where recorded)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	0%	0%	100%	100%	100%	23%
Multimorbidity (acute & chronic)	0.0	1.5	6.0	0.0	1.6	6.7	0.0	1.7	6.7	0.0	1.8	7.1	0.0	1.8	6.6	0.0	1.9	6.7	0.0	1.4	7.3	1.2
Finance and Activity Measur	es																					
Spend ▼ Total	£0.0M	£0.0M	£0.0M	£0.4M	£0.5M	£0.2M	£0.1M	£0.4M	£0.2M	£0.1M	£0.2M	£0.0M	£0.4M	£0.8M	£0.4M	£2.6M	£7.8M	£6.4M	£0.1M	£0.1M	£0.0M	£20.7M
PPPY - Total	£62	£182	£138	£262	£632	£2,646	£231	£1,152	£5,885	£200	£792	£1,158	£373	£1,103	£4,334	£262	£869	£3,933	£55	£169	£1,154	£718
Acute Elective	£6	£23	£0	£76	£276	£1,195	£69	£417	£1,414	£47	£248	£274	£134	£359	£1,368	£82	£371	£1,014	£15	£54	£262	£246
Acute Non-Elective	£3	£5	£0	£101	£161	£970	£83	£524	£3,677	£75	£300	£62	£146	£525	£2,408	£95	£286	£2,315	£3	£20	£330	£307
GP Encounters	£51	£136	£138	£85	£177	£376	£77	£180	£391	£73	£167	£276	£93	£202	£366	£83	£184	£366	£36	£93	£225	£137
Community	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Mental Health	£1	£18	£0	£0	£18	£106	£2	£30	£397	£6	£69	£544	£1	£16	£192	£3	£24	£233	£1	£1	£338	£26
Social Care	£0	£0	£0	£0	£0	£0	£0	£0	£5	£0	£8	£2	£0	£1	£0	£0	£5	£5	£0	£1	£0	£2
GP PPPY	9	23	23	14	29	60	13	29	76	12	27	46	15	33	59	13	30	59	6	15	36	22
Beddays PPPY - Acute EM	0	0	0	0	0	2	0	1	5	0	0	0	0	1	5	0	0	4	0	0	1	0
Physical Health																						
Diabetes ▼	0.0%	43.1%	0.0%	0.0%	39.6%	83.0%	0.0%	36.8%	66.7%	0.0%	22.0%	50.0%	0.0%	29.6%	63.9%	0.0%	22.9%	58.0%	0.0%	15.4%	25.0%	13.7%
COPD ▼	0.0%	0.0%	0.0%	0.0%	0.5%	14.8%	0.0%	1.2%	12.1%	0.0%	1.9%	16.7%	0.0%	0.7%	24.7%	0.0%	1.8%	26.6%	0.0%	1.3%	12.5%	2.3%
Chronic Respiratory Di ▼	0.0%	0.0%	0.0%	0.0%	1.0%	20.5%	0.0%	3.1%	12.1%	0.0%	1.9%	16.7%	0.0%	1.2%	30.9%	0.0%	2.2%	30.2%	0.0%	1.3%	12.5%	2.7%
Hypertension ▼	0.0%	13.7%	50.0%	0.0%	20.2%	79.5%	0.0%	31.9%	75.8%	0.0%	18.2%	55.6%	0.0%	24.0%	67.0%	0.0%	26.0%	74.9%	0.0%	18.2%	87.5%	14.9%
Obesity ▼	1.7%	7.8%	0.0%	3.2%	10.7%	19.3%	4.2%	14.9%	27.3%	2.6%	11.0%	22.2%	4.3%	15.1%	18.6%	8.1%	24.1%	34.4%	2.1%	10.8%	25.0%	14.1%
Mental Health																						
Anxiety/Phobias ▼	0.0%	15.7%	50.0%	0.0%	7.6%	33.0%	0.0%	9.3%	39.4%	0.0%	16.7%	61.1%	0.0%	17.3%	36.1%	0.0%	18.1%	32.0%	0.0%	14.4%	75.0%	8.9%
Depression ▼	0.0%	19.6%	50.0%	0.0%	15.3%	33.0%	0.0%	14.2%	48.5%	0.0%	27.3%	83.3%	0.0%	25.2%	40.2%	0.0%	27.6%	45.2%	0.0%	22.6%	75.0%	13.2%
Learning Disability ▼	0.0%	0.0%	0.0%	0.0%	0.9%	12.5%	0.0%	0.9%	30.3%	0.0%	2.4%	44.4%	0.0%	0.4%	17.5%	0.0%	1.0%	12.8%	0.0%	0.0%	12.5%	1.3%
Dementia ▼	0.0%	3.9%	50.0%	0.0%	2.0%	23.9%	0.0%	2.8%	36.4%	0.0%	1.9%	44.4%	0.0%	1.6%	36.1%	0.0%	1.6%	26.9%	0.0%	1.5%	50.0%	2.5%
Other Characteristics																						
Housebound (eFI) ▼	0.0%	0.0%	0.0%	0.0%	0.1%	6.8%	0.0%	0.9%	6.1%	0.0%	0.0%	0.0%	0.1%	0.9%	5.2%	0.0%	0.6%	4.6%	0.0%	0.5%	0.0%	0.5%
Social Vulnerability (eFI) ▼	1.0%	3.9%	0.0%	1.2%	2.3%	15.9%	0.3%	2.8%	33.3%	0.4%	6.7%	11.1%	0.9%	4.5%	17.5%	0.6%	3.9%	18.6%	0.2%	2.8%	12.5%	3.1%
History of Smoking (T ▼	4.8%	7.8%	50.0%	1.8%	6.3%	3.4%	3.5%	6.5%	12.1%	3.3%	10.0%	0.0%	3.7%	10.9%	21.6%	4.6%	10.5%	12.4%	1.5%	8.2%	12.5%	6.9%
Not Fit for Work (In Year) ▼	0.3%	2.0%	0.0%	1.7%	6.1%	8.0%	3.7%	11.1%	6.1%	1.3%	9.1%	16.7%	3.2%	8.7%	10.3%	2.5%	6.4%	4.2%	0.5%	3.3%	0.0%	4.1%
On a Waiting List	0.7%	7.8%	0.0%	5.3%	10.4%	23.9%	5.6%	13.0%	18.2%	4.6%	12.0%	22.2%	6.8%	14.1%	26.8%	6.3%	12.7%	27.6%	0.9%	4.1%	12.5%	9.6%
on a rruning List	3.7 /0	1.070	0.070	3.370	10.470	23.370	3.070	13.070	10.2 /0	7.070	12.070	22.2/0	0.070	1-7.170	20.070	0.570	12.170	21.070	0.570	7.170	12.370	3.070

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 Segm	nent •		1 - Healthy		2 - L	iving With Illn	ess	3 -	Lower Comple	xity		4 - Advance	ed Disease &	Complexity		5 - EoL	, Frailty & De	ementia	
Life Course Subse	egment 🔻	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 (Multimorbidi	3c - LC (Mild Frailty)	4a - AD&C (High Complexity)	4b - AD&C - High Social Co	4c - AD&C (Severe LD/ASD/	4d - AD&C (Complex SMI)	4e - AD&C (End Stage Dis	5a - EoLFD (Severe	5b - EoLFD (Severe	5c - EoLFD (End of Li	Grand Total
Overall Populatio	n Measures																		
Population		11,311	665	781	2,478	3,892	1,272	205	3,678	1,691	1,235	360	70	242	426	242	105	245	28,898
Age		27	5	19	43	44	39	43	53	63	66	60	29	36	68	80	82	74	40
Male %		52.5%	41.2%	52.2%	46.7%	53.9%	35.7%	44.4%	43.3%	36.5%	45.9%	46.7%	54.3%	43.8%	49.5%	39.3%	24.8%	40.0%	48.2%
IMD		7.6	7.5	7.4	7.4	7.6	7.4	7.3	7.5	7.6	7.5	7.6	7.2	6.8	7.1	7.5	7.8	7.6	7.5
% BAME (where re	corded)	28%	35%	31%	21%	23%	16%	28%	17%	15%	14%	22%	23%	17%	11%	10%	13%	12%	23%
Multimorbidity (acut	te & chronic)	0.0	0.0	0.0	0.0	1.0	1.0	0.5	2.5	2.3	5.3	2.9	3.2	5.9	5.8	7.5	6.2	5.2	1.2
Finance and Act	ivity Measur	es																	
Spend . To	tal	£1.0M	£0.4M	£1.0M	£1.1M	£1.8M	£0.6M	£0.1M	£3.1M	£2.1M	£2.7M	£0.5M	£0.2M	£0.7M	£1.5M	£1.9M	£0.4M	£1.6M	£20.7M
COO. * COO. CO. CO. CO. CO. CO. CO. CO. CO. CO	PPY - Total	£92	£611	£1,272	£447	£462	£466	£396	£841	£1,250	£2,185	£1,352	£2,660	£2,770	£3,592	£7,982	£3,894	£6,527	£718
Acute Elective		£21	£130	£470	£162	£192	£146	£128	£390	£596	£831	£466	£303	£282	£1,219	£1,474	£139	£1,820	£246
Acute Non-Electi	ve	£12	£378	£657	£147	£136	£174	£120	£248	£384	£1,031	£522	£963	£637	£1,883	£5,834	£3,155	£4,213	£307
GP Encounters		£57	£103	£135	£135	£130	£133	£140	£191	£258	£298	£249	£291	£273	£346	£524	£422	£451	£137
Community		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Mental Health		£2	£0	£10	£4	£3	£13	£6	£13	£11	£25	£18	£1,010	£1,560	£136	£151	£176	£43	£26
Social Care		£0	£0	£0	£0	£0	£0	£1	£0	£1	£0	£98	£94	£18	£8	£0	£1	£1	£2
GP PPPY		9	17	22	22	21	21	23	31	41	48	40	46	44	56	86	67	73	22
Beddays PPPY - Ad	cute EM	0	1	1	0	0	0	0	0	1	1	1	2	6	3	9	5	7	0
Physical Health																			
Diabetes	•	0.0%	0.0%	0.0%	0.0%	20.5%	0.0%	9.3%	31.4%	33.6%	58.0%	27.5%	18.6%	40.1%	43.0%	67.8%	39.0%	38.0%	13.7%
COPD	*	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.4%	1.4%	11.4%	2.8%	2.9%	5.0%	62.9%	26.4%	12.4%	17.1%	2.3%
Chronic Respiratory	y Dis ▼	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	2.9%	2.0%	13.8%	4.7%	5.7%	6.2%	68.5%	31.0%	12.4%	20.0%	2.7%
Hypertension	*	0.0%	0.0%	0.0%	0.0%	11.7%	0.0%	4.4%	34.1%	44.7%	74.0%	37.8%	12.9%	29.3%	59.2%	89.7%	61.9%	62.9%	14.9%
Obesity	•	0.0%	0.0%	0.0%	37.5%	15.7%	14.8%	13.2%	23.0%	35.5%	35.8%	20.0%	11.4%	20.7%	33.3%	35.5%	16.2%	22.4%	14.1%
Mental Health	100	0.070	0.070	0.070	01.070	10.170	11.070	10.270	25.070	00.070	00.070	20.070	11.170	20.770	00.070	00.070	10.270	EE. 170	111170
Anxiety/Phobias	•	0.0%	0.0%	0.0%	0.0%	0.0%	30.7%	5.9%	31.2%	16.0%	24.5%	14.7%	28.6%	59.1%	23.5%	23.6%	24.8%	15.5%	8.9%
Depression	•	0.0%	0.0%	0.0%	0.0%	0.0%	63.3%	11.2%	40.9%	25.4%	35.6%	20.3%	28.6%	72.7%	33.8%	43.0%	42.9%	24.5%	13.2%
Learning Disability	*	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	1.0%	0.5%	0.1%	4.5%	15.3%	58.6%	45.0%	7.7%	6.6%	15.2%	4.5%	1.3%
Dementia	•	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	23.7%	9.2%	11.4%	43.4%	11.7%	26.0%	100.0%	23.7%	2.5%
Other Characteris		0.076	0.0%	0.0%	0.0%	U.U76	U.U%	0.0%	0.0%	0.0%	23.176	3.2%	11.470	43.4%	11.7%	20.0%	100.076	23.170	2.5%
Housebound (eFI)	SUCS *	0.00/	0.00/	0.0%	0.00/	0.00/	0.00/	0.0%	0.00/	0.00/	0.00/	44.30/	4.20/	0.40/	2.40/	40.40/	24.00/	44 40/	0.50/
		0.0%	0.0%		0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	14.2%	4.3%	0.4%	2.1%	16.1%	21.0%	11.4%	0.5%
Social Vulnerability		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	77.1%	2.1%	6.1%	8.2%	28.1%	31.4%	22.7%	10.8%	39.7%	45.7%	30.6%	3.1%
History of Smoking	23/25/20/20 02/24	0.0%	0.0%	0.0%	23.6%	7.8%	10.6%	12.2%	11.9%	8.6%	11.7%	8.1%	10.0%	20.2%	20.7%	7.0%	3.8%	4.5%	6.9%
Not Fit for Work (In	2004000000	0.0%	0.0%	0.0%	13.0%	3.9%	8.5%	11.2%	8.3%	8.0%	5.2%	4.4%	10.0%	9.1%	6.1%	1.7%	0.0%	3.3%	4.1%
On a Waiting List	•	3.7%	6.0%	14.0%	9.8%	8.6%	7.9%	10.2%	13.4%	18.6%	23.6%	15.6%	21.4%	20.2%	29.8%	39.3%	13.3%	19.6%	9.6%

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		14	1		2-3			4-5			6-9			10+		
Complexity	*	LOW	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	Grand Total
Overall Population	n Measures	s																	
Population		601	60		1,010	140	2,005	292	8	2,056	471	8	3,353	1,266	32	6,525	9,239	1,830	28,898
Age		22	36	49	24	31	22	30	18	26	37	15	29	41	43	34	53	69	40
Male %		54.4%	53.3%	50.0%	60.4%	72.9%	55.2%	71.2%	37.5%	61.0%	65.0%	25.0%	55.2%	55.8%	53.1%	42.3%	41.2%	45.8%	48.2%
IMD		7.5	7.8	9.0	7.5	7.5	7.5	7.3	7.0	7.5	7.5	6.6	7.6	7.6	7.2	7.6	7.5	7.4	7.5
% BAME (where red	corded)	35%	28%	100%	30%	30%	29%	19%	38%	27%	18%	25%	28%	20%	16%	26%	18%	13%	23%
Multimorbidity (acute	e & chronic)	0.0	1.3	8.0	0.0	1.2	0.0	1.2	7.1	0.0	1.3	6.8	0.0	1.4	7.5	0.0	1.9	6.7	1.2
Finance and Acti	vity Measu	res																	
Spend - Tot	al	£0.0M	£0.0M	£0.0M	£0.0M	£0.0M	£0.1M	£0.0M	£0.0M	£0.1M	£0.0M	£0.0M	£0.4M	£0.2M	£0.0M	£3.1M	£9.4M	£7.3M	£20.7M
PP	PY - Total	£5	£2	£0	£10	£17	£34	£27	£38	£64	£75	£278	£134	£193	£323	£470	£1,020	£3,984	£718
Acute Elective		£5	£0	£0	£1	£10	£8	£3	£0	£12	£24	£0	£37	£37	£7	£151	£428	£1,064	£246
Acute Non-Electiv	re	£1	£2	£0	£3	£0	£10	£7	£11	£24	£19	£0	£45	£98	£42	£170	£343	£2,309	£307
<b>GP Encounters</b>		£0	£0	£0	£6	£6	£15	£16	£15	£28	£28	£28	£48	£50	£54	£145	£216	£374	£137
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	£13	£0	£3	£250	£3	£6	£213	£4	£28	£233	£26
Social Care		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£1	£8	£0	£5	£4	£2
GP PPPY		0	0	0	1	1	2	3	3	5	5	4	8	8	8	24	35	60	22
Beddays PPPY - Ac	ute EM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Physical Health																			
Diabetes	•	0.0%	8.3%	0.0%	0.0%	3.6%	0.0%	7.5%	25.0%	0.0%	12.1%	12.5%	0.0%	15.2%	34.4%	0.0%	27.6%	60.2%	13.7%
COPD	•	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	0.3%	25.0%	0.0%	1.1%	0.0%	0.0%	0.6%	15.6%	0.0%	1.8%	25.8%	2.3%
Chronic Respiratory	Dis ▼	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	0.3%	25.0%	0.0%	1.1%	0.0%	0.0%	0.9%	15.6%	0.0%	2.3%	29.6%	2.7%
Hypertension	•	0.0%	6.7%	100.0%	0.0%	6.4%	0.0%	5.1%	25.0%	0.0%	4.9%	37.5%	0.0%	10.3%	65.6%	0.0%	29.3%	75.1%	14.9%
Obesity	•	0.7%	5.0%	50.0%	0.6%	2.1%	1.1%	3.4%	0.0%	2.8%	8.1%	0.0%	6.0%	13.4%	12.5%	10.7%	24.4%	33.2%	14.1%
Mental Health																			
Anxiety/Phobias	•	0.0%	11.7%	50.0%	0.0%	15.0%	0.0%	16.8%	62.5%	0.0%	15.7%	50.0%	0.0%	17.5%	68.8%	0.0%	17.0%	32.0%	8.9%
Depression		0.0%	13.3%	100.0%	0.0%	23.6%	0.0%	22.3%	75.0%	0.0%	26.1%	87.5%	0.0%	22.6%	81.3%	0.0%	26.7%	43.9%	13.2%
Learning Disability	-	0.0%	1.7%	50.0%	0.0%	0.0%	0.0%	1.0%	50.0%	0.0%	0.2%	62.5%	0.0%	0.9%	43.8%	0.0%	1.0%	12.7%	1.3%
Dementia Dementia		0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.7%	100000000000000000000000000000000000000	0.0%	0.6%	100.0%	0.0%	1.3%	65.6%	0.0%	1.0%	26.4%	2.5%
Other Characteris		0.070	0.076	30.076	0.076	0.170	0.076	0.176	75.076	0.070	0.076	100.078	0.076	1.570	05.0%	0.076	1.370	20.470	2.370
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%	0.2%	0.0%	0.0%	0.6%	4.8%	0.5%
Social Vulnerability	1000	0.0%	1.7%	0.0%	0.0%	0.0%	0.0%	1.7%	12.5%	0.0%	2.1%	37.5%	0.5%	1.1%	25.0%	1.0%	4.4%	18.4%	3.1%
History of Smoking		1,000,000		200000000000000000000000000000000000000						5.000.00			2000000			100 3 3 5 5 7 7		100000000	
		0.3%	0.0%	0.0%	1.0%	1.4%	1.5%	2.1%	12.5%	1.9%	5.1%	12.5%	3.3%	5.4%	6.3%	6.3%	11.3%	12.5%	6.9%
Not Fit for Work (In		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.8%	0.0%	0.9%	1.5%	3.1%	4.7%	7.9%	4.9%	4.1%
On a Waiting List	*	0.5%	0.0%	0.0%	0.1%	0.7%	1.1%	0.3%	0.0%	1.6%	1.7%	0.0%	2.6%	1.8%	0.0%	10.8%	15.0%	27.8%	9.6%

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 - H	ealthy			2 - Living \	Vith Illness			3 - Lower (	Complexity		4 - Adv	anced Dise	ase & Comp	olexity	5 - EoL, Frailty & Dementia			Cered
Deprivation	LUW	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivation	Grand Total												
Overall Population Measure	s																			
Population	7,147	4,916	658	36	4,168	3,095	372	7	3,054	2,224	293		1,231	979	122		322	247	23	28,898
Age	26	25	25	40	44	42	39	39	57	55	51	36	63	60	55	70	79	77	73	4
Male %	50.5%	53.5%	54.1%	58.3%	47.1%	50.8%	46.2%	28.6%	42.0%	40.4%	39.9%	66.7%	47.8%	46.7%	36.9%	0.0%	40.4%	33.6%	26.1%	48.29
IMD	9.1	5.9	3.0		9.1	5.9	3.0		9.2	5.8	3.0		9.1	5.7	3.0		9.0	6.2	3.0	7.
% BAME (where recorded)	29%	28%	35%	6%	21%	22%	24%	14%	16%	18%	16%	0%	16%	14%	18%	0%	11%	11%	17%	23%
Multimorbidity (acute & chronic)	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.9	2.3	2.3	2.3	2.7	5.0	5.1	5.1	7.0	6.4	6.1	7.8	1.
Finance and Activity Meas	ures		10																	
Spend • Total	£1.3M	£1.0M	£0.1M	£0.0M	£1.9M	£1.4M	£0.2M	£0.0M	£2.8M	£2.2M	£0.2M	£0.0M	£3.0M	£2.2M	£0.3M	£0.0M	£2.0M	£1.8M	£0.2M	£20.7N
PPPY - Total	£184	£209	£152	£97	£455	£459	£481	£369	£932	£998	£728	£3,456	£2,437	£2,283	£2,762	£950	£6,162	£7,229	£7,381	£718
Acute Elective	£54	£58	£39	£7	£189	£161	£127	£59	£431	£473	£338	£751	£804	£720	£873	£601	£1,079	£1,776	£1,356	£24
Acute Non-Elective	£62	£85	£54	£56	£131	£161	£196	£155	£285	£296	£171	£2,264	£1,055	£1,042	£1,357	£0	£4,538	£4,810	£5,475	£30
GP Encounters	£65	£64	£57	£34	£131	£131	£139	£154	£207	£212	£207	£208	£301	£289	£304	£349	£473	£480	£454	£13
Community	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£
Mental Health	£2	£2	£2	£0	£3	£6	£17	£0	£8	£17	£12	£233	£242	£223	£227	£0	£71	£163	£96	£2
Social Care	£0	£0		£0	£0	£0	£1	£0	£0	£1	£0	£0	£34	£8	£1	£0	£1	£0	£0	
GP PPPY	11	10		6		21	23	27	33	34	35	36	48	47	50	58	77	78	77	
Beddays PPPY - Acute EM	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	0	8	7	8	
Physical Health																				
Diabetes ▼	0.0%	0.0%	0.0%	0.0%	10.3%	10.2%	13.7%	42.9%	31.3%	31.9%	25.6%	33.3%	47.8%	47.3%	45.1%	100.0%	51.2%	47.0%	73.9%	13.7%
COPD ▼	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%	2.2%	4.4%	0.0%	15.2%	22.1%	24.6%	0.0%	19.3%	20.2%	30.4%	2.3%
Chronic Respiratory Dis ▼	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	2.4%	2.4%	4.8%	0.0%	18.2%	24.5%	27.9%	0.0%	21.7%	23.9%	34.8%	2.7%
Hypertension •	0.0%	0.0%	0.0%	0.0%	6.1%	5.8%	5.1%	0.0%	38.0%	34.3%	32.1%	33.3%	60.4%	58.6%	51.6%	100.0%	75.8%	70.0%	82.6%	14.9%
Obesity •	0.0%	0.0%	0.0%	0.0%	23.0%	22.8%	16.7%	14.3%	25.7%	27.7%	23.9%	66.7%	30.3%	31.2%	29.5%	0.0%	26.7%	25.9%	34.8%	14.1%
Mental Health																				
Anxiety/Phobias ▼	0.0%	0.0%	0.0%	0.0%	5.3%	4.9%	4.8%	0.0%	23.5%	27.9%	31.1%	33.3%	21.9%	30.6%	40.2%	100.0%	19.3%	20.6%	34.8%	8.9%
Depression ▼	0.0%	0.0%	0.0%	0.0%	9.6%	11.1%	15.6%	14.3%	30.7%	39.2%	49.8%	66.7%	31.6%	40.6%	54.1%	100.0%	31.4%	40.1%	39.1%	13.29
Learning Disability ▼	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.3%	0.5%	1.0%	0.0%	12.4%	12.7%	13.1%	0.0%	8.4%	5.7%	8.7%	1.39
Dementia ▼	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.6%	22.1%	16.4%	0.0%	39.8%	37.2%	26.1%	2.59
Other Characteristics	0.070	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.070	0.070	20.076	22.170	10.470	0.070	33.0 /0	J1.270	20.170	2.57
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%	3.3%	2.1%	1.6%	0.0%	15.2%	14.6%	17.4%	0.5%
Social Vulnerability (eFI)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.4%	6.7%	8.2%	0.0%	13.8%	14.0%	14.8%	0.0%	38.5%	35.6%	30.4%	
																2020102222		33000000		3.19
History of Smoking (Tw ▼	0.0%	0.0%	0.0%	0.0%	11.0%	15.8%	20.2%	42.9%	8.0%	13.4%	22.5%	33.3%	8.3%	18.4%	28.7%	0.0%	4.3%	6.1%	13.0%	6.99
Not Fit for Work (In Year) ▼	0.0%	0.0%	0.0%	0.0%	6.1%	9.0%	12.9%	0.0%	6.4%	9.9%	15.4%	33.3%	4.6%	6.5%	11.5%	0.0%	1.6%	2.0%	8.7%	4.1%
On a Waiting List ▼	4.3%	4.8%	4.3%	0.0%	8.8%	8.7%	10.8%	14.3%	13.7%	16.7%	13.7%	33.3%	23.7%	22.3%	23.0%	0.0%	23.9%	30.4%	21.7%	9.69

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**



Practice	•	Annandale Me	edical Centre			Highview Me	dical Centre			Parkfield Me	dical Centre		
Deprivation	Low Deprivation	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivation	Not known	Grand Total
Overall Population Measure	es												
Population	4,517	2,744	153		4,498	4,163	707	15	6,907	4,554	608	28	28,89
Age	41	40	37	41	37	39	38	29	43	39	35	45	4
Male %	49.0%	48.0%	45.8%	0.0%	45.3%	49.5%	48.5%	53.3%	48.1%	49.7%	46.5%	60.7%	48.29
IMD	9.3	6.1	3.0		9.1	5.6	3.0		9.1	6.0	3.0		7.
% BAME (where recorded)	20%	23%	16%	0%	26%	21%	26%	7%	22%	23%	29%	8%	239
Multimorbidity (acute & chronic)	1.2	1.2	1.6	0.3	1.0	1.2	1.2	1.1	1.2	1.2	1.0	0.1	1.
Finance and Activity Meas	ures												
Spend - Total	£3.1M	£1.9M	£0.1M	£0.0M	£3.0M	£3.7M	£0.5M	£0.0M	£5.0M	£3.1M	£0.4M	£0.0M	£20.7N
PPPY - Total	£680	£708	£685	£95	£658	£881	£743	£1,074	£724	£676	£607	£32	£71
Acute Elective	£241	£241	£148	£0	£253	£309	£247	£235	£232	£226	£185	£0	£240
Acute Non-Elective	£280	£300	£309	£0	£243	£388	£330	£659	£328	£295	£279	£0	£307
GP Encounters	£140	£140	£142	£95	£129	£147	£142	£134	£138	£132	£124	£32	£137
Community	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£
Mental Health	£18	£27	£86	£0	£31	£35	£24	£47	£22	£23	£18	£0	£20
Social Care	£1	£0	£0	£0	£1	£2	£1	£0	£5	£0	£0	£0	£
GP PPPY	20	20	20	14	22	25	24	23	23	22	21	5	22
Beddays PPPY - Acute EM	0	1	0	0	0	1	0	0	1	0	0	0	
Physical Health													
Diabetes ▼	14.1%	13.4%	11.1%	25.0%	13.4%	15.7%	14.6%	20.0%	13.0%	12.8%	12.8%	3.6%	13.79
COPD •	1.8%	2.4%	2.6%	0.0%	1.8%	3.4%	5.1%	0.0%	2.0%	2.3%	1.6%	0.0%	2.3%
Chronic Respiratory Dis ▼	2.3%	2.8%	3.3%	0.0%	2.2%	3.8%	5.4%	0.0%	2.4%	2.6%	2.1%	0.0%	2.79
Hypertension ▼	16.3%	15.5%	15.0%	0.0%	12.6%	15.4%	14.3%	13.3%	15.9%	13.7%	11.7%	0.0%	14.9%
Obesity ▼	25.2%	25.6%	22.9%	25.0%	8.0%	11.4%	10.5%	13.3%		11.2%	11.0%	0.0%	
Mental Health													
Anxiety/Phobias ▼	10.4%	10.6%	19.6%	0.0%	7.4%	11.0%	11.6%	13.3%	6.8%	8.2%	8.9%	0.0%	8.9%
Depression ▼	12.0%	13.2%	25.5%	0.0%	12.7%	18.7%	20.4%	20.0%	10.4%	12.6%	15.8%	3.6%	13.29
Learning Disability ▼	0.9%	0.7%	2.6%	0.0%	1.5%	1.7%	1.3%	0.0%	1.2%	1.4%	1.3%	0.0%	1.39
Dementia ▼	3.3%	3.6%	6.5%	0.0%	1.7%	2.8%	1.3%	0.0%	2.3%	2.0%	1.2%	0.0%	2.59
Other Characteristics	3.370	3.076	0.5 %	0.076	1.7 70	2.0 /0	1.3/0	U.U70	2.3%	2.0 70	1.2/0	0.076	2.37
Housebound (eFI)	0.7%	0.5%	0.0%	0.0%	0.4%	0.4%	0.8%	0.0%	0.6%	0.5%	0.0%	0.0%	0.5%
Social Vulnerability (eFI)	2.5%	2.7%	2.6%				3.3%		3.7%	3.8%	3.6%	0.0%	3.19
				0.0%	2.0%	3.0%		0.0%					
History of Smoking (Tw ▼	5.4%	6.8%	12.4%	0.0%	4.5%	9.0%	11.2%	20.0%	5.3%	9.2%	13.3%	3.6%	6.9%
Not Fit for Work (In Year) ▼	3.5%	4.6%	5.9%	0.0%	3.1%	5.5%	7.6%	6.7%	3.1%	4.8%	7.6%	0.0%	4.19
On a Waiting List	8.5%	8.9%	7.2%	0.0%	10.6%	12.3%	11.5%	13.3%	8.7%	9.0%	8.1%	0.0%	9.6%

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



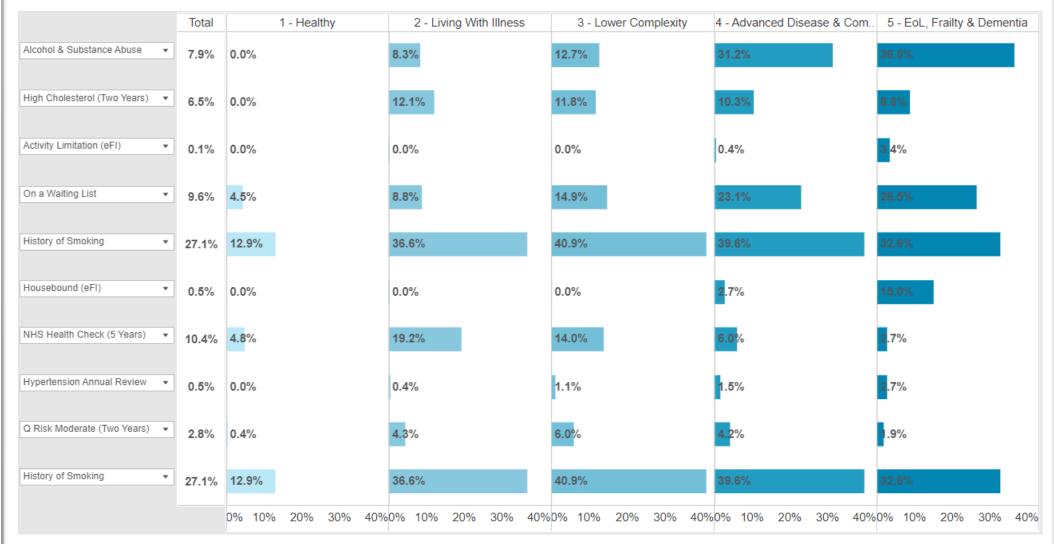
For people with this condition

		•				Other Condit	ions					
Initial Condition	Alzheimers Disease	Asthma	COPD	Heart Failure	Anxiety	Dementia	Alcohol Abuse	ABCD Prescription	Anti- Depressive Prescription	Activity Limitation (eFI)	Housebound (eFI)	No Other Condition
Alzheimers Disease		34%	13%	6%	51%	90%	18%	31%	43%	1%	6%	4%
Asthma	3%		8%	2%	15%	5%	3%	23%	20%	0%	1%	44%
COPD	7%	48%		14%	22%	14%	8%	59%	30%	0%	4%	0%
Heart Failure	6%	27%	25%		13%	15%	4%	92%	19%	1%	6%	0%
Anxiety	7%	25%	6%	2%		10%	6%	23%	49%	0%	1%	17%
Dementia	42%	30%	13%	8%	35%		11%	44%	37%	1%	7%	3%
Alcohol Abuse	10%	21%	9%	3%	28%	13%		26%	30%	0%	1%	19%
ABCD Prescription	2%	20%	8%	7%	12%	7%	3%		22%	0%	2%	16%
Anti-Depressive Prescription	4%	23%	6%	2%	36%	8%	5%	30%		0%	1%	21%
Activity Limitation (eFI)	10%	24%	0%	7%	10%	17%	7%	48%	24%		14%	10%
Housebound (eFI)	12%	21%	16%	15%	16%	34%	4%	69%	33%	3%		5%

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**



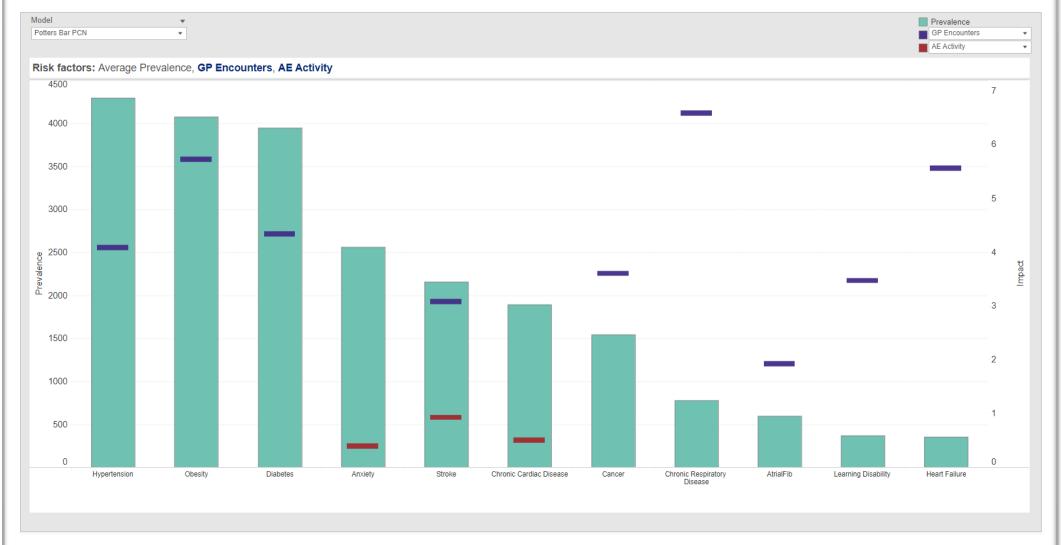


This chart gives a comparison across various selected risk conditions or characteristics, within the health segments of the PCN's population.

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.

# **Public Health - Cancer Screening**





# **Cancer Screening**

Period	HERTFORDSHIRE AND WEST ESSEX	POTTERS BAR PCN	PARKHELD MEDICAL CENTRE	HIGHVIEW MEDICAL GENTRE	ANNANDALE MEDICAL CENTRE
2020/21	73.3	69.6	68.6	67.7	73.5
2020/21	78.2	79.5	80.8	77	80.5
2020/21	73	69.9	68.2	68.8	73.8
2020/21	77	77.8	79.3	74.9	79
2020/21	63.9	69	69.9	66.6	70.5
2020/21	61.3	73.3	72	77	74.8
2020/21	72.1	71.9	72	69.4	74.5
2020/21	68.8	69.5	69.6	66.1	73.3
	2020/21 2020/21 2020/21 2020/21 2020/21 2020/21	2020/21 73.3 2020/21 78.2 2020/21 73 2020/21 77 2020/21 63.9 2020/21 61.3 2020/21 72.1	2020/21 73.3 69.6 2020/21 78.2 79.5 2020/21 73 69.9 2020/21 77 77.8 2020/21 63.9 69 2020/21 61.3 73.3 2020/21 72.1 71.9	2020/21 73.3 69.6 68.6 2020/21 78.2 79.5 80.8 2020/21 73 69.9 68.2 2020/21 77 77.8 79.3 2020/21 63.9 69 69.9 2020/21 61.3 73.3 72 2020/21 72.1 71.9 72	2020/21 73.3 69.6 68.6 67.7 2020/21 78.2 79.5 80.8 77 2020/21 73 69.9 68.2 68.8 2020/21 77 77.8 79.3 74.9 2020/21 63.9 69 69.9 66.6 2020/21 61.3 73.3 72 77 2020/21 72.1 71.9 72 69.4

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Similar Significantly Worse Significantly Better

## **Public Health - Mortality**





	Period	Hertfordshire	NHS HERTFORDSHIRE AND WEST ESSEX ICB - 06N	POTTERS BAR PCN
Percentage of deaths that occur at home (All	2021	25.3	23.9	25
PYLL - Neoplasms	2021	505	498.3	594.3
PYLL - Diseases of the circulatory system	2021	737.5	690.5	904.6
PYLL - All Cause	2021	1537.7	1496.4	1633.2
Premature Mortality - Respiratory Disease	2021	19.2	19	
Premature Mortality - Liver Disease	2021	14.6	14.4	E I
Premature Mortality - Cardiovasular Disease	2021	53.8	51.4	79
Premature Mortality - Cancer	2021	98.5	97.1	117.6
Premature Mortality - All Cause	2021	269.6	262.3	305.7

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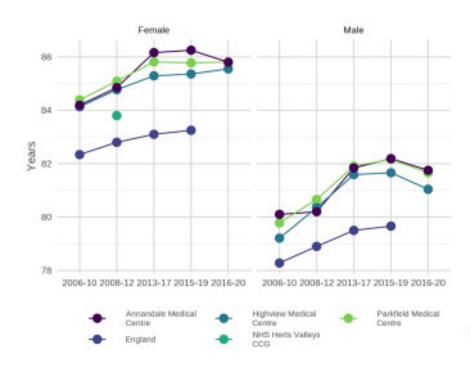


#### **Public Health - Life Expectancy**

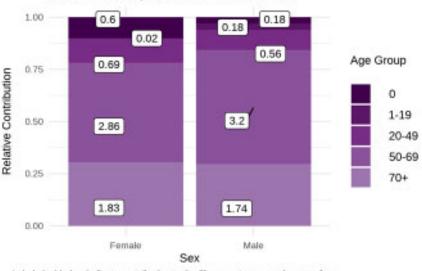




# **Life Expectancy**



Contribution of different age bands to the gap between the most and least deprived areas within Hertsmere



Labels inside bar indicate contribution to the life expectancy gap in years for each age group. This can be used to target interventions at age groups with the biggest inequality in life expectancy. The gap in life expectancy at birth for females is 6 years and for males is 5.86 years.

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**Working together** for a healthier future