



Primary Care Networks Overview Pack

DELTA 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



Delta PCN has a similar population profile compared to England except in the age categories 15-29 which is lower and higher in the age categories 40-64. The majority of people live within the 3 least deprived deciles (8-10).

27.5% population have at least 1 Long Term Condition. 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 30-34, 45-49 and 60-64 which is higher and lower in age categories 65-74.

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

The spread of patients for Delta PCN indicates 15.11% 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 Dacorum 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 ~28k to ~34k.

When analysing the underlying Segmentation Model data the conditions with highest per 1,000 registered prevalence that are highlighted for Delta PCN are Obesity, Diabetes, MH, Anxiety, Serious Mental Illness and Alzheimers.

Urgent & Emergency Care in 2022/23 for Delta PCN A&E Attendance rates per 1,000 population, is just 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, Delta has a lower rate per 1,000 population, than the average.

When looking at the ACS conditions for Delta 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 as well as in Lower Complexity segment. It is to be noted that under Advanced Disease and Complexity segment there is a notable use by the Child age group. In the Lower Complexity segment, there is a notable use by the 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 Heart Failure with the highest volume and cost, followed by AF and Flutter. For those people aged over 65 within the End of Life, Frailty & Dementia is highlighted as Heart Failure followed by AF and Flutter and COPD in terms of 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 Delta 3.8% 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 that the general population as are all activity measures. The average number of Chronic Conditions for people within Delta 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, Heart Disease, Diabetes, Obesity and Strokes 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 but equivalent to the ICB.

For Delta the data shows higher AF and Heart Failure rates which was identified as a theme within the ACS analysis.

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



Total Population

Population pyramid

90+ 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 10-14

DELTA PCN

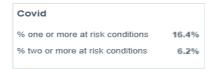
Snapshot as at: 30/06/2021

100.0%
1.3%

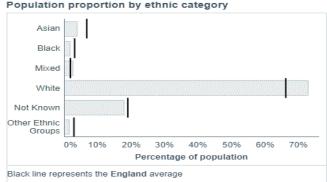
Demogr	aphics			
% White	72.7%	% IMD top	0.8%	
% BAME	9.5%	% IMD bottom	45.3%	

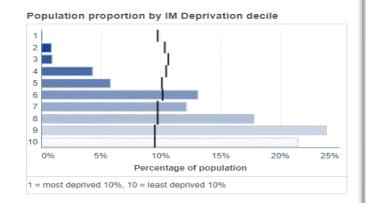
Prevalence	
% with 1+ conditions	27.5%
% with 5+ conditions	2.8%

Acute utilisation	
% of annual activity (total 52,250)	100.0%
% of annual cost (total £14M)	100.0%



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





Choose benchmark:

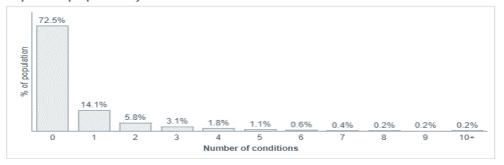
Prevalence - Snapshot as at: 30/06/2021

Population proportion by number of conditions

2%

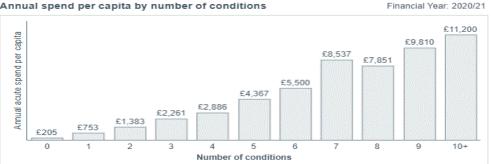
Percentage of males

Black line represents the England average



Percentage of females

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.

Delta PCN has a similar population profile compared to England except in the age categories 15-29 which is lower and higher in the age categories 40-64. The majority of people live within the 3 least deprived deciles (8-10).

PCN Demographics - NHS England



LTC DELTA PON

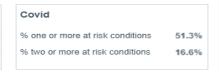
Snapshot as at: 30/06/2021

Registered population	
% of total	24.1%
% of annual change	6.0%

Demogr	aphics		
% White	88.0%	% IMD top	0.9%
% BAME	8.4%	% IMD bottom	45.8%

Prevalence	
% with 1+ conditions	100.0%
% with 5+ conditions	5.0%

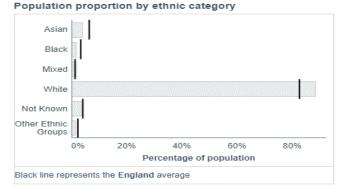
Acute utilisation	
% of annual activity (total 24,319)	46.5%
% of annual cost (total £6M)	41.5%

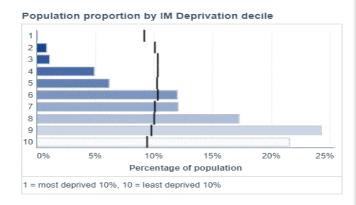


Population demographics - Snapshot as at: 30/06/2021

Population pyramid

90+ 85-89 80-84 75-79 70-74 65-69 60-64 45-49 40-44 35-39 30-34 25-29 10-14 5-9 0-4





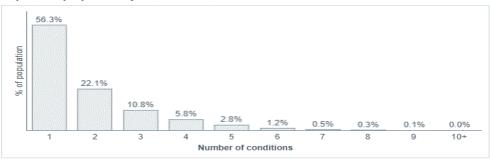
Choose benchmark:

Prevalence - Snapshot as at: 30/06/2021

Black line represents the England average

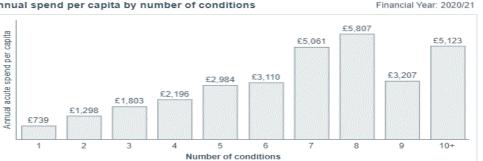
Percentage of males

Population proportion by number of conditions



Percentage of females





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 27.5% population have at least 1 Long Term Condition. 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 30-34, 45-49 and 60-64 which is higher and lower in age categories 65-74.

Practice Indicators - Triggers and Levels



Practice Indicators for	DELTA PCN	ARCHWAY SURGERY			на	VERFIELD SURG	ERY	KING	S LANGLEY SUR	GERY	LINCOLN HOUSE SURGERY				
Clinical Domain	Indicator Name	Latest Score	Time Period	Trigger Level	Latest Score	Time Period	Trigger Level	Latest Score	Time Period	Trigger Level	Latest Score	Time Period	Trigger Leve		
linical Diagnosis	Detection rate Cancer	0.5	2020/21	No Trigger	0.529	2020/21	No Trigger	0.604	2020/21	No Trigger	0.534	2020/21	No Trigge		
oronary heart disease	% AF anticoagulation therapy CHADS2-VASc score >1	100	2020/21	Positive	88.7	2020/21	Positive	95.7	2020/21	Positive	95.5	2020/21	Positive		
	% CHD aged <=79 BP reading 140/90mmHg or less	30.4	2020/21	Level 2	57.4	2020/21	Level 1	72.3	2020/21	Level 1	38.2	2020/21	Level 2		
	% CHD cholesterol 5 mmol/l or less	57.4	2021/22	No Trigger	56.9	2021/22	No Trigger	65.3	2021/22	No Trigger	65.5	2021/22	No Trigge		
	% hypertension aged <= 79 BP reading 140/90mmHg or less	27.2	2020/21	Level 2	54.1	2020/21	Level 1	60.8	2020/21	Level 1	30.7	2020/21	Level 2		
iabetes	% Diabetes aged >=40 years no CVD history without moderate or severe frailty treated with statin	63.1	2020/21	Level 1	70.5	2020/21	Level 1	73.6	2020/21	Level 1	84.5	2020/21	Level 1		
	% Diabetes without moderate or severe frailty BP 140/80 mmHg or less	39.4	2020/21	Level 1	36.3	2020/21	Level 2	59.2	2020/21	Level 1	39.4	2020/21	Level 1		
	% diabetes without moderate or severe frailty IFCC-HbA1c is 58 mmol/mol or less	52.2	2020/21	Level 1	35.6	2020/21	Level 2	52.4	2020/21	Level 1	46	2020/21	Level 2		
ception Rating	Overall Personalised Care Adjustment Rate	0.032	2020/21	No Trigger	0.031	2020/21	No Trigger	0.034	2020/21	No Trigger	0.045	2020/21	No Trigg		
ledicines Management	t % antibiotics Co-amoxiclav, Cephalosporins, Quinolones	5.7	2021/22 Q4	Positive	12.1	2021/22 Q4	Level 1	14	2021/22 Q4	Level 1	9.6	2021/22 Q4	No Trigg		
	% Naproxen and Ibuprofen	84.6	2021/22 Q4	No Trigger	78.7	2021/22 Q4	No Trigger	78.8	2021/22 Q4	No Trigger	80.1	2021/22 Q4	No Trigg		
	Antibacterial Items/Star Pu	0.613	2021/22 Q4	Positive	0.703	2021/22 Q4	Positive	0.608	2021/22 Q4	Positive	0.776	2021/22 Q4	Positiv		
	Hypnotics ADQ/Star Pu	0.505	2021/22 Q4	No Trigger	0.243	2021/22 Q4	Positive	0.409	2021/22 Q4	No Trigger	0.93	2021/22 Q4	No Trigg		
	Oral NSAIDS ADQs/STAR-PU	2.876	2021/22 Q4	No Trigger	1.384	2021/22 Q4	Positive	1.832	2021/22 Q4	Positive	3.193	2021/22 Q4	No Trigg		
ental Health	% first choice generic SSRIs	82.4	2021/22 Q4	Positive	78.3	2021/22 Q4	Positive	75.8	2021/22 Q4	No Trigger	64.3	2021/22 Q4	No Trigg		
	% MH comprehensive care plan	15.4	2020/21	Level 1	25	2020/21	Level 1	23.8	2020/21	Level 1	27.4	2020/21	Level :		
	% SMI alcohol record	66.7	2018/19	Level 1	15.4	2020/21	Level 2	21	2020/21	Level 2	97.8	2018/19	No Trigg		
	% SMI BP record	23.1	2020/21	Level 2	66.7	2020/21	Level 1	58.5	2020/21	Level 1	41.5	2020/21	Level 2		
	Dementia Face to Face review	57.1	2020/21	Level 1	17.2	2020/21	Level 1	16.7	2020/21	Level 1	46.1	2020/21	Level :		
	Select antidepressants ADQs/STARPU	1.176	2021/22 Q4	No Trigger	1.313	2021/22 Q4	No Trigger	1.227	2021/22 Q4	No Trigger	1.758	2021/22 Q4	No Trigg		
tient Experience	Confidence and trust in healthcare professional	98.5	2020/21	No Trigger	98	2020/21	No Trigger	96.5	2020/21	No Trigger	95.8	2020/21	No Trigg		
	Frequency seeing preferred GP	83.2	2020/21	Positive	84.4	2020/21	Positive	53.4	2020/21	No Trigger	37.1	2020/21	No Trigg		
	Healthcare professional treating with care and concern	92.9	2020/21	No Trigger	91.7	2020/21	No Trigger	91.9	2020/21	No Trigger	85	2020/21	No Trigg		
	Overall experience of your GP practice	94.8	2020/21	No Trigger	96.9	2020/21	Positive	91	2020/21	No Trigger	86.7	2020/21	No Trigg		
	Satisfaction with appointment times	82.6	2020/21	No Trigger	91.6	2020/21	Positive	79.6	2020/21	No Trigger	67.5	2020/21	No Trigg		
ıblic Health	% Child Imms DTaP/IPV/Hib/HepB (age 1 year)	93.9	2020/21	Level 1	100	2020/21	Positive	97.6	2020/21	No Trigger	94.7	2020/21	Level 1		
	% Child Imms Hib/MenC booster	75	2020/21	Level 1	84.8	2020/21	Level 1	96	2020/21	No Trigger	90.4	2020/21	Level 1		
	% Child Imms MMR (Age 2 yrs)	75	2020/21	Level 1	84.8	2020/21	Level 1	94	2020/21	Level 1	90.4	2020/21	Level 1		
	% Child Imms PCV Booster	75	2020/21	Level 1	84.8	2020/21	Level 1	95	2020/21	No Trigger	90	2020/21	Level 1		
	Cervical Screening	76.3	2021/22 Q4	Level 1	80.7	2021/22 Q4	No Trigger	78.6	2021/22 Q4	Level 1	73.2	2021/22 Q4	Level 1		
spiratory	% Asthma review in last 6 mths	36.4	2020/21	Level 1	7.4	2020/21	Level 1	76.5	2020/21	No Trigger	9.5	2020/21	Level 1		
	% Asthma spirometry and one other objective test	0	2020/21	No Data	0	2020/21	Level 1	0	2020/21	Level 2	0	2020/21	Level 2		
	% COPD with review in last 12 mths	85	2020/21	Level 1	14	2020/21	Level 2	59.4	2020/21	Level 1	19.2	2020/21	Level 1		
	% LTC patients who smoke	9.9	2020/21	No Trigger	8.8	2020/21	No Trigger	10	2020/21	No Trigger	10.9	2020/21	No Trigg		
	% LTC Smoker offer support	100	2020/21	No Trigger	70.8	2020/21	Level 1	99.4	2020/21	No Trigger	97.3	2020/21	No Trigg		
	% Smoking patients over 15 recorded	70.7	2021/22	No Trigger	78.5	2021/22	No Trigger	73.8	2021/22	No Trigger	71.9	2021/22	No Trigg		
	% Smoking status recorded	90.1	2020/21	No Trigger	94.2	2020/21	No Trigger	92.4	2020/21	No Trigger	91.3	2020/21	No Trigg		
	% w. MRC dyspnoea score >=3 w. offer of referral to pulm. rehab. Clinic	81.8	2020/21	Level 1	33.3	2020/21	Level 1	100	2020/21	No Trigger	9.1	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/).

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 Delta PCN an estimated:

- 9% of children live in poverty.
- 8.4% of older people live in poverty.
- 10.4% of households live in fuel poverty.
- 5.5% of households are overcrowded.
- 30.7% of people aged 65 and over live alone.
- 0.5% of people cannot speak English well.
- 3.3% of working age people are claiming out of work benefits.
- 19.3% of children aged 4-5 and 29.2% 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 Delta.

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

Spread of Patients

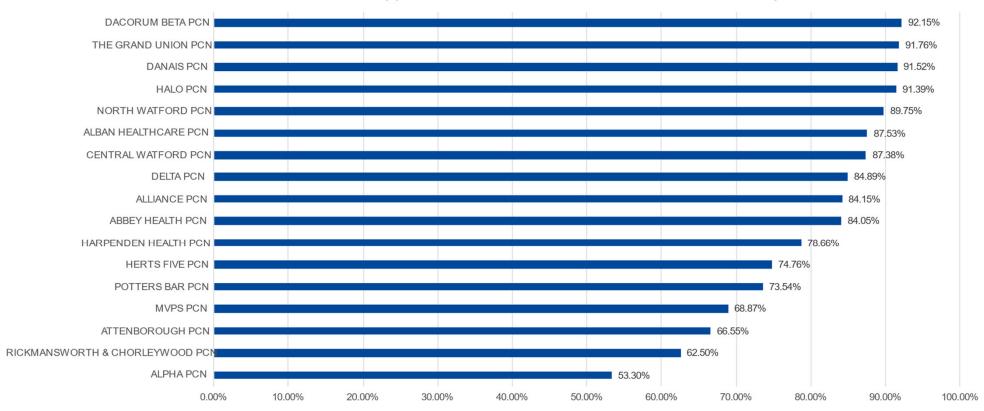


Correct as of July 2022

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 Delta PCN indicates 15.11% 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.

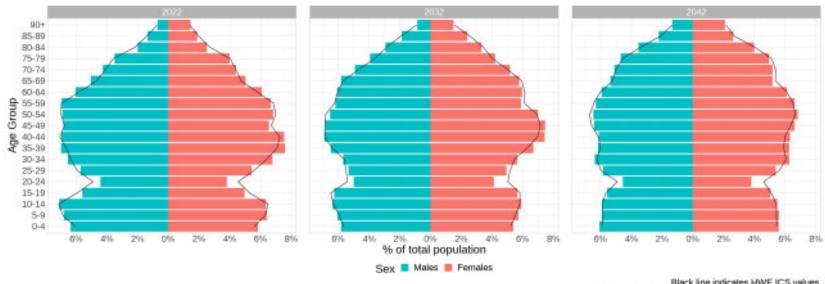
Source: Essex County Council PHM Team, NHS Digital (2022)

Public Health - Population Projections





Projection Pyramids



Black line indicates HWE ICS values.

Population pyramids and table shown for Dacorum 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	9,581	9,050	9,626
Under 24	45,285	45,492	44,180
24-64	83,652	81,742	82,679
65+	28,434	34,526	38,238
85+	4,253	5,368	6,853

PH.Intelligence@hertfordshire.gov.uk





Expected population growth for Dacorum 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 ~28k to ~34k.

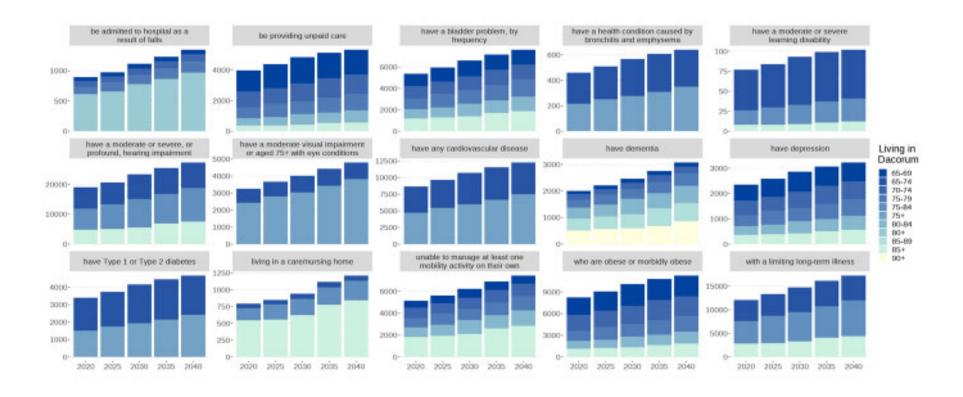
Source: Public Health Team

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

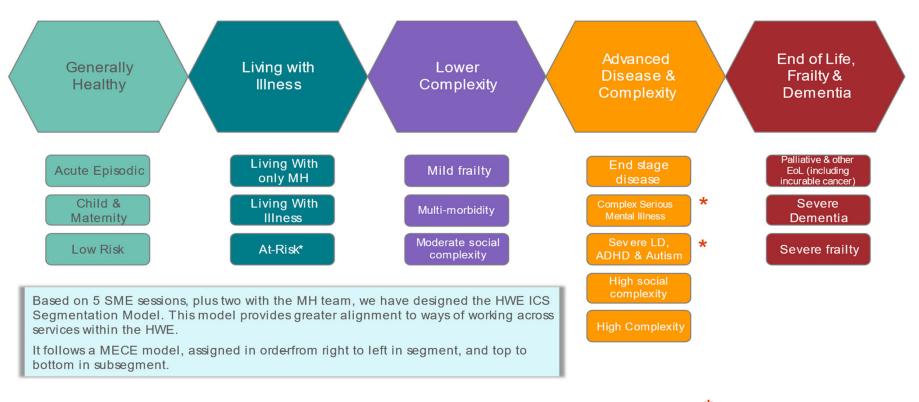


The ICB has worked in partnership with Optum to develop a Health Segmentation model using linked data covering 1.2m of our ICS population. As part of the process representation from different care settings and internal ICB teams were engaged.

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

Optum

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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.

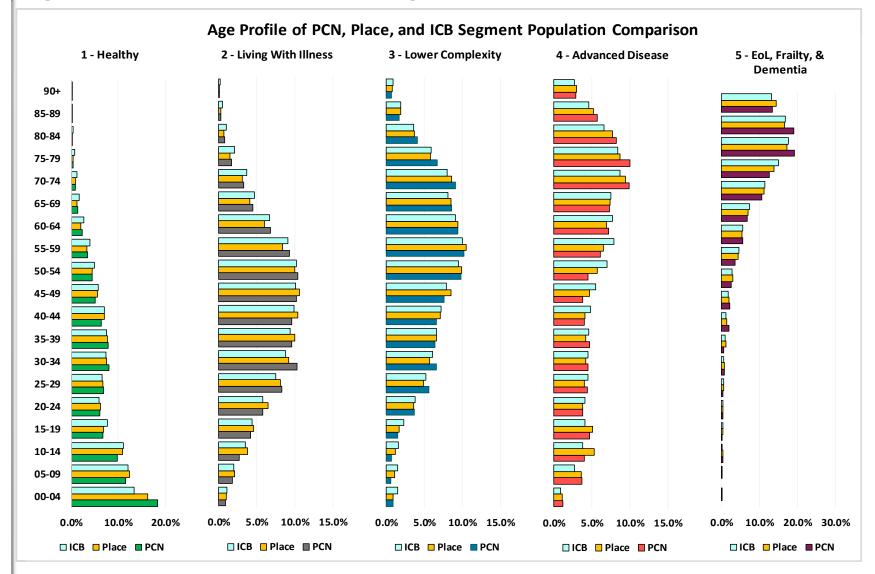
Social & Clinical Outcomes

- 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





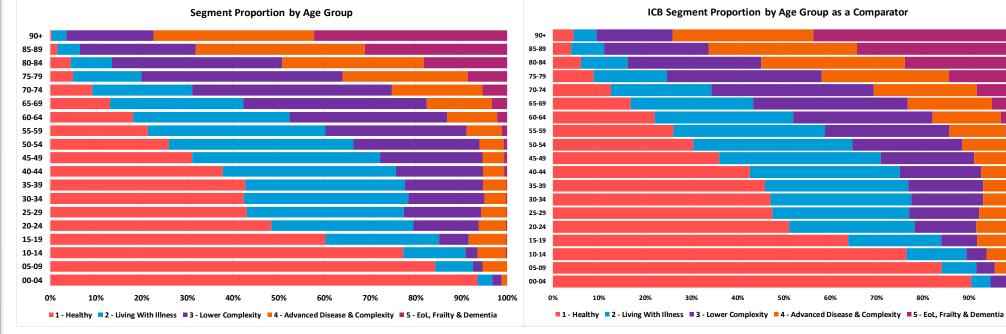
Each registered person is assigned to a segment and this can be cut by age group and also geographically by Place or PCN.

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

Demographic Breakdowns - Segment & Deprivation Quintiles



100%

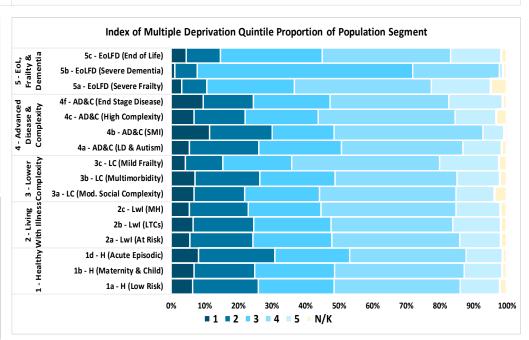




The illustration on the left represents the PCN breakdown whilst the one on the rights shows the ICB breakdown.

Overall Delta 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



PCN NAME		7	7	7 /	//	7 /							7		**************************************	//	/	/ / / / / / / / / / / / / / / / / / /	
PCN NAME	2	THE THE PERSON OF THE PERSON O	Asimis	Disperson	Dementis	Suce.	To solitore in the second seco	A Moore a sign		Chromic Homes, C.	Heart Disease	Hear Fallura	Arialfil	Supplied to the state of the st	Dear esign	THE .	View View View View View View View View	Serious Member III	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 Delta PCN are Obesity, Diabetes, MH, Anxiety, Serious Mental Illness and Alzheimers.

Continued



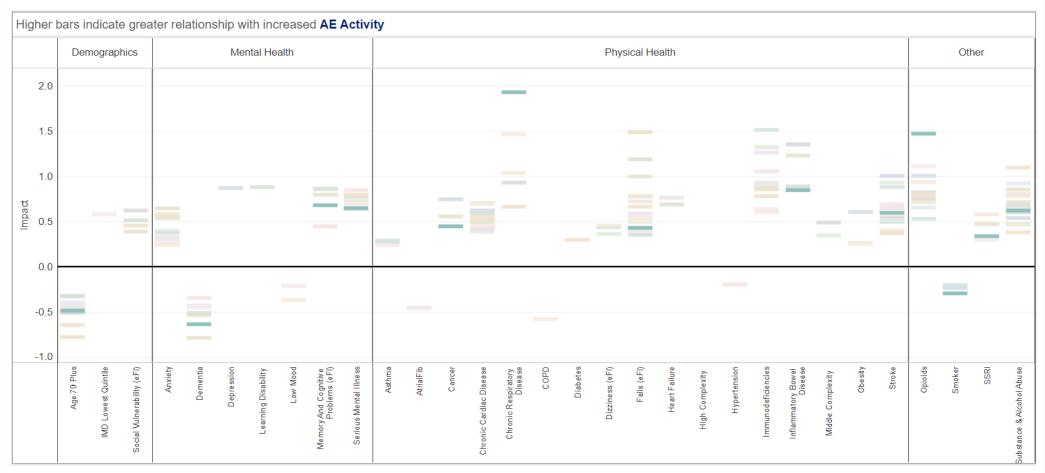
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ABBEY HEALTH	14.98	1.20	20.95	0.40	0.04	9.37	2.04	2.48	1.56	0.52	0.28	14.46	1.20	2.08	7.53	0.92	0.44	1.48	25.51
ALBAN HEALTHCARE	13.61	1.20	22.10	0.77	0.23	11.13	2.30	3.02	1.73	0.30	0.33	24.28	1.10	2.77	8.39	1.43	0.28	1.34	31.80
ALLIANCE	17.30	1.66	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 ASD, Huntington Disease, Parkinsons Disease and High BP.

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

PCN Benchmarking - A&E Activity





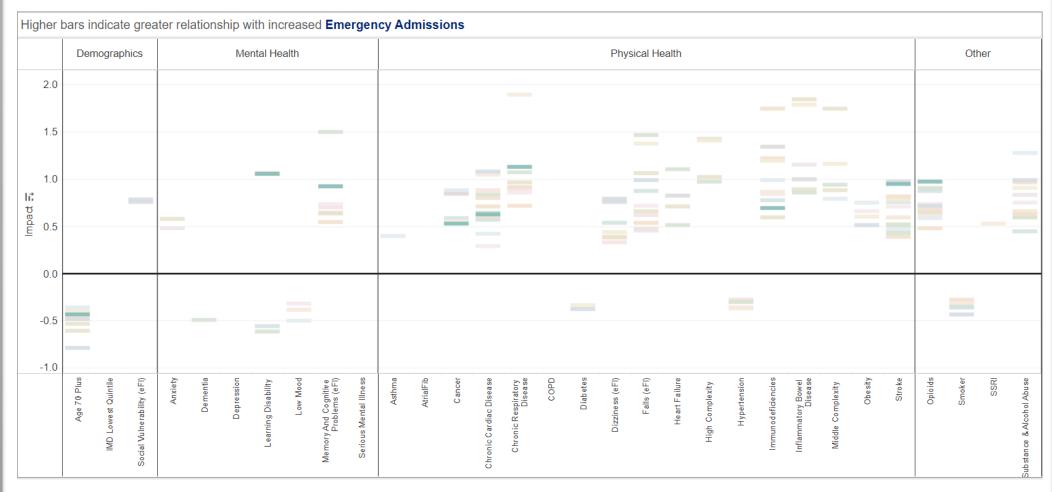
The charts in the next two pages show activity for the PCN compared against all other PCNs at the Place level.

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.

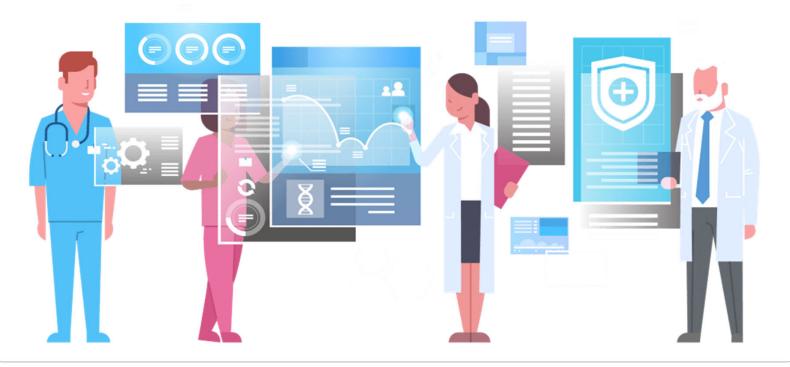
Overall aim

* 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?

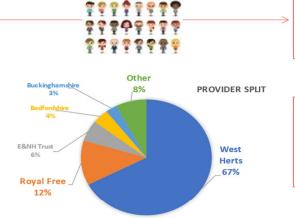
Children 0 -18 Adults 19 -64 Older People 65+

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

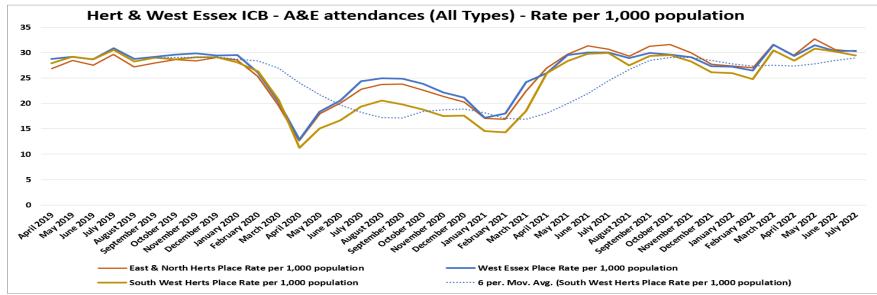


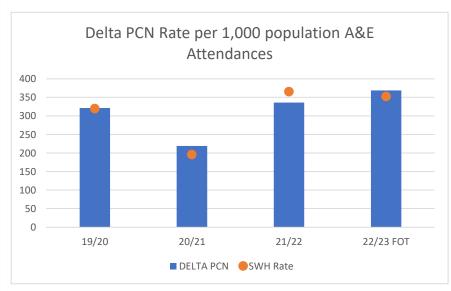


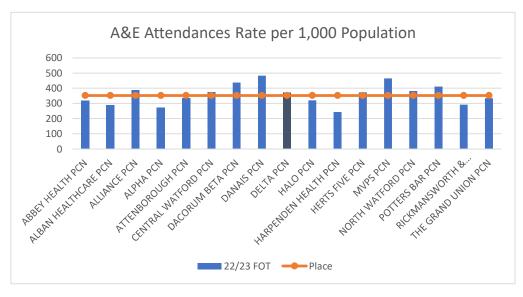
Source: SUS

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

Unplanned Hospitalisation for Chronic Ambulatory Care Sensitive Conditions



Tariff Tatal

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 Delta 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	67	59	£1,981	£132,727
CVD: Angina	16	13	£1,387	£22,185
CVD: Congestive Heart Failure	66	56	£4,886	£322,471
CVD: Hypertension	25	24	£666	£16,659
Diseases of the blood	23	19	£2,467	£56,736
Mental and Behavioural Disorders	1	1	03	03
Neurological Disorders	37	18	£1,430	£52,892
Nutritional, endocrine and metabolic	37	27	£2,570	£95,079
Respiratory: Asthma	20	19	£1,332	£26,644
Respiratory: COPD	36	29	£3,239	£116,600
Grand Total	328	255	£2,567	£841,993

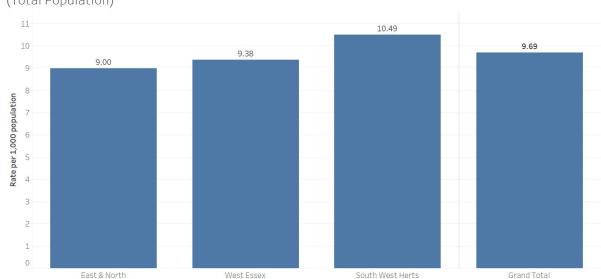
Source: HWE PHM Team, SUS UEC data-sets

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

ACS Admission Rates per 1,000 Population by Place





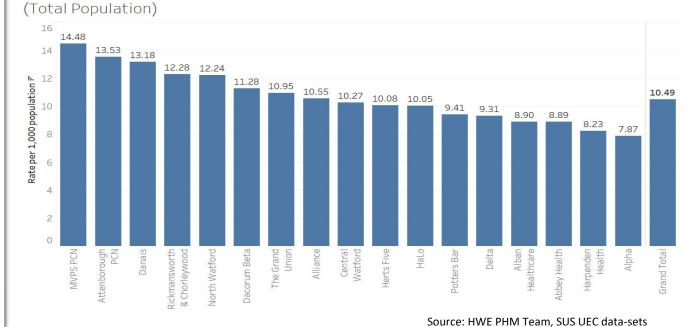


When comparing the Ambulatory Care Sensitive rates per 1,000 population between places, the South West Herts place has the highest rate in the ICB.

Within South West Herts place, Delta 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



Chronic ACS by Segment Hertfordshire and **West Essex** Integrated Care Board ACS by segment_age Segment IPRO Count of Sheet1 2 2 - Living With Illness 3 - Lower Complexity 4 - Advanced Disease & Co.. 5 - EoL, Frailty & Dementia 1 - Healthy Age gr.. ■ 20 **40 60** 75 Child Tariff Total Pa.. 2,118 288K 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 Delta 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 as well as in Lower Complexity segment. It is to be noted that under Advanced Disease and Complexity segment there is a notable use by the Child age group. In the Lower Complexity segment, there is a notable use by the 41-64 age group for volume and cost.

The following pages look at which ACSs contribute to this.

Source: HWE PHM Team, SUS UEC data-sets

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



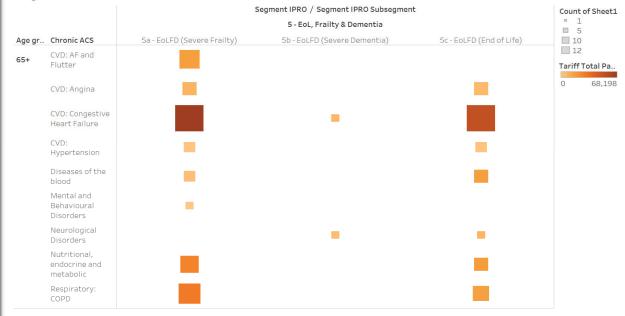




Ambulatory Care Sensitive conditions of note for people aged over 65 within the Advanced Disease and Complexity, is highlighted as Heart Failure with the highest volume and cost, followed by AF and Flutter.

For those people aged over 65 within the End of Life, Frailty & Dementia is highlighted as Heart Failure followed by AF and Flutter and COPD in terms of volume and cost.

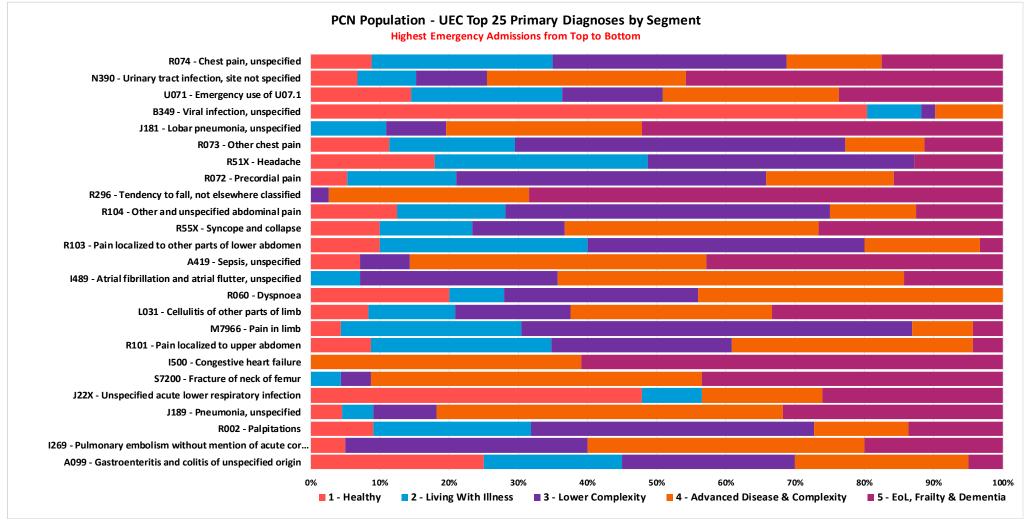
Segment 5



Source: HWE PHM Team, SUS UEC data-sets

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		2 - Living With Illness	3 - Lower Complexity	4 - Advanced Disease & Complexity	5 - EoL, Frailty & Dementia	Grand Total
Abbots Langley & Bedmond	9	7	9		2	34
Adeyfield East	10	1	9		73	
Adeyfield West	6	6	6		6	
Apsley and Corner Hall	81	65	81	102	37	366
Ashridge		1	1	2		4
Bennetts End	15	18	20	16	11	80
Berkhamsted Castle			2			2
Berkhamsted East		1		1		2
Berkhamsted West		1	5	1		7
Bovingdon, Flaunden and Chipperfield	49	56	162	159	118	544
Boxmoor	20	9	11	15	9	64
Bushey Park		2	1			3
Bushey St James				1		1
Central	1					1
Chaulden and Warners End	9	13	20	11	13	66
Chorleywood North & Sarratt	4	7	10	21	13	55
Dickinsons					1	
Gade Valley	56	41	54		27	228
Gadebridge	5	3				23
Grovehill	6	5	6		2	32
Hatfield South				1		1
Hemel Hempstead Town	7		20		5	69
Highfield	2	3	12	16	6	39
Holywell	50		70	404	1	1
Kings Langley	50	54	79 1	121	187	491
Leavesden Leverstock Green	21	1 33	44		1 23	3 175
Nascot	21	33	2		5	
Nash Mills	26	22	27		22	111
Park	20		21	14	22	2
Potters Bar Parkfield					1	1
Redbourn				4		4
Rickmansworth Town				2		2
Roebuck				1		1
Tring East			1			1
Tudor			3			3
Verulam					1	1
Waltham Abbey Paternoster				1		1
Watling		1				1
Woodhall Farm		3	4	1	9	17
Woodside	1		3			4
Unknown Ward	6	12	12	3	18	51
Grand Total	386	385	614	671	591	2647

UEC Patients Seen by Deprivation							Grand
Quintile & Ward 1 = Most Deprived, 5 = Least Deprived	1	2	3	4		(blank)	Total
<u> </u>		24			10		34
Abbots Langley & Bedmond Adeyfield East	35	24	75		10		110
Adeyfield West	25		73				32
Apsley and Corner Hall	31	104	91	140			366
Ashridge	31	104	1	3			4
Bennetts End	12		40	28			80
Berkhamsted Castle	12		40	20	2		2
Berkhamsted East			2				2
Berkhamsted West		6			1		7
		0	106	353	85		544
Bovingdon, Flaunden and Chipperfield Boxmoor			106	12	36		64
			3	12	30		
Bushey Park			3	1			3
Bushey St James			_	1			1
Central		1	10	4.0			1
Chaulden and Warners End		37	19	10			66
Chorleywood North & Sarratt				55			55
Dickinsons					1		1
Gade Valley		7	29	192			228
Gadebridge		19	4				23
Grovehill	22	10					32
Hatfield South			1				1
Hemel Hempstead Town	3	66					69
Highfield	39						39
Holywell		1					1
Kings Langley			141	213	137		491
Leavesden			3				3
Leverstock Green	25	83	10		57		175
Nascot				5	8		13
Nash Mills		72	39				111
Park					2		2
Potters Bar Parkfield				1			1
Redbourn		4					4
Rickmansworth Town			2				2
Roebuck	1						1
Tring East					1		1
Tudor			3				3
Verulam					1		1
Waltham Abbey Paternoster		1					1
Watling		1					1
Woodhall Farm	1		16				17
Woodside		4					4
Unknown Ward						51	51
Grand Total	194	440	608	1013	341	51	2647

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.

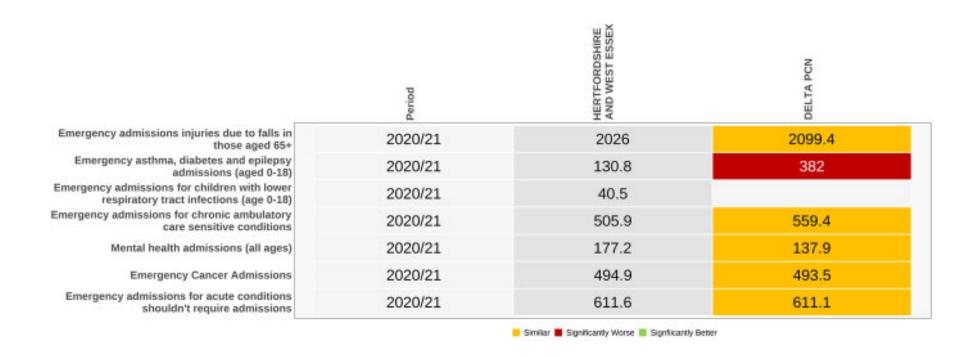
Source: HWE PHM Team, Combined population data re-extract via Optum, NHS England

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.

Delta PCN rates vary from Similar to Significantly Worse rate of admissions to the ICB, dependent on Admission categories.

Source: Public Health Team

Frailty Segment - Detailed PCN Breakdown



	Most depriv	/ed							Most affluent			-	
Index of Multiple Deprivation Decile	1	2	3	4	5	6	7	8	9	10	NULL	PCN	ICS
Overall Population Measures													
Population		2	7	18	17	48	136	136	180	159	3	706	3772
% of population in cohort		0.3%	1.0%	2.5%	2.4%	6.8%	19.3%	19.3%	25.5%	22.5%	0.4%	100.0%	100.0
Avg. Age		53.0	70.0	67.8	70.9	73.7	80.0	76.0	75.9	75.7	54.7	76.0	75.6
% BAME Where recorded	ĺ	50%	29%	24%	18%	21%	8%	8%	8%	10%	0%	10%	8%
Avg. number of Acute and Chronic Condition	S	1.5	6.1	5.8	6.4	6.2	6.4	5.8	6.0	5.4	5.3	5.9	5.5
Activity Measure													
Emergency Admissions		0.5	0.9	1.4	1.4	0.5	0.9	0.8	0.9	0.7	2.3	0.8	0.6
A&E Attendances		0.5	1.4	2.2	1.5	0.8	1.0	1.0	1.0	1.0	0.7	1.0	0.9
GP Encounters		32.5	82.6	80.1	88.9	57.8	74.2	70.6	66.3	73.7	56.0	70.7	103.
Admitted Bed Days		0.0	3.3	5.2	12.1	5.7	6.3	5.7	5.7	4.1	1.0	5.6	4.2
Physical Health													
Asthma		0.0%	28.6%	33.3%	17.6%	31.3%	25.7%	24.3%	21.7%	23.9%	33.3%	24.4%	25.29
Cancer		50.0%	14.3%	38.9%	29.4%	45.8%	28.7%	33.8%	31.7%	36.5%	33.3%	33.6%	32.8
Chronic Cardiac Disease		0.0%	57.1%	38.9%	64.7%	56.3%	50.0%	52.9%	45.0%	52.8%	33.3%	50.3%	47.5
Chronic Respiratory Disease		0.0%	42.9%	27.8%	23.5%	18.8%	26.5%	23.5%	16.1%	17.6%	33.3%	20.8%	22.2
CKD		0.0%	28.6%	27.8%	23.5%	25.0%	24.3%	17.6%	18.3%	23.3%	0.0%	21.2%	20.7
Heart Disease		0.0%	42.9%	38.9%	41.2%	45.8%	43.4%	42.6%	39.4%	43.4%	0.0%	41.9%	39.1
Hypertension		50.0%	71.4%	66.7%	64.7%	68.8%	80.9%	74.3%	76.1%	71.7%	66.7%	74.5%	74.5
Diabetes		50.0%	71.4%	33.3%	41.2%	45.8%	55.9%	53.7%	52.8%	52.2%	33.3%	52.3%	42.8
Obesity		0.0%	42.9%	55.6%	23.5%	43.8%	35.3%	41.2%	38.3%	34.0%	66.7%	37.8%	32.8
Rheumatoid Arthritis		0.0%	0.0%	5.6%	5.9%	4.2%	3.7%	5.1%	6.1%	5.0%	0.0%	5.0%	5.39
Stroke		0.0%	14.3%	27.8%	29.4%	43.8%	45.6%	39.0%	45.6%	40.3%	33.3%	41.6%	34.5
Mental Health													
Anxiety		0.0%	28.6%	38.9%	35.3%	31.3%	26.5%	22.1%	41.7%	25.2%	33.3%	30.0%	29.0
Depression		0.0%	28.6%	38.9%	58.8%	39.6%	39.0%	39.0%	43.3%	30.8%	33.3%	38.5%	33.6
Dementia		0.0%	28.6%	11.1%	23.5%	22.9%	47.1%	23.5%	25.0%	10.1%	33.3%	25.1%	18.6
Serious Mental Illness		0.0%	14.3%	11.1%	17.6%	12.5%	19.9%	8.8%	12.2%	5.0%	0.0%	11.5%	6.59
Low Mood		0.0%	14.3%	11.1%	23.5%	22.9%	18.4%	17.6%	15.6%	13.8%	0.0%	16.6%	18.5
Suicide		0.0%	0.0%	5.6%	0.0%	0.0%	2.9%	0.0%	1.1%	0.6%	0.0%	1.1%	1.5%
Mental Health Flag		0.0%	28.6%	44.4%	58.8%	58.3%	52.9%	50.7%	58.9%	40.3%	66.7%	51.1%	48.8
Screening and Verification Refusal													
Bowel Screening Refused		50.0%	14.3%	22.2%	47.1%	29.2%	20.6%	27.9%	26.1%	24.5%	33.3%	25.6%	25.5
Cervical Screening Refused		0.0%	0.0%	16.7%	11.8%	2.1%	2.9%	2.2%	2.8%	2.5%	0.0%	3.1%	3.69
Flu Vaccine Refused		50.0%	57.1%	33.3%	52.9%	18.8%	35.3%	40.4%	38.9%	32.1%	33.3%	36.0%	26.4
Wider Indicators													
Has A Carer		0.0%	28.6%	27.8%	17.6%	22.9%	27.9%	21.3%	17.2%	15.1%	0.0%	20.3%	19.0
Is A Carer		0.0%	14.3%	11.1%	0.0%	4.2%	7.4%	11.0%	10.0%	12.6%	33.3%	9.8%	11.9
MED3 Not Fit For Work (ever)		100.0%	28.6%	50.0%	11.8%	12.5%	13.2%	14.7%	10.0%	11.9%	33.3%	13.7%	13.4
MED3 Not Fit For Work (in Last Year)		0.0%	14.3%	22.2%	0.0%	0.0%	0.7%	4.4%	2.2%	2.5%	33.3%	3.0%	3.59
MED3 Not Fit For Work (in Last Six Months)		0.0%	0.0%	22.2%	0.0%	0.0%	0.7%	3.7%	1.1%	3.1%	0.0%	2.4%	2.89
Avg. number of eFI Deficits		1.0	11.9	9.8	14.1	10.9	12.8	12.7	13.1	12.5	8.7	12.6	13.4
eFI_Housebound		0.0%	14.3%	16.7%	5.9%	6.3%	13.2%	8.1%	5.6%	2.5%	33.3%	7.4%	10.9
eFI_SocialVulnerability		0.0%	28.6%	44.4%	41.2%	29.2%	33.8%	27.9%	35.0%	20.8%	0.0%	29.9%	27.3
People_ChildrenInPoverty			13.7			11.3	8.5					11.7	15.5
Housing_FuelPoverty		17.0	15.6	13.3	14.1	11.8	10.0	9.8	10.1	7.9		9.9	11.1
Housing OnePersonHousehold		29.4	38.6	27.2	36.8	28.8	29.3	25.2	31.6	22.5		27.8	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 Delta 3.8% 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 Delta 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, Heart Disease, Diabetes, Obesity and Stroke 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 but equivalent to the ICB.

Source: HWE PHM Team, SUS UEC data-sets

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:

	nge of predicted risk scores	% 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
- \rightarrow 2⁵ = 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	15.05
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**

Age < 3 AND ONE OF:-

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

Risk Grade: Medium

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

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:

All others

Source: HWE PHM Team

Quality & Outcomes Framework



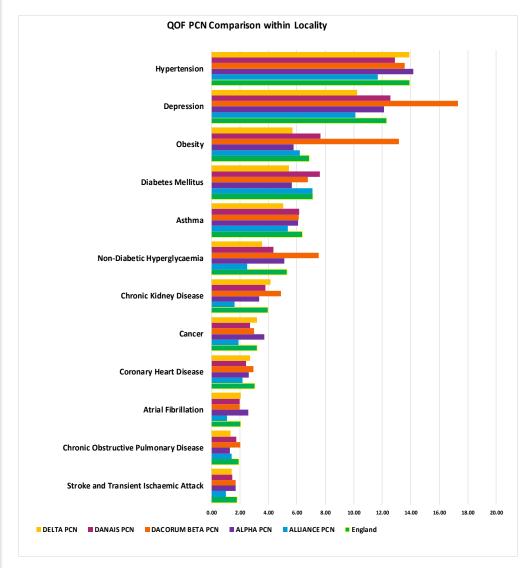
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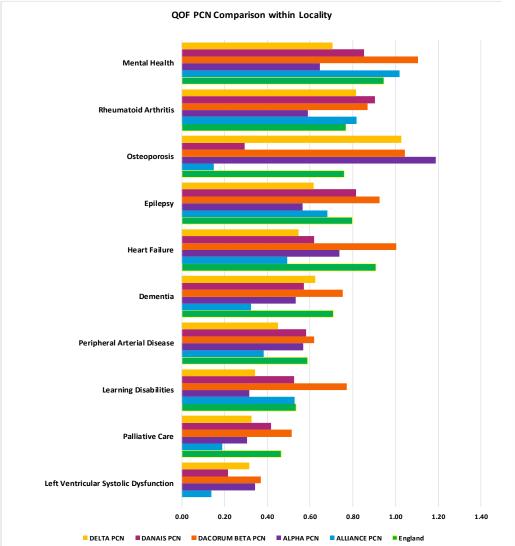
- QOF Local, Regional, & National Comparison
- QOF Locality & PCN Comparison
- QOF Missed Diagnoses & Admission Rates
- Admission Rates Benchmarking against ICB/Place



QOF - Locality & PCN Comparison





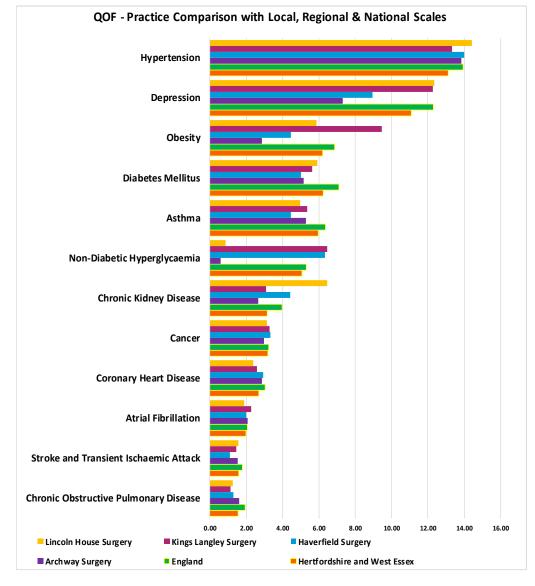


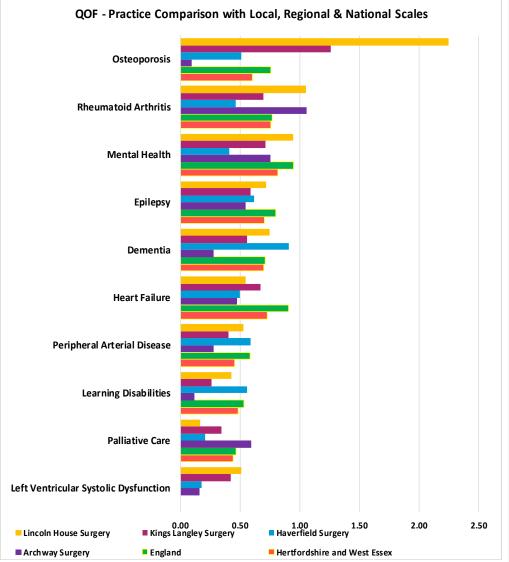
The Quality and Outcome Framework incorporates important benchmarking and scoring for all Practices across the county; we have combined a number of local, regional, and national data sets to highlight the areas that the PCN will need to consider.

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.

Source: QOF National Figures, HWE PHM Team

QOF - Missed Diagnoses & Admission Rates



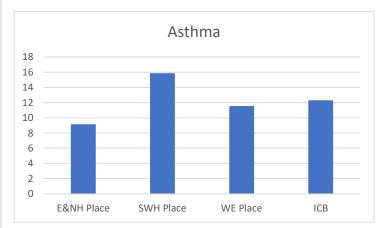
Disease	QOF List size 21-22	QOF Register 21- 22	QOF Prevalence 21/22	Place prevalence	ICB prevalence	Modelled prevalence	New diagnoses to meet Place average	new diagnoses to meet ICB average	New diagnoses to meet estimated prevalence
Asthma	32561	1779	5.46%	5.89%	6.17%		138	229	
COPD	35010	414	1.18%	1.38%	1.49%	2.00%	69	106	287
Diabetes	28297	1633	5.77%	6.26%	6.39%	7.77%	138	174	567
Non-diabetic hyperglyaemia	27944	2093	7.49%	6.73%	5.87%	11.28%	-213	-453	1060
Hypertension	35010	4845	13.84%	12.66%	13.21%		-412	-219	
Atrial Fibrillation	35010	734	2.10%	1.98%	2.02%	2.65%	-40	-26	194
Stroke and TIA	35010	526	1.50%	1.53%	1.61%		10	37	
Coronary Heart Disease	35010	908	2.59%	2.60%	2.65%		3	21	
Heart failure	35010	212	0.61%	0.69%	0.75%	1.42%	30	52	284
Left Ventricular Systolic Dysfunction	35010	126	0.36%	0.29%	0.30%		-25	-21	
Chronic Kidney Disease	27944	1160	4.15%	3.75%	3.21%		-113	-264	
Peripheral Arterial Disease	35010	163	0.47%	0.42%	0.44%		-17	-8	_
Cancer	35010	1195	3.41%	3.38%	3.35%		-10	-24	
Palliative care	35010	103	0.29%	0.33%	0.43%		14	47	

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.

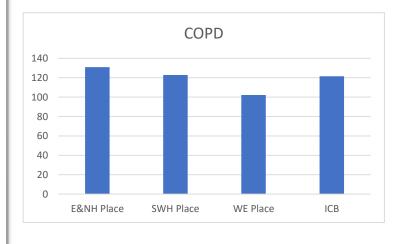
This table shows opportunities for further identification. It outlines the diagnoses to meet the place, ICB and estimated prevalence.

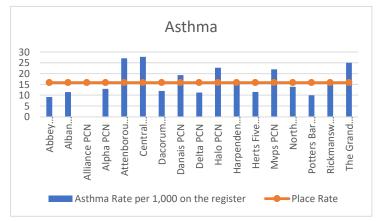
Within Ardens Manager there are case finding searches that can support PCN with identification.

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

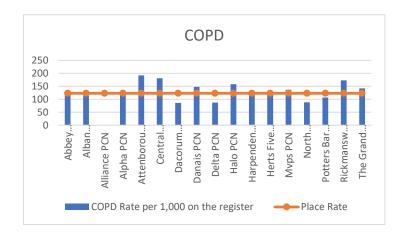














The charts on the left shows the Emergency Admissions Rates per 1,000 population on the disease register.

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.

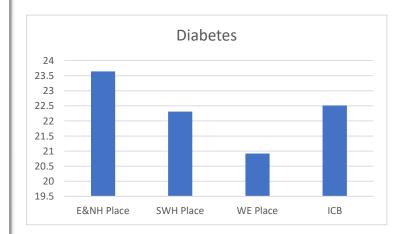
Rates may be high due to a number of factors which may include low identification.

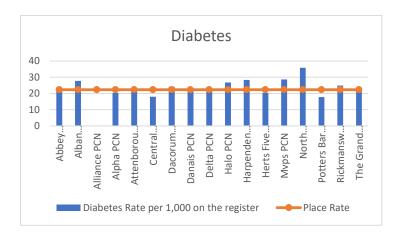
For Delta the data shows higher AF and Heart Failure rates which was identified as a theme within the ACS analysis.

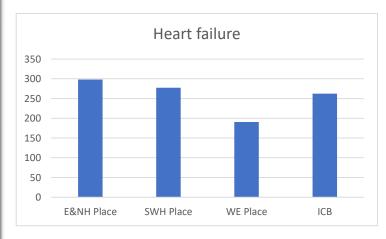
Source: HWE PHM Team, SUS data

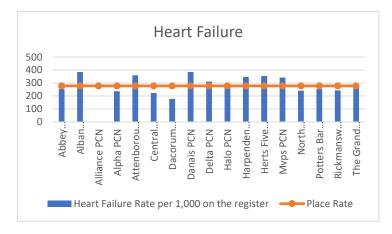
Emergency Admission Rates per 1,000 population on the Disease Register











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 🔻		Ethnic		Asian			Black			Mixed			Other			White			Unknown		
Complexity	Low	Middle	Low Complexity	Middle Complexity	High Complexity	Grand Total															
Overall Population Measure	s																				
Population	195	37	524	345	47	180	129	15	275	140	16	2,922	1,801	144	10,944	10,133	1,489	2,941	1,061	35	33,373
Age	30	40	27	44	58	27	40	46	15	35	47	24	44	55	30	51	67	32	46	57	39
Male %	50.8%	40.5%	46.9%	41.7%	42.6%	43.9%	41.9%	46.7%	50.5%	38.6%	43.8%	56.8%	49.4%	46.5%	52.3%	44.5%	47.1%	57.6%	53.0%	54.3%	50.0%
IMD	8.0	8.1	7.8	7.6	7.7	7.3	7.3	6.6	8.0	7.5	7.4	7.6	7.6	7.4	8.0	8.0	7.9	7.3	7.5	7.1	7.8
% BAME (where recorded)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	0%	0%	100%	100%	100%	28%
Multimorbidity (acute & chronic)	0.0	1.5	0.0	1.7	6.5	0.0	1.7	7.1	0.0	1.6	6.4	0.0	1.7	6.5	0.0	1.9	6.8	0.0	1.5	6.4	1.1
Finance and Activity Measu	res																				
Spend ▼ Total	£0.0M	£0.0M	£0.3M	£0.4M	£0.2M	£0.1M	£0.2M	£0.1M	£0.1M	£0.1M	£0.0M	£0.5M	£0.9M	£0.3M	£3.0M	£8.1M	£5.4M	£0.2M	£0.2M	£0.0M	£20.1M
PPPY - Total	£98	£349	£556	£1,134	£4,534	£537	£1,555	£7,525	£395	£1,035	£2,523	£172	£498	£1,939	£272	£797	£3,620	£59	£162	£658	£603
Acute Elective	£20	£96	£236	£440	£1,562	£157	£705	£770	£120	£451	£569	£37	£157	£470	£91	£332	£1,105	£5	£36	£29	£213
Acute Non-Elective	£2	£111	£224	£443	£2,403	£234	£585	£5,583	£190	£350	£1,320	£59	£157	£1,053	£97	£270	£1,964	£8	£18	£271	£242
GP Encounters	£75	£142	£94	£197	£366	£99	£205	£379	£79	£162	£334	£74	£155	£230	£81	£172	£336	£46	£98	£208	£125
Community	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Mental Health	£1	£0	£2	£54	£174	£46	£59	£793	£6	£71	£300	£1	£29	£181	£2	£21	£200	£0	£8	£151	£21
Social Care	£0	£0	£0	£0	£29	£0	£0	£0	£0	£0	£0	£0	£1	£4	£0	£2	£15	£0	£1	£0	
GP PPPY	12	23	16	34	64	18	36	61	13	29	55	13	27	41	14	30	58	9	19	42	
Beddays PPPY - Acute EM	0	0	0	1	4	1	1	23	0	2	1	0	0	2	0	0	4	0	0	1	0
Physical Health																					
Diabetes ▼	0.0%	27.0%	0.0%	44.6%	83.0%	0.0%	32.6%	53.3%	0.0%	24.3%	75.0%	0.0%	19.4%	54.9%	0.0%	23.2%	55.5%	0.0%	23.6%	57.1%	12.5%
COPD ▼	0.0%	0.0%	0.0%	1.2%	10.6%	0.0%	0.8%	33.3%	0.0%	0.0%	6.3%	0.0%	0.8%	17.4%	0.0%	1.6%	22.1%	0.0%	0.8%	20.0%	1.7%
Chronic Respiratory Dis ▼	0.0%	0.0%	0.0%	2.0%	12.8%	0.0%	3.1%	40.0%	0.0%	2.9%	6.3%	0.0%	1.2%	20.1%	0.0%	2.3%	25.8%	0.0%	1.0%	25.7%	2.1%
Hypertension ▼	0.0%	5.4%	0.0%	24.1%	70.2%	0.0%	27.1%	46.7%	0.0%	11.4%	50.0%	0.0%	20.7%	62.5%	0.0%	29.6%	75.5%	0.0%	27.0%	71.4%	15.2%
Obesity ▼	3.1%	2.7%	5.7%	11.6%	25.5%	5.6%	17.1%	26.7%	1.8%	13.6%	37.5%	4.0%	12.6%	32.6%	9.7%	25.7%	40.7%	3.3%	10.5%	25.7%	15.1%
Mental Health														· ·							
Anxiety/Phobias ▼	0.0%	13.5%	0.0%	12.2%	23.4%	0.0%	10.9%	53.3%	0.0%	23.6%	50.0%	0.0%	30.0%	54.9%	0.0%	25.8%	45.3%	0.0%	21.1%	48.6%	12.8%
Depression ▼	0.0%	27.0%	0.0%	14.5%	36.2%	0.0%	16.3%	46.7%	0.0%	22.9%	62.5%	0.0%	32.6%	58.3%	0.0%	28.4%	52.7%	0.0%	22.7%	62.9%	14.2%
Learning Disability ▼	0.0%	0.0%	0.0%	1.7%	21.3%	0.0%	0.0%	26.7%	0.0%	0.7%	37.5%	0.0%	0.8%	26.4%	0.0%	1.1%	15.0%	0.0%	0.9%	28.6%	1.3%
Dementia ▼	0.0%	2.7%	0.0%	0.6%	27.7%	0.0%	2.3%	33.3%	0.0%	0.0%	37.5%	0.0%	0.6%	31.9%	0.0%	1.0%	25.1%	0.0%	0.4%	40.0%	1.7%
Other Characteristics	0.070	2.170	0.070	0.070	21.170	0.070	2.570	33.370	0.070	0.070	37.370	0.070	0.070	31.370	0.070	1.070	23.170	0.070	0.470	40.070	1.770
Housebound (eFI) ▼	0.0%	0.0%	0.0%	0.3%	2.1%	0.0%	0.8%	0.0%	0.0%	0.0%	6.3%	0.0%	0.2%	0.0%	0.0%	0.3%	2.5%	0.0%	0.3%	5.7%	0.2%
Social Vulnerability (eFI) ▼	1.0%	5.4%	1.0%	2.9%	19.1%	2.8%	4.7%	26.7%	0.4%	0.0%	25.0%	0.0%	3.3%	14.6%	0.8%	4.7%	18.9%	0.4%	3.3%	11.4%	3.1%
History of Smoking (Tw ▼	11.3%	5.4%	1.0%	5.8%	6.4%	3.3%	4.7%	13.3%	4.4%	7.9%	18.8%	2.5%	11.9%	19.4%	3.5%	9.3%	11.6%	2.4%	8.1%	11.4%	6.2%
Not Fit for Work (In Year) ▼																					
	0.5%	0.0%	1.7%	9.9%	8.5%	4.4%	14.0%	0.0%	1.5%	7.9%	12.5%	2.3%	9.8%	2.8%	2.1%	6.3%	6.0%	1.4%	3.8%	5.7%	4.1%
On a Waiting List	3.1%	0.0%	5.5%	11.3%	21.3%	6.7%	9.3%	13.3%	4.0%	7.9%	25.0%	2.9%	5.9%	11.1%	4.3%	9.4%	17.9%	1.4%	3.9%	20.0%	6.4%

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 - L	iving With Illr	ness	3 -	Lower Comple	xity		4 - Advance	ed Disease &	Complexity		5 - EoL	, Frailty & De	ementia	
Life Course Subsegment	nt 🕶	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 Population Mea	asures							~.											
Population		12,569	1,020	888	2,926	4,315	1,517	324	4,246	2,365	1,378	328	70	322	399	373	89	244	33,373
Age		27	6	17	44	44	39	44	49	60	62	57	27	33	66	78	83	71	39
Male %		56.3%	38.7%	55.5%	50.2%	53.4%	42.0%	41.7%	44.8%	37.6%	41.4%	43.3%	52.9%	46.6%	54.9%	37.5%	31.5%	41.4%	50.0%
IMD		7.8	7.5	7.5	7.8	7.8	7.9	7.8	7.7	8.2	8.0	7.7	7.2	7.4	7.8	8.3	7.6	8.1	7.8
% BAME (where recorded	d)	36%	27%	41%	26%	27%	26%	30%	22%	16%	16%	15%	30%	23%	12%	10%	7%	12%	28%
Multimorbidity (acute & ch	ronic)	0.0	0.0	0.0	0.0	1.0	1.0	0.4	2.4	2.1	4.3	2.8	3.1	6.0	5.4	6.3	6.8	5.1	1.1
Finance and Activity N	Measur	es																	
Spend - Total		£1.0M	£0.6M	£1.1M	£1.2M	£1.7M	£0.5M	£0.1M	£2.9M	£2.2M	£2.6M	£0.5M	£0.1M	£0.7M	£1.4M	£1.5M	£0.3M	£1.5M	£20.1N
PPPY - To	Total	£76	£566	£1,295	£415	£405	£361	£417	£675	£939	£1,893	£1,566	£2,136	£2,148	£3,395	£4,127	£3,878	£6,134	£603
Acute Elective		£17	£73	£547	£151	£155	£114	£182	£281	£435	£861	£443	£459	£238	£1,248	£1,017	£142	£1,862	£213
Acute Non-Elective		£4	£381	£607	£139	£124	£115	£101	£210	£290	£763	£823	£539	£495	£1,703	£2,601	£3,137	£3,832	£242
GP Encounters		£54	£112	£134	£121	£123	£127	£130	£170	£209	£248	£230	£243	£240	£299	£412	£339	£381	£125
Community		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£
Mental Health		£2	£1	£8	£3	£3	£4	£3	£14	£4	£18	£17	£729	£1,155	£145	£89	£254	£59	£2'
Social Care		£0	£0	£0	£0	£0	£0			£0	£3	£53	£167	£20	£2	£8	£6	£0	£,
GP PPPY		10	19	23	21	21	22	22	30	36	44	38		42	51	76	56	68	22
Beddays PPPY - Acute EN	М	0	1	0	0	0	0	0	0	0	2	1	1	1	4	4	9	8	0
Physical Health																			
Diabetes	*	0.0%	0.0%	0.0%	0.0%	19.7%	0.0%	8.0%	29.3%	31.2%	41.0%	32.0%	15.7%	36.6%	39.1%	59.8%	44.9%	43.4%	12.5%
COPD	•	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0%	1.1%	6.8%	4.3%	1.4%	1.2%	54.4%	20.4%	7.9%	16.0%	1.7%
Chronic Respiratory Dis	. •	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.3%	2.9%	1.8%	8.9%	5.2%	2.9%	2.2%	60.4%	23.9%	9.0%	20.5%	2.1%
Hypertension	•	0.0%	0.0%	0.0%	0.0%	20.3%	0.0%	5.9%	31.6%	42.8%	58.3%	40.2%	11.4%	31.7%	66.4%	81.2%	74.2%	64.3%	15.2%
Obesity	*	0.0%	0.0%	0.0%	42.5%	16.7%	13.7%	17.3%	23.1%	32.4%	34.4%	25.9%	18.6%	26.4%	34.1%	42.1%	28.1%	34.8%	15.1%
Mental Health																			-
Anxiety/Phobias	*	0.0%	0.0%	0.0%	0.0%	0.0%	43.5%	2.8%	45.5%	23.2%	36.9%	21.6%	31.4%	62.4%	26.8%	32.4%	34.8%	24.6%	12.8%
Depression	-	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	7.7%	49.5%	25.0%	40.6%	17.7%	30.0%	73.3%	30.8%	43.4%	48.3%	27.5%	14.2%
Learning Disability		0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.8%	0.2%	5.2%	18.9%	58.6%	45.3%	7.8%	45.4%	18.0%	2.0%	1.3%
Dementia Dementia	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.2%	12.6%	8.5%	10.0%	49.7%	8.3%	14.2%	100.0%	14.3%	1.7%
Other Characteristics		0.076	0.0 /6	0.0 /6	0.0 /0	0.0 /6	0.076	1. 0.076	0.076	0.076	12.070	0.5%	10.076	45.170	0.3 /6	14.2/0	100.0 %	14.370	1.77
Housebound (eFI)	-	0.00/	0.00/	0.00/	0.00/	0.00/	0.00/	1 0.00/	0.00/	0.00/	0.00/	0.20/	2.00/	0.00/	0.00/	7.00/	0.00/	7.40/	0.20
Social Vulnerability (eFI)	_	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.2%	2.9%	0.0%	0.0%	7.0%	9.0%	7.4%	0.2%
	•	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	65.4%	3.2%	6.6%	9.3%	26.8%	20.0%	16.1%	12.0%	33.5%	38.2%	21.3%	3.1%
History of Smoking (Tw	0.77	0.0%	0.0%	0.0%	18.6%	7.9%	8.2%	10.5%	11.8%	8.2%	9.1%	4.6%	10.0%	22.7%	16.0%	7.0%	5.6%	6.6%	6.2%
Not Fit for Work (In Year)	55%	0.0%	0.0%	0.0%	11.3%	4.4%	7.6%	5.2%	9.6%	6.1%	6.0%	1.8%	7.1%	13.4%	4.0%	2.7%	0.0%	4.5%	4.1%
On a Waiting List	*	2.6%	5.5%	8.9%	5.4%	5.7%	5.9%	6.2%	7.4%	13.7%	15.3%	14.6%	20.0%	12.4%	21.6%	21.2%	3.4%	15.2%	6.4%

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+		
Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	Low Complexity	Middle Complexity	High Complexity	Grand Total									
Overall Population Measure	s																	
Population	589	46		1,134	122	2,032	321	6	2,192	510	17	4,385	1,668	34	7,649	10,979	1,688	33,373
Age	17	35	23	23	36	21	33	30	27	37	29	31	43	41	32	51	66	39
Male %	53.5%	63.0%	0.0%	65.4%	69.7%	60.9%	65.4%	83.3%	65.0%	63.5%	70.6%	59.4%	56.4%	47.1%	43.4%	42.3%	46.7%	50.0%
IMD	7.8	7.6		7.8	8.1	7.7	7.9	7.3	7.8	8.0	7.7	7.8	7.9	7.5	7.8	7.9	7.8	7.8
% BAME (where recorded)	39%	21%		36%	36%	39%	32%	33%	36%	26%	63%	33%	26%	18%	31%	21%	13%	28%
Multimorbidity (acute & chronic)	0.0	1.4	5.0	0.0	1.2	0.0	1.3	7.0	0.0	1.3	7.2	0.0	1.4	6.7	0.0	1.9	6.7	1.1
Finance and Activity Measu	ıres				· · · · · · · · · · · · · · · · · · ·													
Spend • Total	£0.0M	£0.0M	£0.0M	£0.0M	£0.0M	£0.1M	£0.0M	£0.0M	£0.1M	£0.0M	£0.0M	£0.5M	£0.2M	£0.0M	£3.5M	£9.6M	£6.0M	£20.1M
PPPY - Total	£3	£0	£0	£11	£50	£25	£43	£100	£48	£59	£400	£115	£147	£287	£456	£875	£3,579	£603
Acute Elective	£3	£0	£0	£2	£44	£8	£18	£50	£13	£13	£0	£35	£45	£56	£145	£356	£1,070	£213
Acute Non-Elective	£0	£0	£0	£3	£0	£3	£4	£0	£8	£13	£63	£34	£44	£3	£169	£295	£1,957	£242
GP Encounters	£0	£0	£0	£6	£6	£15	£15	£16	£27	£28	£25	£45	£49	£51	£137	£196	£336	£125
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	£5		£0	£4	£312	£0	£9	£176	£5		£203	£21
Social Care	£0	£0		£0	£0	£0	£0			£1	£0	£0	£1	£0	£0		£14	£1
GP PPPY	0	0	0	1	1	3	3	3		5	5	8	8	8	24	34	58	22
Beddays PPPY - Acute EM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0
Physical Health																		
Diabetes ▼	0.0%	6.5%	0.0%	0.0%	9.8%	0.0%	10.0%	33.3%	0.0%	12.0%	17.6%	0.0%	17.4%	41.2%	0.0%	25.5%	57.2%	12.5%
COPD ▼	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.6%	0.0%	0.0%	0.6%	11.8%	0.0%	1.6%	21.8%	1.7%
Chronic Respiratory Dis ▼	0.0%	4.3%	0.0%	0.0%	0.8%	0.0%	1.2%	0.0%	0.0%	1.4%	11.8%	0.0%	1.0%	11.8%	0.0%	2.2%	25.4%	2.1%
Hypertension •	0.0%	4.3%	0.0%	0.0%	7.4%	0.0%	9.0%	50.0%	0.0%	10.6%	58.8%	0.0%	12.7%	61.8%	0.0%	31.8%	74.2%	15.2%
Obesity •	0.5%	10.9%	0.0%	0.7%	6.6%	1.2%	6.2%	33.3%	4.2%	9.6%	11.8%	7.7%	12.2%	17.6%	11.3%	24.9%	39.9%	15.1%
Mental Health			h						•									
Anxiety/Phobias ▼	0.0%	17.4%	0.0%	0.0%	27.0%	0.0%	22.7%	66.7%	0.0%	22.2%	58.8%	0.0%	23.0%	52.9%	0.0%	26.1%	45.3%	12.8%
Depression ▼	0.0%	32.6%	100.0%	0.0%	21.3%	0.0%	16.8%	100.0%	0.0%	23.1%	76.5%	0.0%	24.5%	61.8%	0.0%	29.1%	52.3%	14.2%
Learning Disability •	0.0%	0.0%	100.0%	0.0%	0.8%	0.0%	0.9%	50.0%	0.0%	0.4%	47.1%	0.0%	1.0%	50.0%	0.0%	1.1%	15.6%	1.3%
Dementia ▼	0.0%	0.0%		0.0%	0.0%	0.0%	1.2%		0.0%	0.4%	64.7%	0.0%	0.4%	55.9%	0.0%	1.0%	24.9%	1.7%
Other Characteristics		2.3.0			2.270									22.2.3				
Housebound (eFI) ▼	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.3%	2.4%	0.2%
Social Vulnerability (eFI) 🔻	0.0%	4.3%	0.0%	0.3%	1.6%	0.3%	2.2%	16.7%	0.5%	1.4%	11.8%	0.6%	2.2%	8.8%	1.2%	4.9%	18.8%	3.1%
History of Smoking (Tw ▼	0.0%	0.0%	0.0%	1.1%	0.0%	1.1%	6.2%	16.7%	2.5%	2.9%	0.0%	2.8%	6.9%	14.7%	4.8%	10.3%	12.3%	6.2%
Not Fit for Work (In Year) ▼	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.2%	0.2%	0.0%	0.8%	1.1%	0.0%	4.0%	8.2%	6.0%	
			140 400 400			11.77.15.00.13.00												4.1%
On a Waiting List ▼	0.3%	0.0%	0.0%	0.3%	1.6%	1.0%	1.2%	0.0%	1.4%	0.4%	11.8%	1.7%	1.5%	0.0%	6.9%	10.3%	18.0%	6.4%

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 - He	ealthy			2 - Living V	Vith Illness			3 - Lower (Complexity		4 - Adv	anced Dise	ase & Com	plexity	5 -	EoL, Frailt	y & Demen	tia	TO DESCRIPTION OF THE PERSON O
Deprivation	·	Low Deprivation	Middle Deprivation	High Deprivatior	Not known	Low Deprivation	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivatior	Not known	Low Deprivation	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivatior	Not known	Grand Total
Overall Population Meas	sures														0.00							
Population		8,749	5,452	249	27	5,435	3,179	130	14	4,504	2,295	123	13	1,579	856	57		475	219	9		33,373
Age		26	25	24	20	44	42	42	41	54	49	51	38	60	54	48	54	76	77	66	55	39
Male %		54.2%	56.4%	53.4%	55.6%	50.9%	49.6%	49.2%	57.1%	42.9%	40.7%	47.2%	38.5%	44.5%	45.1%	52.6%	20.0%	40.6%	31.5%	55.6%	66.7%	50.0%
IMD		9.0	5.9	2.5		9.1	6.0	2.5		9.1	5.9	2.5		9.0	5.9	2.6		9.0	6.4	2.8		7.8
% BAME (where recorded)		30%	43%	54%	50%	23%	33%	30%	31%	17%	27%	25%	25%	14%	21%	24%	0%	9%	13%	33%	0%	28%
Multimorbidity (acute & chro	onic)	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.4	2.2	2.3	2.2	2.2	4.3	4.7	4.5	2.2	5.7	6.3	5.1	5.3	1.1
Finance and Activity M	easure	s																				
Spend - Total		£1.5M	£1.1M	£0.0M	£0.0M	£2.1M	£1.4M	£0.1M	£0.0M	£3.4M	£1.8M	£0.1M	£0.0M	£3.1M	£2.1M	£0.1M	£0.0M	£2.2M	£1.1M	£0.0M	£0.0M	£20.1M
PPPY - To	otal	£174	£208	£132	£92	£378	£439	£449	£348	£746	£770	£678	£894	£1,977	£2,465	£1,524	£152	£4,681	£5,062	£3,176	£6,906	£603
Acute Elective		£43	£71	£45	£16	£145	£148	£176	£39	£329	£332	£280	£180	£746	£847	£639	£22	£1,327	£914	£829	£2,801	£213
Acute Non-Elective		£66	£72	£40	£24	£108	£161	£149	£186	£227	£243	£167	£522	£803	£1,062	£352	£0	£2,868	£3,637	£1,535	£3,907	£242
GP Encounters		£63	£64	£47	£52	£121	£127	£121	£122	£179	£184	£216	£192	£252	£255	£243	£110	£398	£384	£374	£198	£125
Community		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Mental Health		£3	£1	£0	£0	£3	£3	£3	£0	£10	£9	£15	£0	£166	£275	£256	£20	£84	£122	£411	£0	£21
Social Care		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£10	£26	£34	£0	£4	£5	£27	£0	£1
GP PPPY		11	12	9	9	20	23	22	24	30	33	40	35	43	46	45	27	70	72	71	56	22
Beddays PPPY - Acute EM		0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	.0	6	7	3	1	0
Physical Health																						
Diabetes	*	0.0%	0.0%	0.0%	0.0%	9.0%	10.7%	12.3%	7.1%	27.7%	31.2%	33.3%	7.7%	38.0%	38.8%	40.4%	0.0%	52.8%	50.7%	66.7%	33.3%	12.5%
COPD	*	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%	1.3%	5.7%	0.0%	12.9%	14.0%	12.3%	0.0%	14.5%	22.4%	33.3%	33.3%	1.7%
Chronic Respiratory Dis	•	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.0%	0.0%	2.6%	1.9%	7.3%	0.0%	15.2%	16.7%	12.3%	0.0%	18.7%	24.7%	33.3%	33.3%	2.1%
Hypertension	•	0.0%	0.0%	0.0%	0.0%	9.8%	10.3%	12.3%	0.0%	34.7%	33.1%	39.0%	15.4%	55.8%	47.5%	36.8%	20.0%	74.1%	75.8%	66.7%	66.7%	15.2%
Obesity		0.0%	0.0%	0.0%	0.0%	27.1%	20.8%	26.2%	35.7%	26.3%	25.1%	35.0%	7.7%	30.2%	34.1%	42.1%	0.0%	37.7%	37.9%	33.3%	66.7%	15.1%
Mental Health				0.0.0	0.070		20.0.0													55.5.75		101111
Anxiety/Phobias	*	0.0%	0.0%	0.0%	0.0%	8.6%	5.8%	6.9%	7.1%	34.8%	38.4%	31.7%	46.2%	35.1%	38.6%	42.1%	20.0%	30.5%	29.2%	22.2%	33.3%	12.8%
Depression	v	0.0%	0.0%	0.0%	0.0%	8.0%	9.9%	9.2%	0.0%	35.6%	46.0%	40.7%	61.5%	37.0%	44.7%	49.1%	40.0%	37.9%	40.6%	22.2%	33.3%	14.2%
Learning Disability		0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.5%	0.8%	0.0%	0.0%	10.6%	19.7%	26.3%	0.0%	4.4%	6.8%	11.1%	33.3%	1.3%
Dementia Disability		0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	14.0%	19.6%	22.8%	0.0%	19.6%	37.0%	22.2%	33.3%	1.7%
Other Characteristics		0.076	0.070	0.076	0.076	0.078	0.076	0.076	0.070	0.076	0.070	0.076	0.070	14.070	13.070	22.070	0.070	13.070	37.070	22.270	33.370	1.7 /0
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%	0.9%	1.8%	0.0%	0.0%	5.3%	11.4%	11.1%	33.3%	0.2%
Social Vulnerability (eFI)		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.8%	7.9%	13.8%	0.0%	11.8%	15.9%	10.5%	20.0%	28.2%	34.2%	22.2%	0.0%	3.1%
History of Smoking (Tw		0.0%	0.0%	0.0%	0.0%	10.1%	13.9%	13.1%	14.3%	9.1%	13.0%	13.8%	15.4%	9.9%	14.0%	12.3%	20.0%	5.5%	8.7%	22.2%	0.0%	6.2%
Not Fit for Work (In Year)	-					2.71.4.71.11.4.																
		0.0%	0.0%	0.0%	0.0%	6.0%	9.2%	10.8%	7.1%	6.4%	11.5%	13.0%	7.7%	4.7%	8.3%	12.3%	0.0%	2.9%	2.3%	11.1%	33.3%	4.1%
On a Waiting List	*	2.9%	3.6%	2.8%	7.4%	5.4%	6.0%	7.7%	7.1%	9.5%	9.5%	9.8%	7.7%	16.1%	15.5%	19.3%	0.0%	18.1%	13.7%	11.1%	66.7%	6.4%

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	*		Archway	Surgery			Haverfiel	d Surgery			Kings Lang	ley Surgery			Lincoln Hou	ise Surgery		
Deprivation	• D	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	Grand Total
Overall Population Mea	asures					7.1												
Population		1,959	549	32	15	2,509	801	27		11,737	2,353	34	35	4,537	8,298	475	8	33,37
Age		43	42	41	49	42	36	45	24	40	37	36	31	39	36	37	18	3:
Male %		50.1%	52.1%	50.0%	53.3%	50.5%	51.9%	55.6%	25.0%	49.6%	48.6%	50.0%	51.4%	50.0%	50.5%	50.9%	50.0%	50.0%
IMD		9.3	6.4	2.8		8.9	5.8	2.6		9.0	6.4	2.5		9.3	5.8	2.5		7.
% BAME (where recorded	i)	25%	29%	21%	33%	22%	25%	22%	0%	20%	25%	23%	32%	33%	39%	42%	71%	289
Multimorbidity (acute & ch	ronic)	1.2	1.3	1.2	2.1	1.1	0.9	1.0	0.8	1.1	1.1	2.0	0.7	1.0	1.1	1.1	0.4	1.
Finance and Activity N	Measures																	
Spend . Total		£1.0M	£0.4M	£0.0M	£0.0M	£1.6M	£0.4M	£0.0M	£0.0M	£7.2M	£1.4M	£0.0M	£0.0M	£2.5M	£5.3M	£0.2M	£0.0M	£20.1N
PPPY - T	Total	£501	£701	£242	£1,502	£644	£505	£409	£247	£610	£609	£1,425	£399	£556	£638	£469	£370	£60
Acute Elective		£198	£235	£16	£580	£212	£201	£125	£145	£223	£218	£358	£73	£201	£210	£202	£0	£21
Acute Non-Elective		£178	£333	£119	£781	£291	£186	£147	£0	£234	£223	£414	£217	£219	£278	£130	£303	£24
GP Encounters		£108	£108	£107	£140	£122	£105	£99	£102	£132	£134	£210	£108	£118	£123	£122	£54	£12
Community		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£
Mental Health		£16	£25	£0	£0	£18	£13	£37	£0	£20	£33	£421	£0	£16	£24	£11	£13	£2
Social Care		£1	£0	£0	£0	£2	£0	£0	£0	£0	£2	£23	£0	£2	£2	£3	£0	£
GP PPPY		31	31	31	39	17	15	14	15	20	21	33	17	22	23	23	10	22
Beddays PPPY - Acute EN	M	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	(
Physical Health																		
Diabetes	*	7.7%	7.8%	6.3%	6.7%	11.2%	7.6%	3.7%	0.0%	13.5%	12.3%	14.7%	5.7%	12.7%	13.3%	16.4%	0.0%	12.5%
COPD	¥	2.1%	2.4%	3.1%	6.7%	2.0%	1.2%	7.4%	0.0%	1.6%	1.4%	2.9%	0.0%	1.4%	1.7%	2.7%	0.0%	1.79
Chronic Respiratory Dis	. •	2.5%	3.5%	3.1%	6.7%	2.4%	1.5%	7.4%	0.0%	2.2%	1.9%	2.9%	0.0%	1.8%	2.0%	3.2%	0.0%	2.19
Hypertension		17.3%	16.8%	9.4%	26.7%	17.4%	12.4%	18.5%	0.0%	15.9%	12.0%	5.9%	2.9%	15.1%	14.3%	17.1%	0.0%	15.29
Obesity	*	15.1%	17.3%	28.1%	20.0%	10.6%	11.2%	14.8%		19.6%	19.5%	29.4%	14.3%	9.9%	11.7%	17.1%	0.0%	15.19
Mental Health																		
Anxiety/Phobias	Ψ.	16.0%	17.5%	15.6%	33.3%	12.9%	12.0%	7.4%	25.0%	14.4%	15.5%	35.3%	8.6%	8.8%	10.9%	11.6%	0.0%	12.89
Depression		16.4%	19.9%	21.9%	26.7%	12.0%	15.9%	7.4%	THE RESERVE OF THE PERSON NAMED IN	14.3%	16.7%	29.4%	17.1%	11.1%	14.6%	15.4%	12.5%	14.29
Learning Disability	*	0.7%	1.3%	3.1%	0.0%	1.6%	1.4%	3.7%		1.0%	1.5%	8.8%	2.9%	1.0%	1.8%	2.3%	0.0%	1.39
Dementia	-	0.9%	1.5%	3.1%	0.0%	2.2%	1.2%	3.7%	0.0%	1.5%	1.7%	5.9%	2.9%	1.5%	2.3%	2.3%	0.0%	1.79
Other Characteristics		0.570	1.570	5.170	0.070	2.270	1.270	5.170	0.070	1.570	1.770	3.376	2.570	1.570	2.570	2.570	0.070	1.7.7
Housebound (eFI)	*	0.2%	0.4%	0.0%	0.0%	0.3%	0.2%	0.0%	0.0%	0.2%	0.1%	0.0%	2.9%	0.1%	0.4%	0.2%	0.0%	0.29
Social Vulnerability (eFI)		4.0%	3.8%	3.1%	0.0%	3.1%	0.2%	7.4%		3.0%	2.8%	11.8%	2.9%	2.7%	3.6%	3.8%	0.0%	3.19
History of Smoking (Tw		4.0 %	5.6%	3.1%	0.0%	6.4%	7.0%	14.8%		5.5%	5.9%	11.8%	8.6%	5.6%	7.9%	7.2%	12.5%	6.29
Not Fit for Work (In Year)	•								The second second									
		3.2%	4.6%	3.1%	6.7%	2.9%	5.4%	7.4%	0.00.00.00	3.5%	4.8%	14.7%	2.9%	3.5%	5.5%	6.3%	12.5%	4.19
On a Waiting List	*	6.5%	6.4%	3.1%	20.0%	6.9%	6.6%	7.4%	25.0%	6.3%	7.3%	14.7%	5.7%	6.0%	6.2%	6.9%	0.0%	6.4%

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



people with this

condition

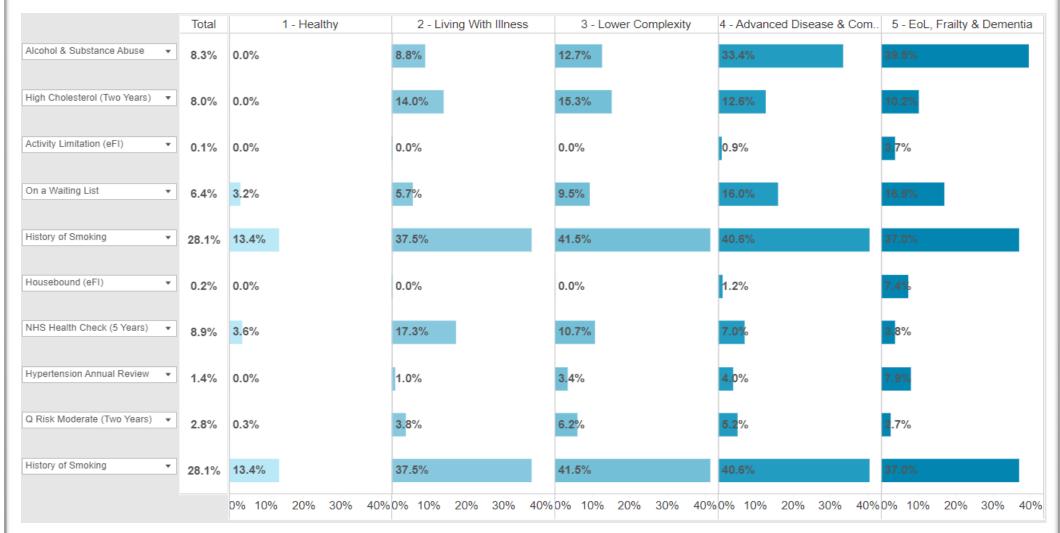
х%	also	have	1

						Other Condi	tions		_		_	
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		33%	9%	7%	61%	93%	18%	35%	43%	0%	3%	3%
Asthma	3%		6%	2%	22%	4%	4%	19%	21%	0%	0%	46%
COPD	6%	49%		11%	25%	10%	7%	62%	28%	1%	1%	0%
Heart Failure	7%	22%	17%		22%	14%	5%	93%	22%	2%	5%	0%
Anxiety	5%	23%	3%	2%		7%	6%	22%	48%	0%	1%	18%
Dementia	59%	29%	9%	8%	52%		14%	39%	44%	1%	3%	1%
Alcohol Abuse	8%	21%	5%	2%	33%	11%		23%	31%	0%	1%	18%
ABCD Prescription	2%	16%	7%	6%	18%	4%	3%		21%	0%	1%	21%
Anti-Depressive Prescription	4%	23%	4%	2%	49%	6%	6%	26%		0%	1%	21%
Activity Limitation (eFI)	2%	25%	17%	13%	38%	6%	2%	54%	42%		4%	13%
Housebound (eFI)	14%	22%	7%	23%	27%	25%	5%	68%	40%	2%		2%

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



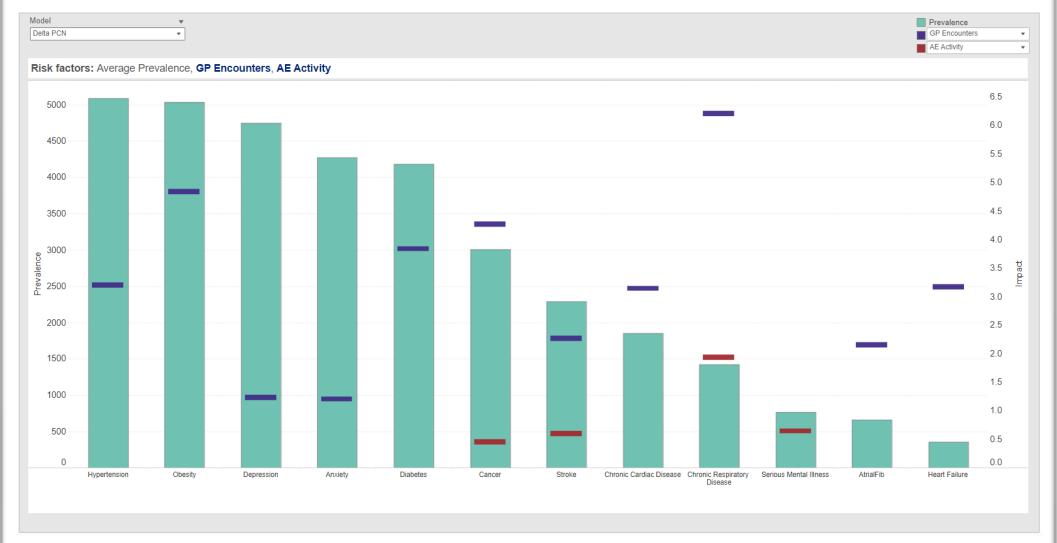


This chart gives a comparison across various selected risk conditions or characteristics, within the health segments of the PCN's population.

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	DELTA PCN	SURGERY	HAVERHELD SURGERY	KINGS LANGLEY SURGERY	ARCHWAY SURGERY
Women, aged 25-49, with a record of cervical screening in the last 3.5 yrs (denominator includes PCAs)	2020/21	73.3	76.3	73.5	79.3	78.5	77.1
Women, aged 50-64, with a record of cervical screening in the last 5.5 yrs (denominator includes PCAs)	2020/21	78.2	77.2	72.6	79.9	79.5	80.2
Persons, 25-49, attending cervical screening within target period (3.5 year coverage, %)	2020/21	73	75.8	72.5	79.2	78.6	76.6
Persons, 50-64, attending cervical screening within target period (5.5 year coverage, %)	2020/21	77	76.2	71.4	79.5	78.6	78.5
Persons, 50-70, screened for breast cancer in last 36 months (3 year coverage, %)	2020/21	63.9	70.8	68	75.6	72.4	67.6
Persons, 50-70, screened for breast cancer within 6 months of invitation (Uptake, %)	2020/21	61.3	51	34.7	42.9	35.3	73
Persons, 60-74, screened for bowel cancer within 6 months of invitation (Uptake, %)	2020/21	72.1	72.8	70.6	65.9	74.8	78.1
Persons, 60-74, screened for bowel cancer in last 30 months (2.5 year coverage, %)	2020/21	68.8	70.3	69.4	65.3	71.2	75.3
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Public Health - Mortality





	Period	Hertfordshire GCGs	NHS HERTFORDSHIRE AND WEST ESSEX ICB - 06N	DELTA PCN
Percentage of deaths that occur at home (All age)	2021	25.3	23.9	19.5
PYLL - Neoplasms	2021	505	498.3	571.5
PYLL - Diseases of the circulatory system	2021	737.5	690.5	530.9
PYLL - All Cause	2021	1537.7	1496.4	1145.9
Premature Mortality - Respiratory Disease	2021	19.2	19	
Premature Mortality - Liver Disease	2021	14.6	14.4	
Premature Mortality - Cardiovasular Disease	2021	53.8	51.4	44.7
Premature Mortality - Cancer	2021	98.5	97.1	127.4
Premature Mortality - All Cause	2021	269.6	262.3	261.2

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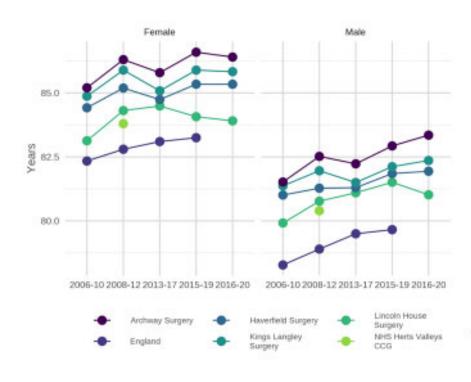


Public Health - Life Expectancy

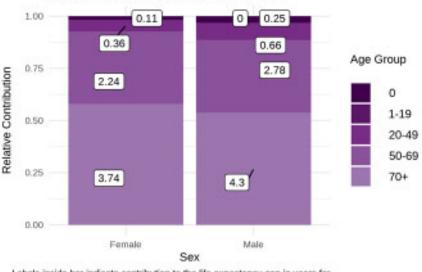




Life Expectancy



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



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 6.27 years and for males is 7.99 years.

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Working together for a healthier future