



Hertfordshire and  
West Essex Integrated  
Care System



Hertfordshire and  
West Essex  
Integrated Care Board

# Primary Care Networks Overview Pack

## DANAIS 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

Danaïs PCN has a similar population profile compared to England except in the age categories 5-14 and 35-44 which is higher and lower in the age categories 20-29. The majority of people live within the 5 least deprived deciles (6-10).

31.2% population have at least 1 Long Term Condition. 6.3% 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 20-49 and 60-64 which is higher and lower in age categories 70-84.

Wider determinants analysis from Public Health Evidence and Intelligence shows Danaïs is one of the most deprived PCNs within the ICB across most indicators, except Environment where it is one of the least deprived.

The spread of patients for Danaïs PCN indicates 8.48% 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 Danaïs PCN are Learning Disabilities, Hypertension, Stroke, Serious Mental Illness, Alzheimers as well as COPD, Asthma, Obesity, Dementia, Heart Disease, Heart Failure, Depression and MH.

Urgent & Emergency Care in 2022/23 for Danaïs PCN A&E Attendance rates per 1,000 population, is the highest of all PCNs for 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, Danaïs has a higher rate per 1,000 population, than the average.

When looking at the ACS conditions for Danaïs 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 and Lower Complexity segments, 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 COPD with the highest volume and cost, followed by Heart Failure and AF and Flutter. Ambulatory Care Sensitive conditions of note for people aged over 65 within the End of Life, Frailty & Dementia is highlighted as COPD, Heart Failure and AF and Flutter with the highest volume and cost.

14.8% of the general population in HWE ICB live within the 4 most deprived deciles, whilst 16.1% of the population in the EoL, severe frailty and severe dementia segment live within the 4 most deprived deciles. In Danaïs 37.9% of the population in the EoL, severe frailty and severe dementia segment live within the 4 most deprived deciles.

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

Within this segment we can see the presence of Chronic Cardiac Disease, Chronic Respiratory Disease, Heart Disease 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 lower than the ICB.

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

## National Tool View and Population Demographics and Projections

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

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

## Public Health Wider Determinants

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



# PCN Demographics - NHS England

## Total Population

DANAIS PCN

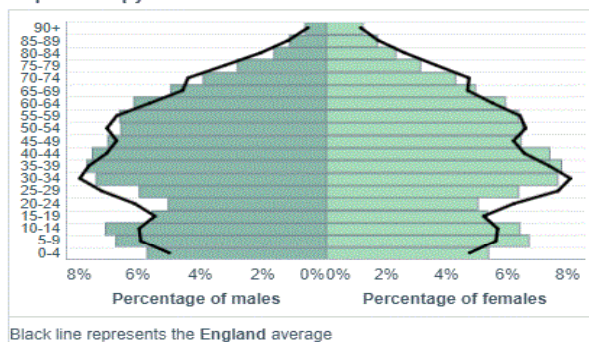
Snapshot as at: 30/06/2021

<b>Registered population</b>		<b>Demographics</b>		<b>Prevalence</b>		<b>Acute utilisation</b>		<b>Covid</b>	
% of total	100.0%	% White	72.7%	% with 1+ conditions	31.2%	% of annual activity (total 53,510)	100.0%	% one or more at risk conditions	19.7%
% of annual change	-0.4%	% BAME	12.3%	% with 5+ conditions	3.6%	% of annual cost (total £15M)	100.0%	% two or more at risk conditions	7.8%
		% IMD top	2.5%						
		% IMD bottom	12.9%						

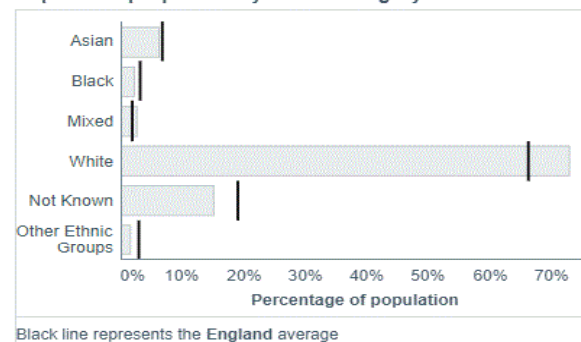
## Population demographics - Snapshot as at: 30/06/2021

Choose benchmark: England

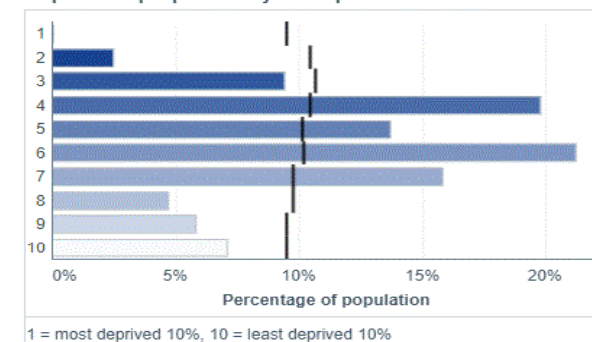
### Population pyramid



### Population proportion by ethnic category

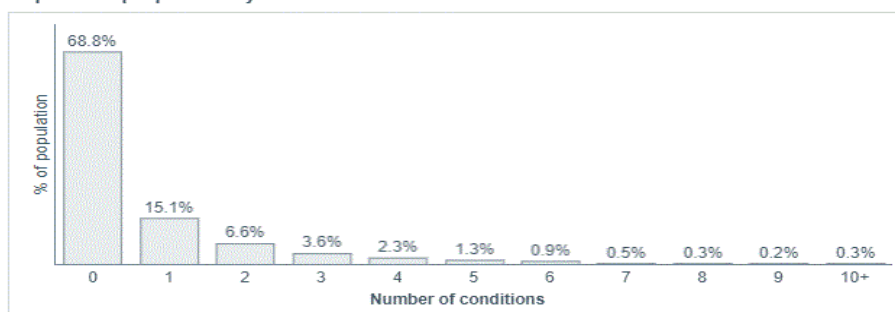


### Population proportion by IM Deprivation decile



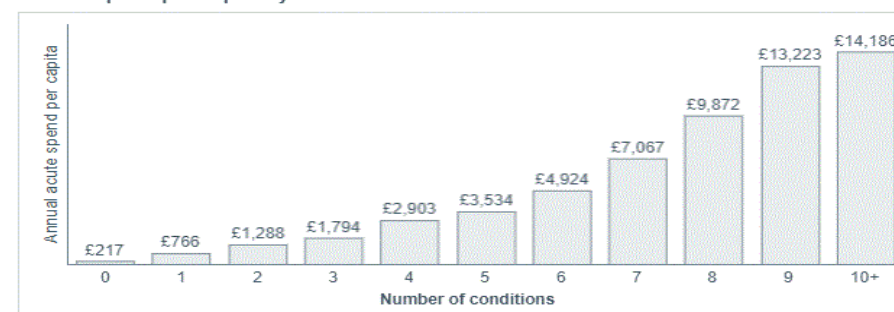
## Prevalence - Snapshot as at: 30/06/2021

### Population proportion by number of conditions



### Annual spend per capita by number of conditions

Financial Year: 2020/21



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

Danaï PCN has a similar population profile compared to England except in the age categories 5-14 and 35-44 which is higher and lower in the age categories 20-29. The majority of people live within the 5 least deprived deciles (6-10).



# PCN Demographics - NHS England

LTC  
DANAIS PCN

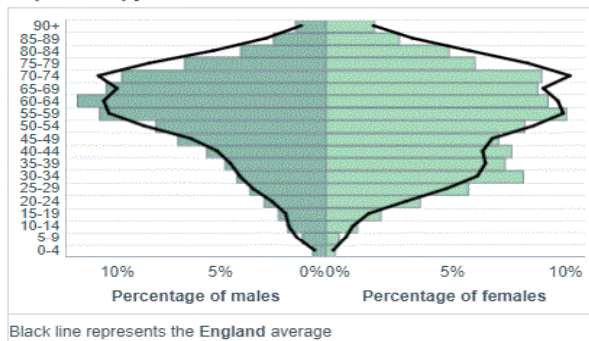
Snapshot as at: 30/06/2021

<b>Registered population</b>		<b>Demographics</b>		<b>Prevalence</b>		<b>Acute utilisation</b>		<b>Covid</b>	
% of total	27.3%	% White	87.0%	% IMD top	2.8%	% with 1+ conditions	100.0%	% one or more at risk conditions	55.0%
% of annual change	3.6%	% BAME	10.3%	% IMD bottom	12.8%	% with 5+ conditions	6.3%	% two or more at risk conditions	18.7%
						% of annual cost (total £7M)	44.6%		

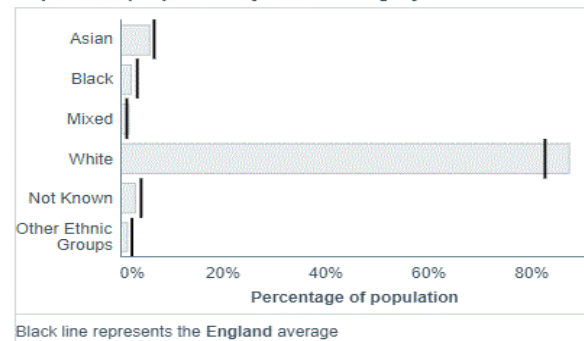
## Population demographics - Snapshot as at: 30/06/2021

Choose benchmark: England

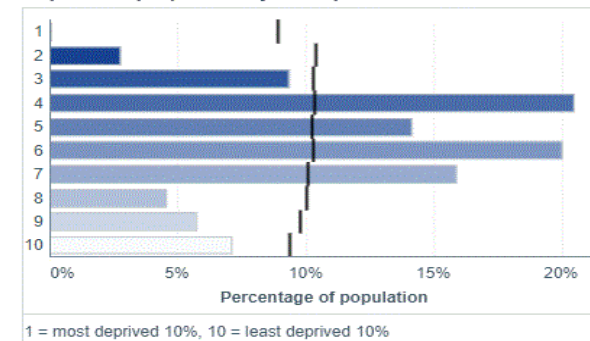
### Population pyramid



### Population proportion by ethnic category

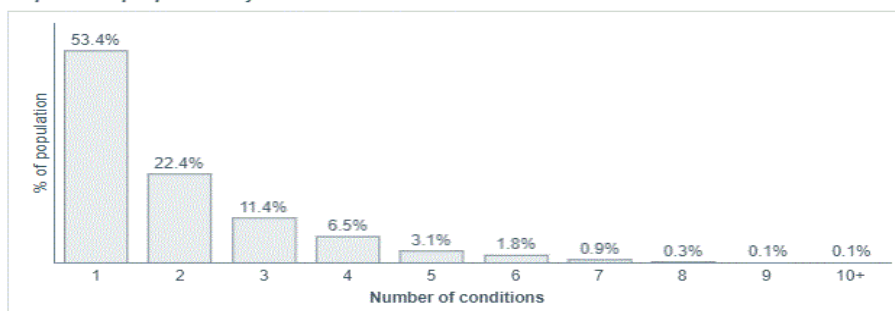


### Population proportion by IM Deprivation decile



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

### Population proportion by number of conditions



### Annual spend per capita by number of conditions

Financial Year: 2020/21



When compared with the overall PCN demographics on the previous page, those in the PCN whom have an LTC as defined by NHS England, are benchmarked against the English averages, the view for the PCN shows us that 31.2% population have at least 1 Long Term Condition. 6.3% 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 20-49 and 60-64 which is higher and lower in age categories 70-84.

# Practice Indicators - Triggers and Levels

Practice Indicators for		BENNETTS END SURGERY			EVEREST HOUSE SURGERY		
DANAIS PCN		Latest Score	Time Period	Trigger Level	Latest Score	Time Period	Trigger Level
Clinical Domain	Indicator Name						
Clinical Diagnosis	Detection rate Cancer	0.486	2020/21	No Trigger	0.395	2020/21	Level 1
Coronary heart disease	% AF anticoagulation therapy CHADS2-VASc score >1	97.7	2020/21	Positive	97.6	2020/21	Positive
	% CHD aged <=79 BP reading 140/90mmHg or less	57.6	2020/21	Level 1	63.8	2020/21	Level 1
	% CHD cholesterol 5 mmol/l or less	65.1	2021/22	No Trigger	75.2	2021/22	No Trigger
	% hypertension aged <=79 BP reading 140/90mmHg or less	43	2020/21	Level 1	53	2020/21	Level 1
Diabetes	% Diabetes aged >=40 years no CVD history without moderate or severe frailty treated with statin	80.8	2020/21	Level 1	77.4	2020/21	Level 1
	% Diabetes without moderate or severe frailty BP 140/80 mmHg or less	41	2020/21	Level 1	33.4	2020/21	Level 2
	% diabetes without moderate or severe frailty IFCC-HbA1c is 58 mmol/mol or less	47.3	2020/21	Level 2	40.5	2020/21	Level 2
Exception Rating	Overall Personalised Care Adjustment Rate	0.029	2020/21	No Trigger	0.073	2020/21	No Trigger
Medicines Management	% antibiotics Co-amoxiclav, Cephalosporins, Quinolones	9.1	2021/22 Q4	No Trigger	10.4	2021/22 Q4	Level 1
	% Naproxen and Ibuprofen	90	2021/22 Q4	No Trigger	82.1	2021/22 Q4	No Trigger
	Antibacterial Items/Star Pu	0.753	2021/22 Q4	Positive	0.881	2021/22 Q4	Positive
	Hypnotics ADQ/Star Pu	0.542	2021/22 Q4	No Trigger	0.514	2021/22 Q4	No Trigger
	Oral NSAIDS ADQs/STAR-PU	3.722	2021/22 Q4	No Trigger	3.087	2021/22 Q4	No Trigger
Mental Health	% first choice generic SSRIs	73.1	2021/22 Q4	No Trigger	70.3	2021/22 Q4	No Trigger
	% MH comprehensive care plan	77.3	2020/21	Level 1	96.2	2020/21	No Trigger
	% SMI alcohol record	96.7	2018/19	No Trigger	77.9	2020/21	Level 1
	% SMI BP record	72.3	2020/21	Level 1	87.7	2020/21	Level 1
	Dementia Face to Face review	75.9	2020/21	No Trigger	89.9	2020/21	No Trigger
	Select antidepressants ADQs/STARPU	1.773	2021/22 Q4	No Trigger	1.857	2021/22 Q4	No Trigger
Patient Experience	Confidence and trust in healthcare professional	95.6	2020/21	No Trigger	98.4	2020/21	No Trigger
	Frequency seeing preferred GP	36	2020/21	No Trigger	68.6	2020/21	No Trigger
	Healthcare professional treating with care and concern	88.5	2020/21	No Trigger	92.2	2020/21	No Trigger
	Overall experience of your GP practice	77	2020/21	No Trigger	90.3	2020/21	No Trigger
	Satisfaction with appointment times	53.5	2020/21	No Trigger	81.6	2020/21	No Trigger
Public Health	% Child Imms DTaP/IPV/Hib/HepB (age 1 year)	89.6	2020/21	Level 1	94.1	2020/21	Level 1
	% Child Imms Hib/MenC booster	85.2	2020/21	Level 1	96.7	2020/21	No Trigger
	% Child Imms MMR (Age 2 yrs)	85.7	2020/21	Level 1	93.9	2020/21	Level 1
	% Child Imms PCV Booster	85.2	2020/21	Level 1	95.8	2020/21	No Trigger
	Cervical Screening	79.1	2021/22 Q4	Level 1	73.8	2021/22 Q4	Level 1
Respiratory	% Asthma review in last 6 mths	37.5	2020/21	Level 1	5.8	2020/21	Level 1
	% Asthma spirometry and one other objective test	0	2020/21	Level 2	0	2020/21	Level 2
	% COPD with review in last 12 mths	56.7	2020/21	Level 1	90.4	2020/21	No Trigger
	% LTC patients who smoke	15.8	2020/21	No Trigger	14	2020/21	No Trigger
	% LTC Smoker offer support	91.8	2020/21	Level 1	97.1	2020/21	No Trigger
	% Smoking patients over 15 recorded	70.7	2021/22	No Trigger	64.4	2021/22	No Trigger
	% Smoking status recorded	88.4	2020/21	Level 1	91.4	2020/21	No Trigger
	% w. MRC dyspnoea score >=3 w. offer of referral to pulm. rehab. Clinic	90.8	2020/21	No Trigger	91.7	2020/21	No Trigger

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

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



## Wider Determinants



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

In Danais PCN an estimated:

- 16% of children live in poverty.
- 12.6% of older people live in poverty.
- 12.5% of households live in fuel poverty.
- 7.8% of households are overcrowded.
- 31.5% of people aged 65 and over live alone.
- 0.9% of people cannot speak English well.
- 4.8% of working age people are claiming out of work benefits.
- 21.6% of children aged 4-5 and 35.1% of children aged 10-11 are overweight.

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Hertfordshire Public Health  
Evidence & Intelligence  
Epidemiology



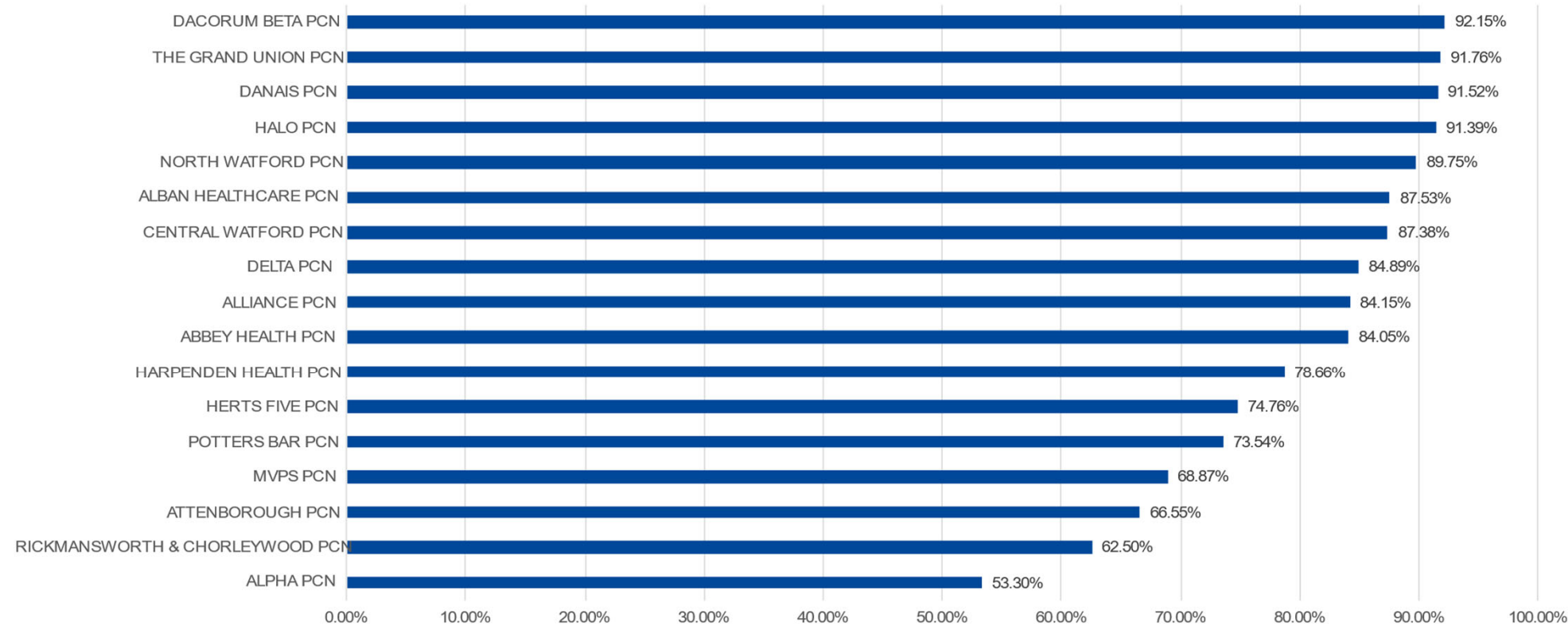
The above provides a summary of the wider determinants of health for Danais.

Wider determinants analysis from Public Health Evidence and Intelligence shows Danais is one of the most deprived PCNs within the ICB across most indicators, except Environment where it is one of the least deprived.



## SPREAD OF PATIENTS ACROSS ENGLAND CONT.

Percent of Herts Valley patients within Hertfordshire and West Essex boundary

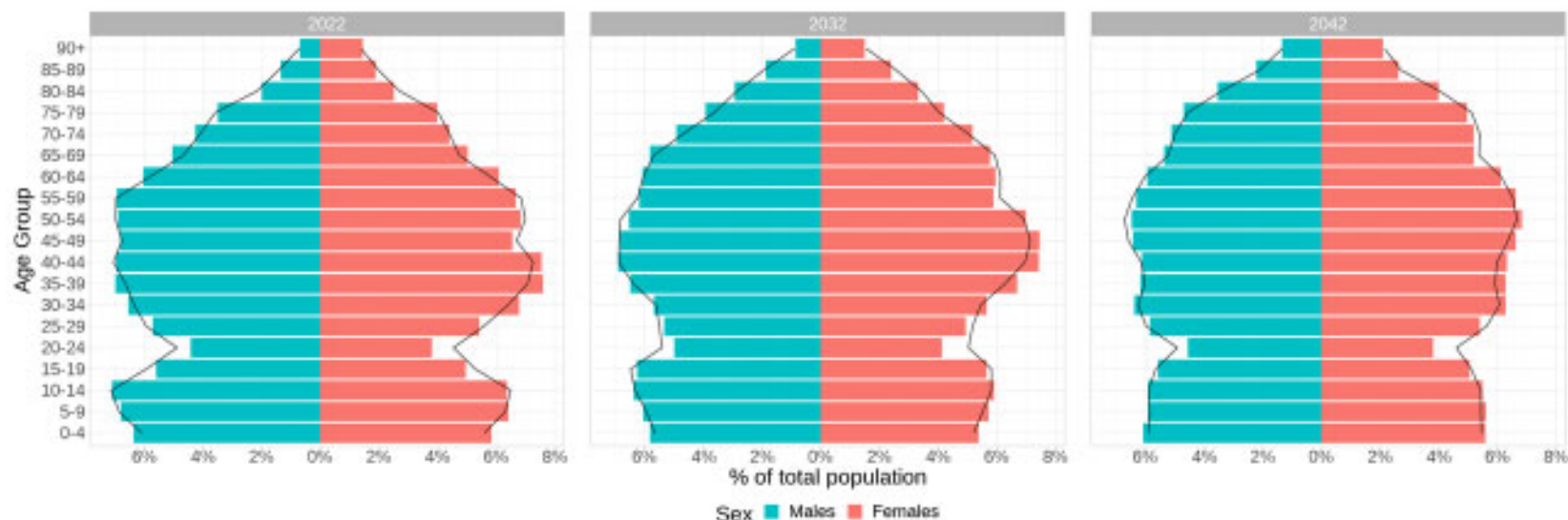


This chart shows the proportion of the registered population living within the ICB geographical boundary.

The spread of patients for Danais PCN indicates 8.48% of the population are not located within the Hertfordshire & West Essex boundaries; this means that this population may be accessing services outside of the ICB and the impact of coterminous alignment with neighbouring ICBs must be taken into account for this population by the PCN.



## Projection Pyramids



Age Band	2022 Projection	2032 Projection	2042 Projection
Under 5	9,581	9,060	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	5,358	6,853

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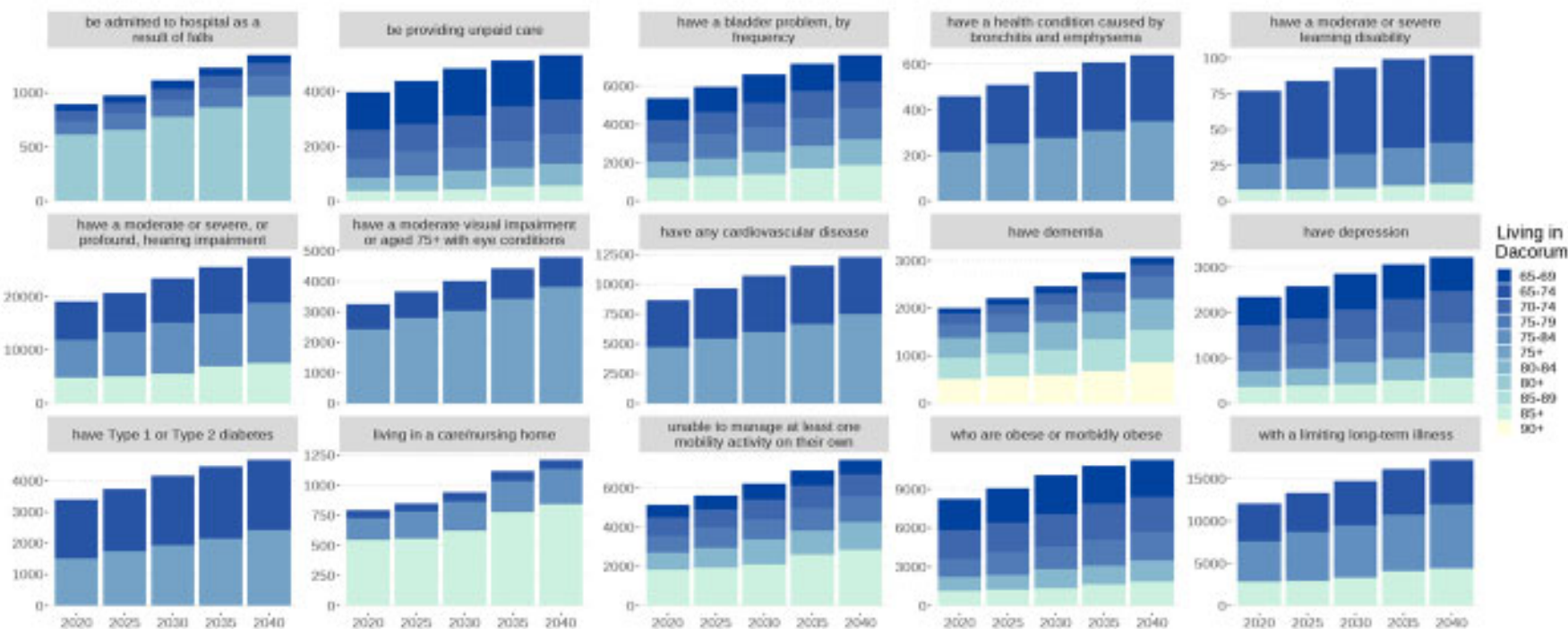
Hertfordshire Public Health  
Evidence & Intelligence  
Epidemiology



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.



## People aged 65+ projected to...



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

**Optum**

HWE

Segment & Outcomes  
Framework Documentation

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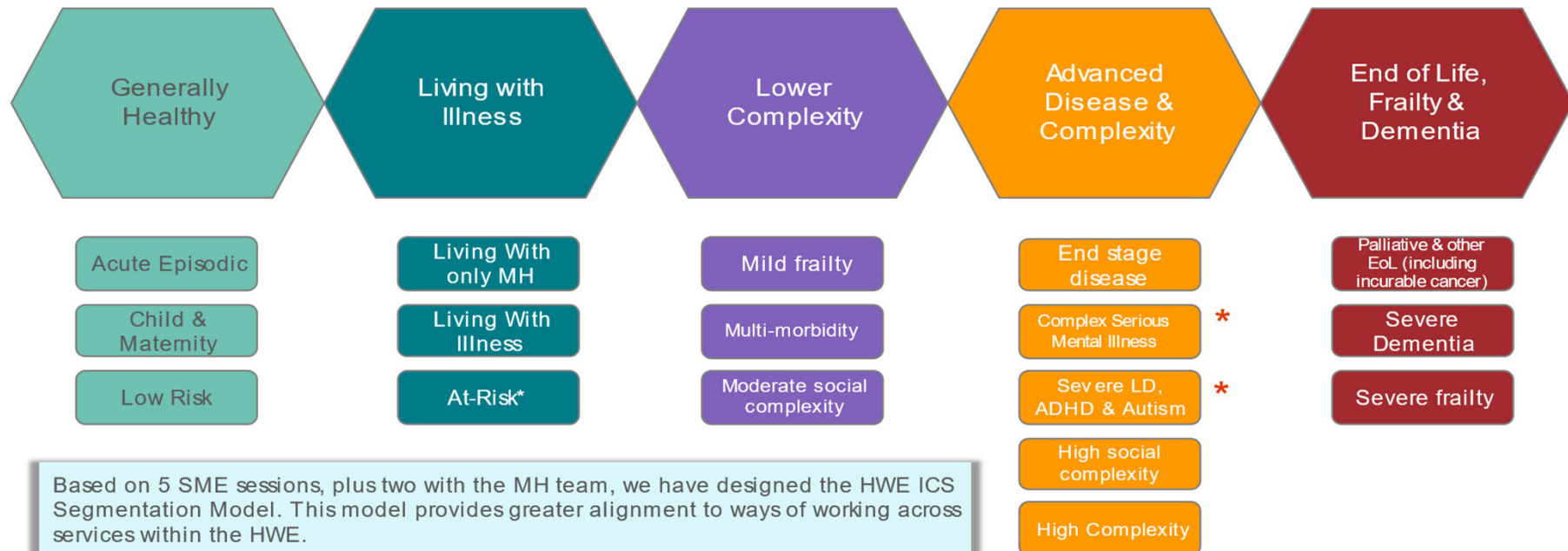
# PHM Segment Model - Overview

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

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

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

## Segmentation model – third iteration



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

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

\* awaiting finalisation of methodology



# PHM Segment Model - Overview

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

Alongside the segmentation logic an outcomes framework was developed.

## Whole Population Outcomes

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

### "Generally healthy"

#### Who is in this group?

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

#### Social & Clinical Outcomes

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

### Living with Illness

#### Who is in this group?

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

#### Social & Clinical Outcomes

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

### Lower Complexity

#### Who is in this group?

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

#### Social & Clinical Outcomes

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

### Advanced Disease & Complexity

#### Who is in this group?

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

#### Social & Clinical Outcomes

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

### End of Life, Frailty & Dementia

#### Who is in this group?

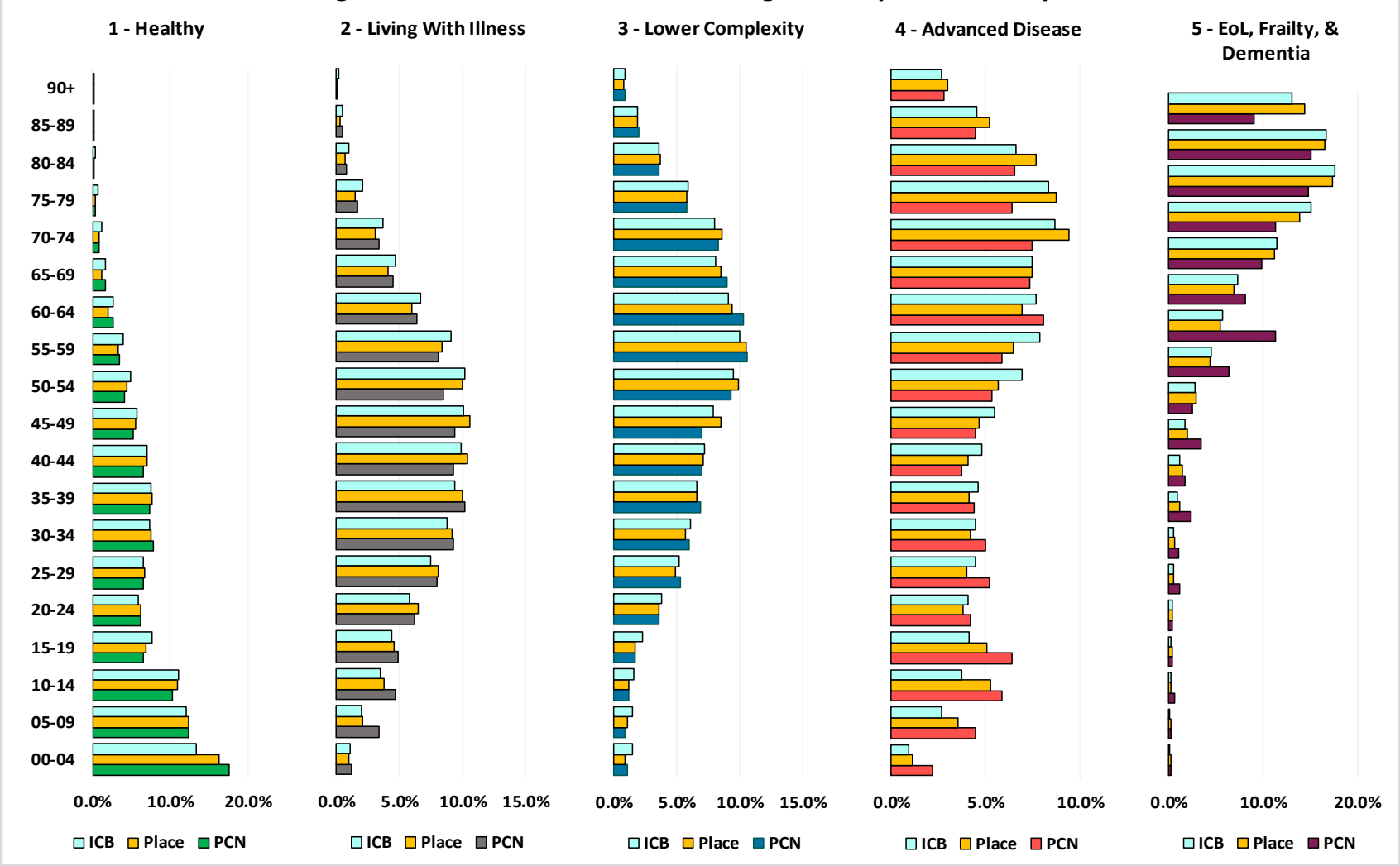
- End of Life, frailty and dementia is the first segment in the logic and is the first set of criteria on which people are assessed. The segment includes: people who are identified as being in their last year of life, or on the palliative disease register as well as people with incurable cancer. This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

#### Social & Clinical Outcomes

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

# Age Profile and Health Segment

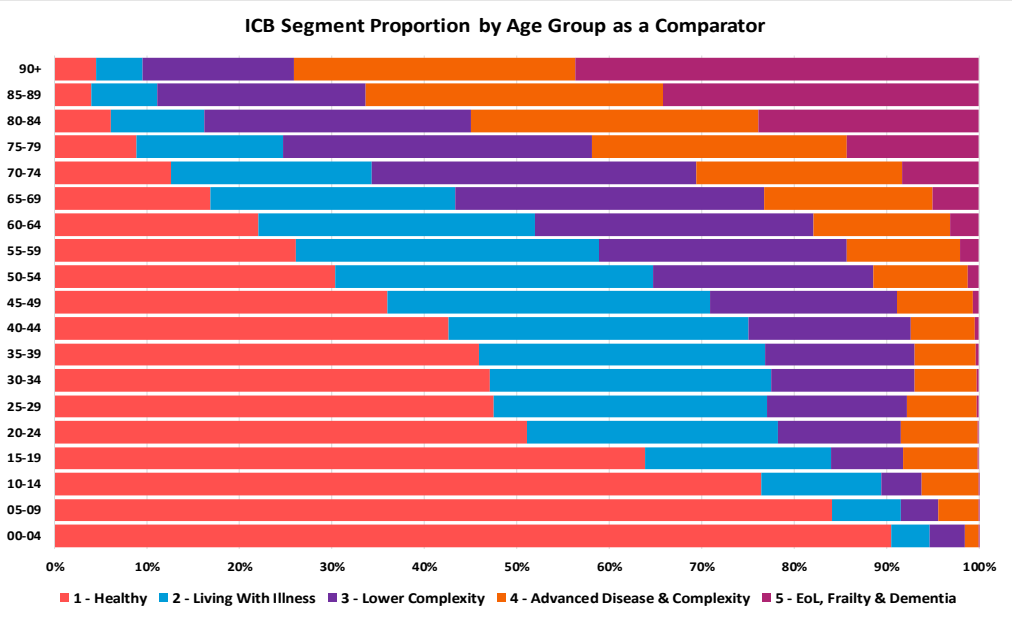
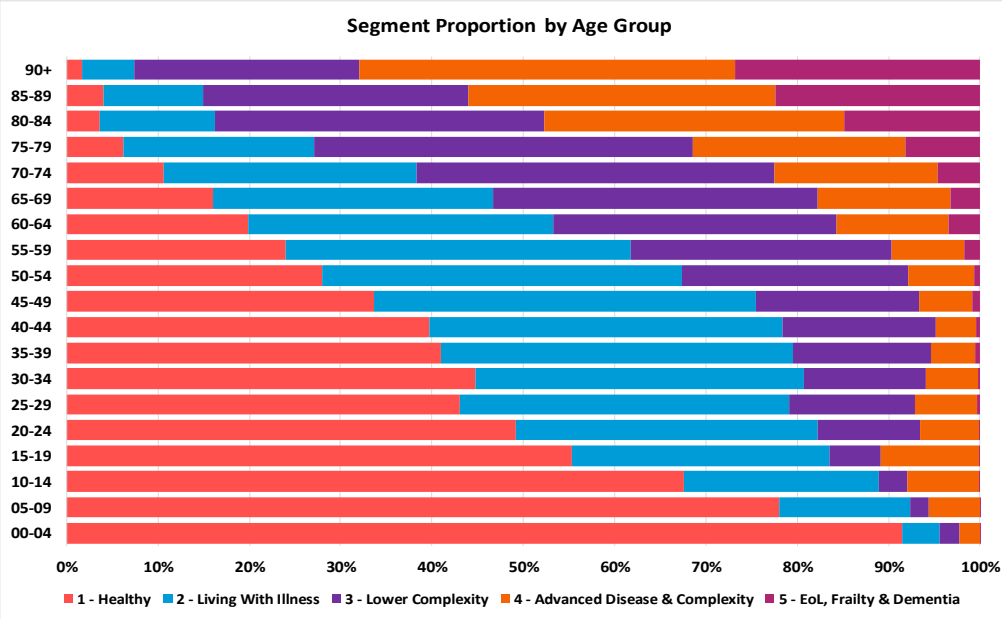
Age Profile of PCN, Place, and ICB Segment Population Comparison



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

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

# Demographic Breakdowns - Segment & Deprivation Quintiles

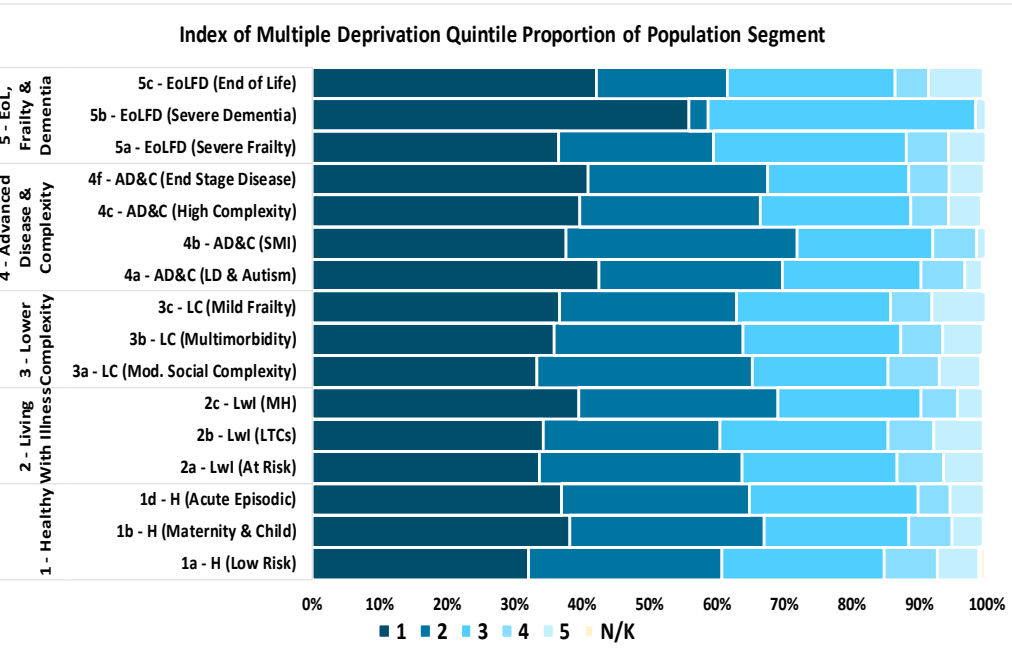


The ICB Health Segments here are broken down by total population and 5 year age groups; as expected with age the proportion of people within the healthy segment decreases.

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

Overall Danais 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.



# Major Conditions Comparison - Per 1,000 Registered

PCN NAME	COPD	Obesity	Asthma	Diabetes	Dementia	Cancer	Learning Disabilities	Hypertension	Stroke	Chronic Kidney Disease	Heart Disease	Heart Failure	AtrialFib	Chronic Cardiac Disease	Depression	MH	Anxiety	Serious Mental Illness	Alzheimers
ABBEY HEALTH	16.94	91.79	134.57	138.01	16.06	35.32	15.82	119.23	33.72	10.05	35.88	10.65	11.77	57.71	121.19	171.41	86.11	25.15	10.73
ALBAN HEALTHCARE	16.78	79.37	154.97	90.13	16.99	53.76	14.22	149.53	34.73	24.16	39.98	10.97	17.65	50.69	127.50	205.23	111.71	23.36	13.08
ALLIANCE	19.90	114.36	123.67	105.84	15.86	29.28	17.82	155.51	31.61	9.04	39.00	10.29	9.50	62.66	114.55	160.93	87.83	25.81	10.21
ALPHA	16.29	121.01	139.73	97.63	14.00	55.48	10.91	161.78	34.67	18.36	42.29	11.02	21.77	53.43	153.71	233.41	120.24	17.12	9.22
ATTENBOROUGH	18.14	113.20	126.85	105.43	15.54	36.21	11.81	130.54	33.07	15.51	42.51	11.91	11.43	50.85	118.02	176.61	95.74	19.13	8.70
BROXBORNE 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 & BROXBORNE	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 Danaï PCN are Learning Disabilities, Hypertension, Stroke, Serious Mental Illness, Alzheimers as well as COPD, Asthma, Obesity, Dementia, Heart Disease, Heart Failure, Depression and MH.



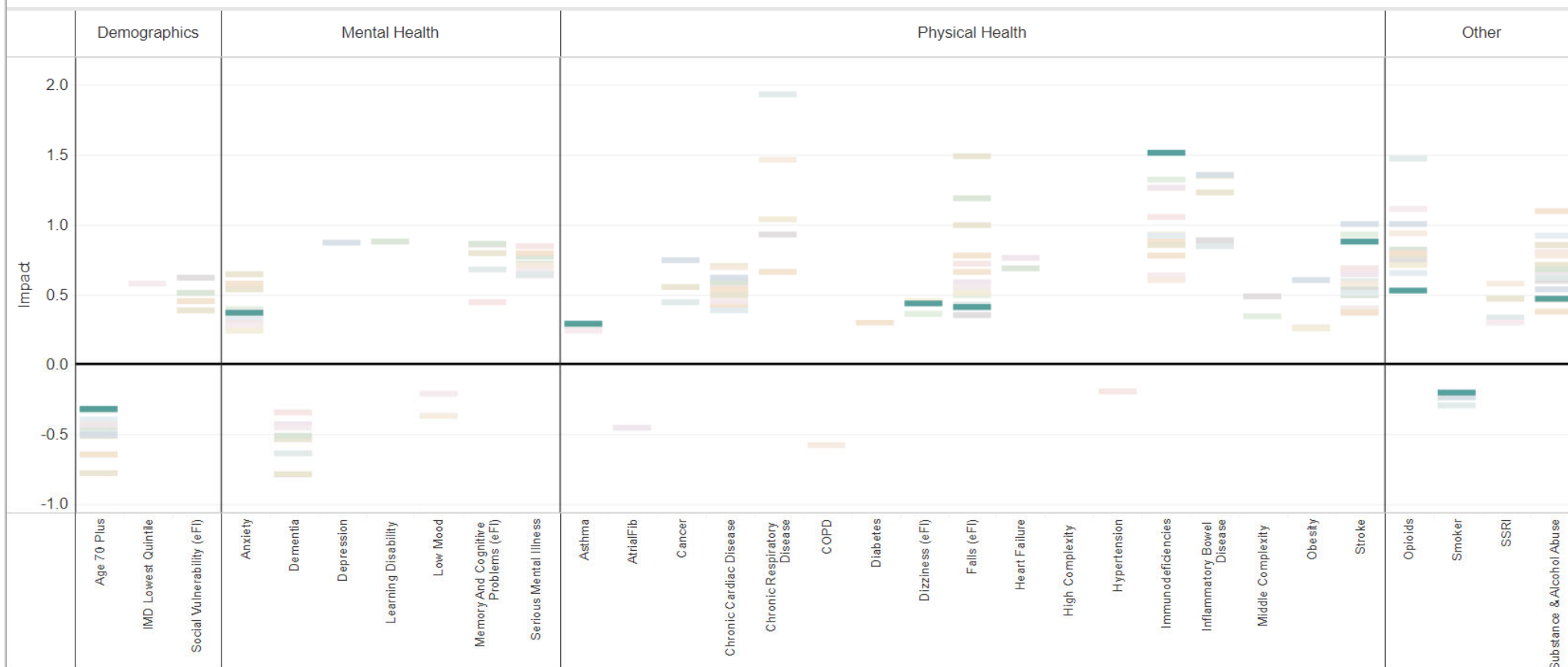
PCN NAME	ASD	Cerebral Palsy	Chronic Respiratory Disease	Cystic Fibrosis	Huntingtons Disease	Inflammatory Bowel Disease	Kidney Transplant	Metastatic Cancer	Multiple Sclerosis	Muscular Dystrophy	Myasthenia Gravis	Osteoporosis	Other Neurological Conditions	Parkinsons Disease	Rheumatoid Arthritis	Lupus (SLE)	Sickle Cell Disease	Solid Organ Transplant	High BP
ABBEY HEALTH	14.98	1.20	20.95	0.40	0.04	9.37	2.04	2.48	1.56	0.52	0.28	14.46	1.20	2.08	7.53	0.92	0.44	1.48	25.51
ALBAN HEALTHCARE	13.61	1.20	22.10	0.77	0.23	11.13	2.30	3.02	1.73	0.30	0.33	24.28	1.10	2.77	8.39	1.43	0.28	1.34	31.80
ALLIANCE	17.30	1.66	25.28	1.73	0.04	10.85	2.45	3.01	1.13	0.19	0.15	10.55	1.06	2.60	9.01	1.24	1.70	1.09	30.03
ALPHA	11.10	0.64	21.64	0.66	0.13	10.97	2.67	2.41	2.46	0.36	0.30	20.86	1.30	3.14	9.41	1.22	0.17	1.39	35.30
ATTENBOROUGH	11.11	0.96	22.70	1.41	0.13	10.43	2.57	2.70	1.80	0.42	0.29	17.75	1.12	1.99	7.64	1.25	0.55	1.44	42.89
BROXBORNE 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 & BROXBORNE	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 and Sickle Cell Disease.



# PCN Benchmarking - A&E Activity

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



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

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

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

# PCN Benchmarking - Emergency Admissions

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



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

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

# Urgent and Emergency Care

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

## Overall aim

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

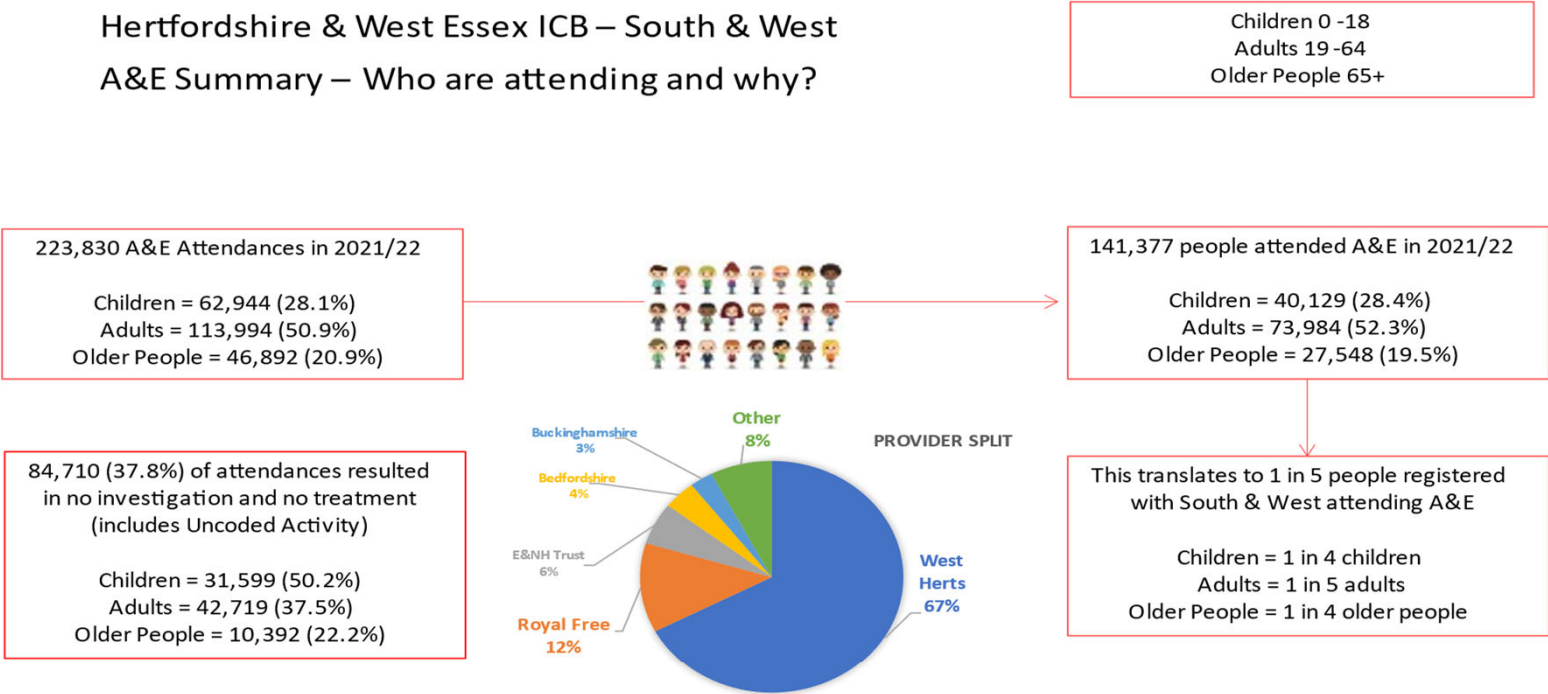
## Objectives

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

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



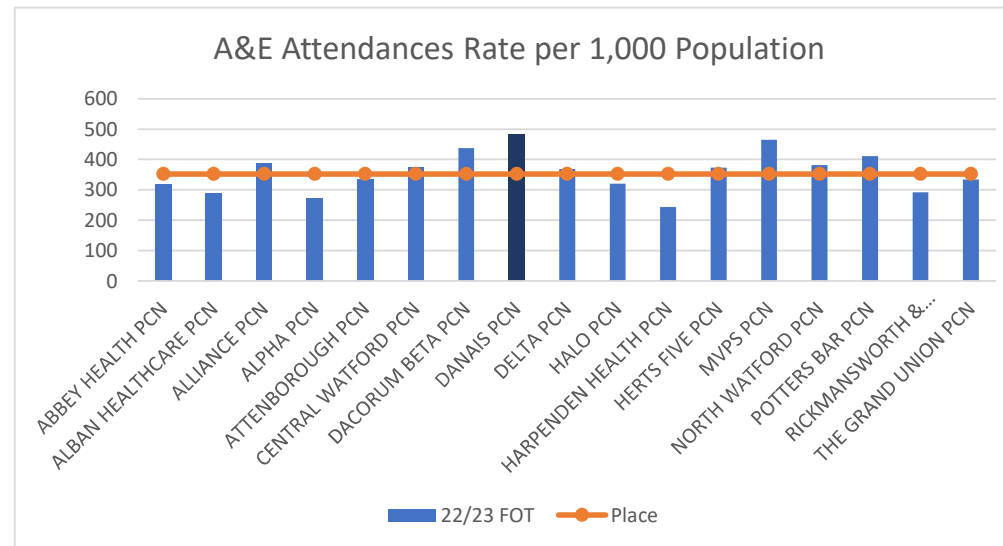
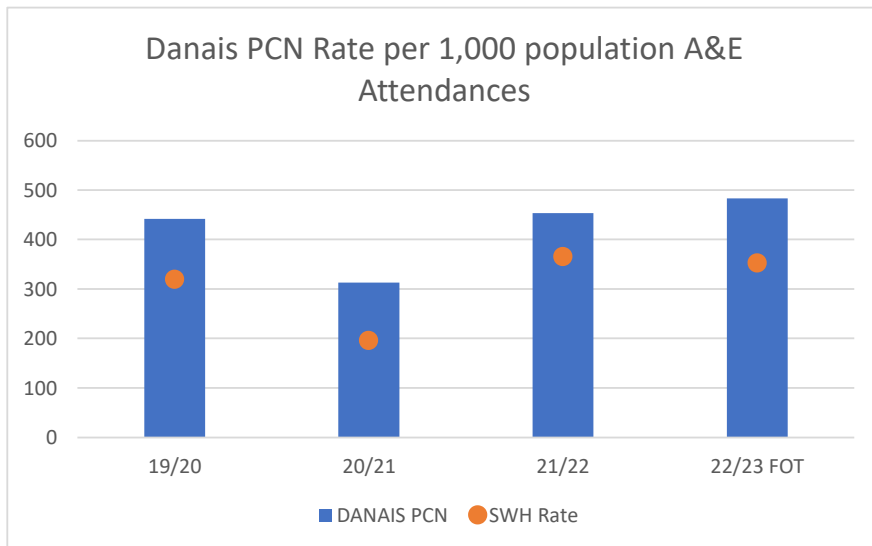
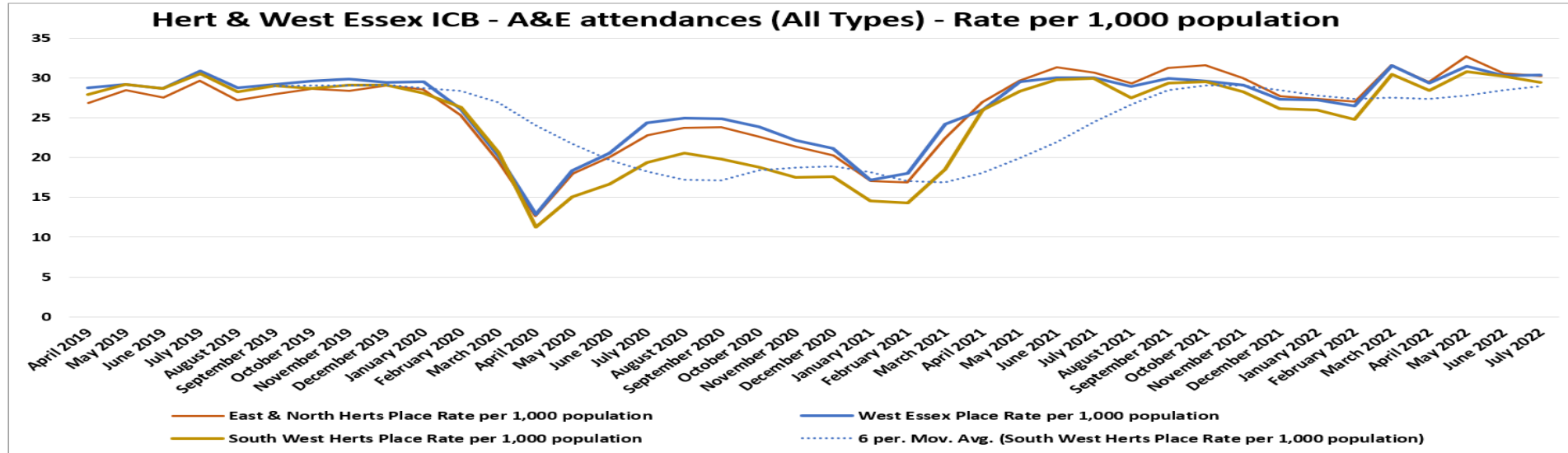
## Hertfordshire & West Essex ICB – South & West A&E Summary – Who are attending and why?



Hertfordshire and  
West Essex Integrated  
Care System



Source: SUS



**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 Danaïs PCN A&E Attendance rates per 1,000 population, is the highest of all PCNs for South West Herts place.**



# Unplanned Hospitalisation for Chronic Ambulatory Care Sensitive Conditions

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

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

Costed at tariff the value was approximately £42 million.

The table here shows the breakdown for Danais PCN.

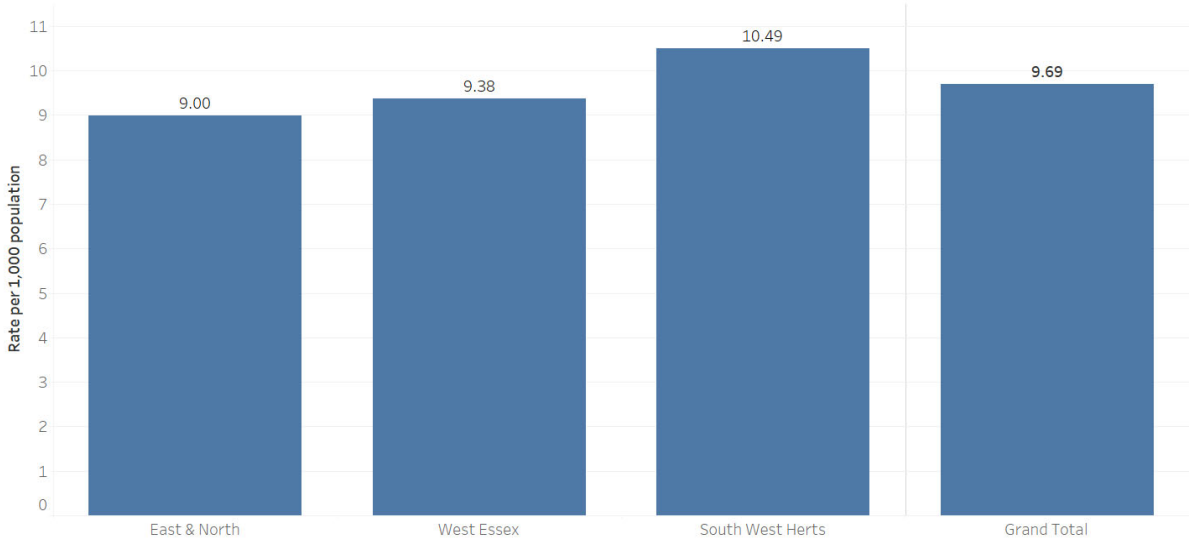
\* Average cost for Mental and Behavioural is not representative as non-PbR

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

Chronic ACS	Admissions	People	Average cost of admission	Tariff Total Payment National
CVD: AF and Flutter	71	63	£2,651	£188,220
CVD: Angina	15	13	£871	£13,061
CVD: Congestive Heart Failure	75	64	£4,750	£356,236
CVD: Hypertension	25	25	£792	£19,807
Diseases of the blood	27	23	£3,214	£86,771
Mental and Behavioural Disorders	3	3	£0	£0
Neurological Disorders	32	23	£1,865	£59,681
Nutritional, endocrine and metabolic	45	34	£2,234	£100,533
Respiratory: Asthma	34	28	£1,675	£56,951
Respiratory: COPD	77	57	£3,054	£235,145
Grand Total	404	311	£2,763	£1,116,405

# ACS Admission Rates per 1,000 Population by Place

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

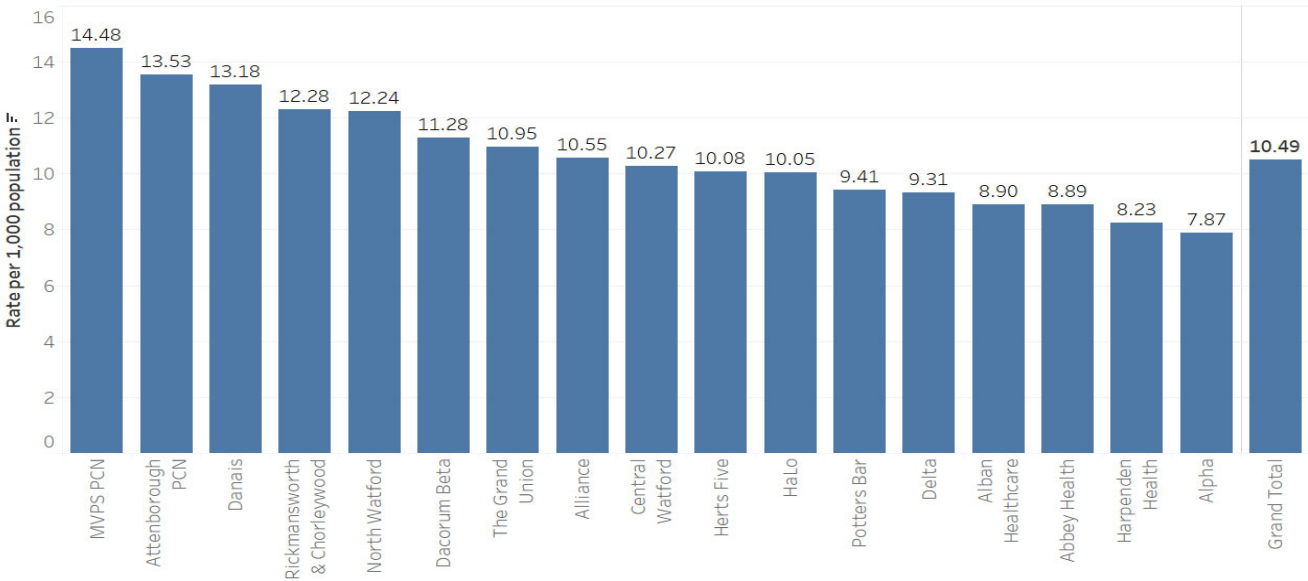


When comparing the Ambulatory Care Sensitive rates per 1,000 population between places, the South West Herts place has the highest rate in the ICB.

Within South West Herts place, Danais has a higher rate per 1,000 population, than the average.

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

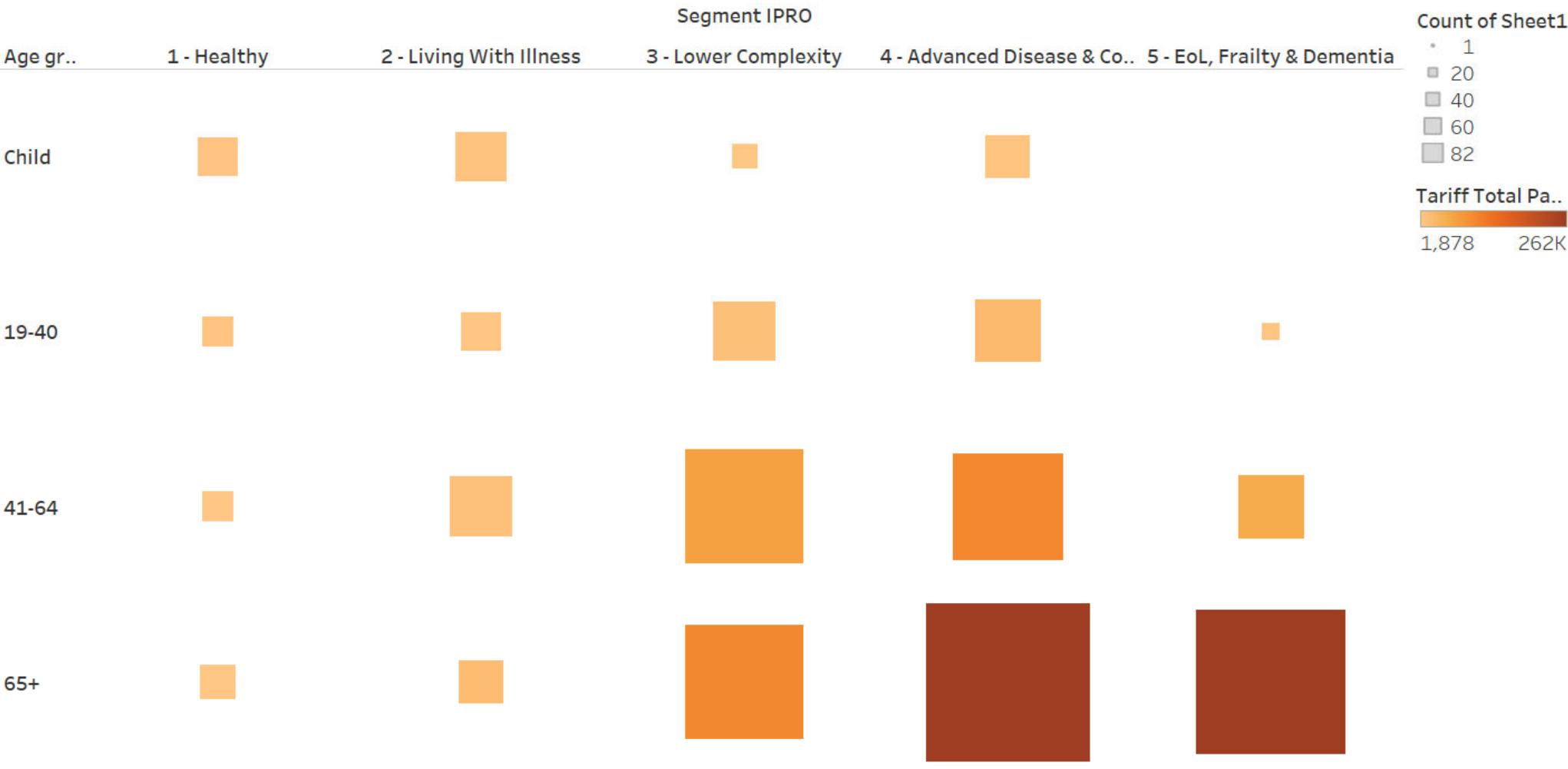
Chronic Ambulatory Care Sensitive Conditions by Place  
Rate per 1,000 Population  
(Total Population)



Source: HWE PHM Team, SUS UEC data-sets

# Chronic ACS by Segment

ACS by segment\_age



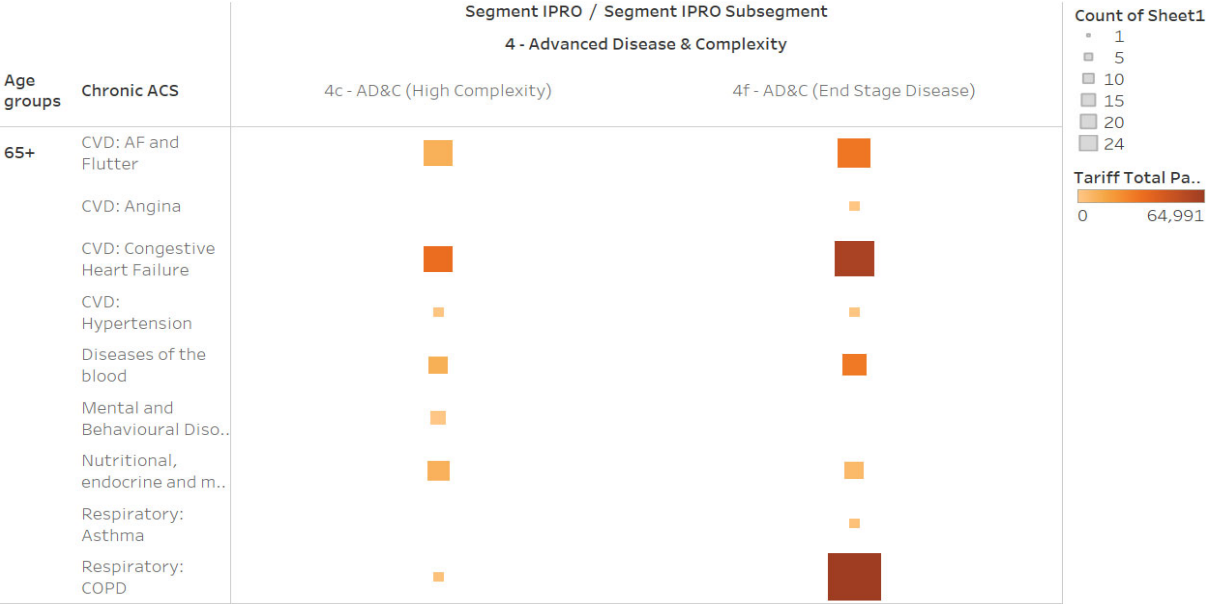
The above chart looks at the ACS admissions by age and segment. The size reflects volume and the depth of colour reflects cost.

When looking at the ACS conditions for Danais 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 and Lower Complexity segments, 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.

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

## Segment 4



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

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

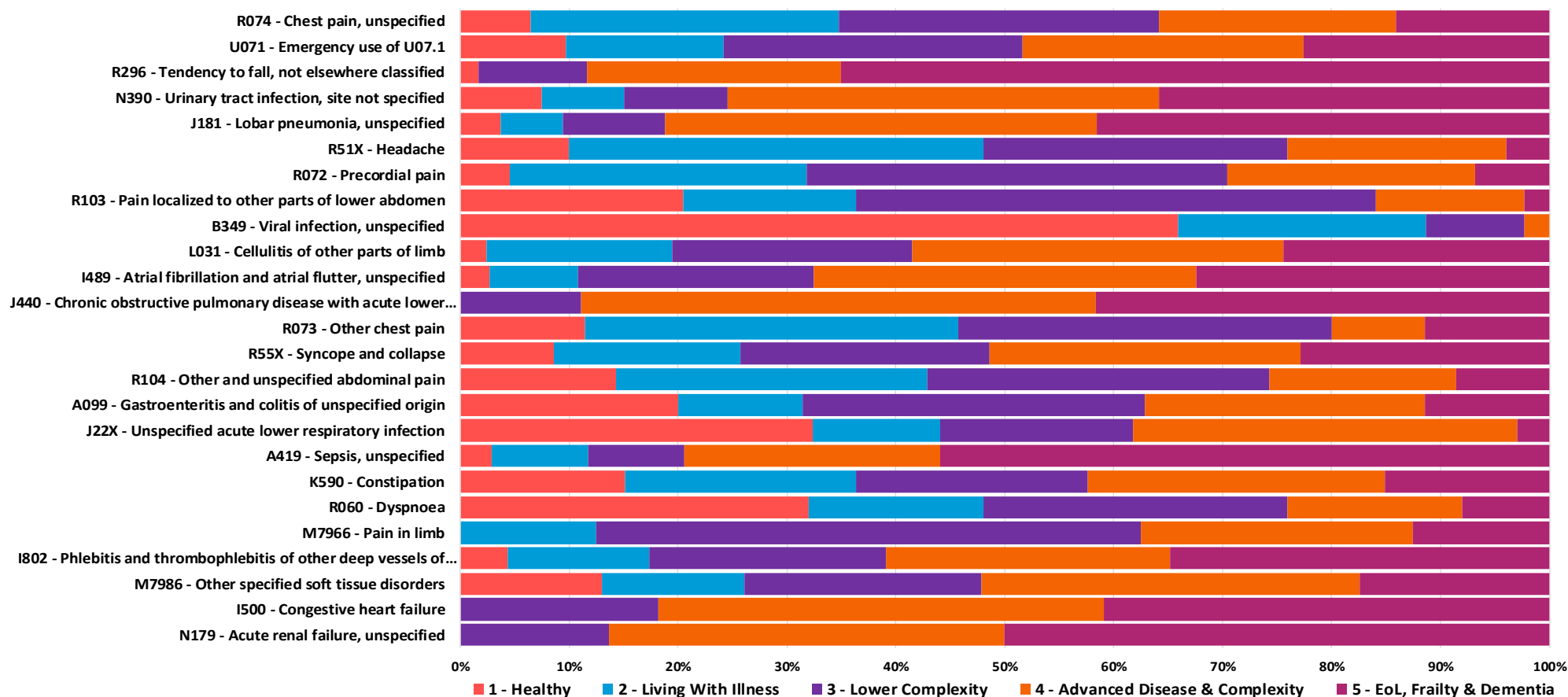
## Segment 5



# UEC Diagnoses by Segment

## PCN Population - UEC Top 25 Primary Diagnoses by Segment

Highest Emergency Admissions from Top to Bottom



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



# UEC & Segmentation + Deprivation by Ward

UEC Patients Seen by Segment & Ward	1 - Healthy	2 - Living With Illness	3 - Lower Complexity	4 - Advanced Disease & Complexity	5 - EoL, Frailty & Dementia	Grand Total
Abbotts Langley & Bedmond		1		1		2
Adeyfield East	88	96	117	113	86	500
Adeyfield West	38	54	72	121	85	370
Apsley and Corner Hall	28	35	61	77	129	330
Ashley				1		1
Ashridge				1		1
Bennetts End	38	61	54	70	89	312
Berkhamsted West				2		2
Bovingdon, Flaunden and Chipperfield	1	3	1			5
Boxmoor	9	7	15	16	18	65
Chaulden and Warners End	17	17	18	19	11	82
Gade Valley		3				3
Gadebridge	11	11	20	29	3	74
Grovehill	13	31	43	54	58	199
Hemel Hempstead Town	19	27	37	46	13	142
Highfield	13	13	36	45	22	129
Kings Langley	1	1	2	7		11
Leggatts				1		1
Leverstock Green	71	157	135	171	101	635
Nascot					5	5
Nash Mills	20	29	37	67	9	162
Redbourn		3		3		6
Rickmansworth Town			1			1
Vicarage				2		2
Watling	1	1		3	2	7
Woodhall Farm	8	11	8	20	11	58
Unknown Ward			4	5	3	12
<b>Grand Total</b>	<b>376</b>	<b>561</b>	<b>661</b>	<b>874</b>	<b>645</b>	<b>3117</b>

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.

UEC Patients Seen by Deprivation Quintile & Ward 1 = Most Deprived, 5 = Least Deprived	1	2	3	4	5	(blank)	Grand Total
Abbotts Langley & Bedmond		2					2
Adeyfield East	312		188				500
Adeyfield West	247		123				370
Apsley and Corner Hall	155	97	44	34			330
Ashley					1		1
Ashridge				1			1
Bennetts End	144		83	85			312
Berkhamsted West		2					2
Bovingdon, Flaunden and Chipperfield				4	1		5
Boxmoor			24	12	29		65
Chaulden and Warners End		49	23	10			82
Gade Valley				3			3
Gadebridge		52	22				74
Grovehill	124	75					199
Hemel Hempstead Town	23	119					142
Highfield	129						129
Kings Langley			10	1			11
Leggatts		1					1
Leverstock Green	111	302	96		126		635
Nascot					5		5
Nash Mills		78	84				162
Redbourn		5			1		6
Rickmansworth Town					1		1
Vicarage	2						2
Watling		7					7
Woodhall Farm	19		26	13			58
Unknown Ward						12	12
<b>Grand Total</b>	<b>1266</b>	<b>789</b>	<b>723</b>	<b>163</b>	<b>164</b>	<b>12</b>	<b>3117</b>

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 by the Government; in the graph quintile 1 is the Highest or Most deprived, and quintile 5 is the Least deprived.



## Hospital Admissions

	Period	HERTFORDSHIRE AND WEST ESSEX	DANAIS PCN
Emergency admissions injuries due to falls in those aged 65+	2020/21	2026	2300.7
Emergency asthma, diabetes and epilepsy admissions (aged 0-18)	2020/21	130.8	167.6
Emergency admissions for children with lower respiratory tract infections (age 0-18)	2020/21	40.5	
Emergency admissions for chronic ambulatory care sensitive conditions	2020/21	505.9	798
Mental health admissions (all ages)	2020/21	177.2	145.6
Emergency Cancer Admissions	2020/21	494.9	540.5
Emergency admissions for acute conditions shouldn't require admissions	2020/21	611.6	873.6

■ Similar 
 ■ Significantly Worse 
 ■ Significantly Better

[PH.Intelligence@hertfordshire.gov.uk](mailto:PH.Intelligence@hertfordshire.gov.uk)

 Hertfordshire Public Health  
Evidence & Intelligence  
Epidemiology



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

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

# Frailty Segment - Detailed PCN Breakdown

	Most deprived				Most affluent						
	1	2	3	4	5	6	7	8	9	10	
Index of Multiple Deprivation Decile	1	2	3	4	5	6	7	8	9	10	PCN
Overall Population Measures											
Population		15	50	131	56	74	115	20	23	34	518
% of population in cohort		2.9%	9.7%	25.3%	10.8%	14.3%	22.2%	3.9%	4.4%	6.6%	100.0%
Avg. Age		74.5	68.1	73.2	72.0	62.6	74.3	72.9	66.1	73.9	71.1
% BAME Where recorded		13%	22%	10%	16%	14%	12%	5%	17%	24%	14%
Avg. number of Acute and Chronic Conditions		6.1	6.6	6.1	6.3	5.4	6.3	5.4	4.1	4.6	5.9
Activity Measure											
Emergency Admissions		0.6	1.8	1.5	1.1	0.8	1.1	0.6	0.6	1.5	1.2
A&E Attendances		0.9	2.5	1.8	1.5	1.1	1.4	0.8	0.9	1.9	1.5
GP Encounters		62.5	76.4	82.9	70.2	57.5	73.7	49.8	54.1	66.1	71.0
Admitted Bed Days		5.1	10.8	9.2	7.7	3.7	8.0	2.7	3.5	11.9	7.7
Physical Health											
Asthma		33.3%	26.0%	20.6%	30.4%	29.7%	28.7%	20.0%	30.4%	11.8%	25.5%
Cancer		53.3%	32.0%	35.9%	44.6%	41.9%	40.9%	50.0%	39.1%	52.9%	40.7%
Chronic Cardiac Disease		60.0%	50.0%	55.0%	55.4%	40.5%	46.1%	50.0%	43.5%	41.2%	49.0%
Chronic Respiratory Disease		53.3%	30.0%	19.8%	28.6%	18.9%	34.8%	35.0%	26.1%	20.6%	26.8%
CKD		0.0%	12.0%	12.2%	12.5%	8.1%	10.4%	0.0%	0.0%	11.8%	9.8%
Heart Disease		46.7%	44.0%	47.3%	39.3%	33.8%	38.3%	35.0%	21.7%	32.4%	39.6%
Hypertension		73.3%	72.0%	71.0%	80.4%	68.9%	73.0%	55.0%	52.2%	52.9%	69.7%
Diabetes		26.7%	50.0%	48.9%	57.1%	52.7%	51.3%	35.0%	43.5%	47.1%	49.4%
Obesity		26.7%	40.0%	38.9%	51.8%	43.2%	36.5%	35.0%	34.8%	32.4%	39.4%
Rheumatoid Arthritis		6.7%	4.0%	8.4%	7.1%	2.7%	2.6%	5.0%	0.0%	2.9%	4.8%
Stroke		53.3%	56.0%	57.3%	50.0%	40.5%	53.0%	25.0%	30.4%	38.2%	49.2%
Mental Health											
Anxiety		20.0%	30.0%	21.4%	21.4%	20.3%	24.3%	15.0%	26.1%	26.5%	23.0%
Depression		33.3%	46.0%	37.4%	33.9%	36.5%	40.0%	35.0%	21.7%	26.5%	36.7%
Dementia		13.3%	32.0%	32.8%	21.4%	23.0%	34.8%	25.0%	0.0%	5.9%	26.4%
Serious Mental Illness		13.3%	24.0%	12.2%	14.3%	14.9%	13.9%	20.0%	4.3%	5.9%	13.9%
Low Mood		0.0%	14.0%	16.0%	10.7%	18.9%	15.7%	5.0%	17.4%	17.6%	14.9%
Suicide		0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Mental Health Flag		33.3%	54.0%	47.3%	41.1%	48.6%	52.2%	45.0%	52.2%	44.1%	48.1%
Screening and Verification Refusal											
Bowel Screening Refused		40.0%	44.0%	29.8%	33.9%	25.7%	29.6%	40.0%	34.8%	29.4%	31.9%
Cervical Screening Refused		0.0%	10.0%	3.8%	3.6%	1.4%	3.5%	0.0%	4.3%	5.9%	3.9%
Flu Vaccine Refused		60.0%	40.0%	35.1%	41.1%	36.5%	32.2%	35.0%	26.1%	50.0%	37.1%
Wider Indicators											
Has A Carer		20.0%	30.0%	26.7%	32.1%	23.0%	25.2%	15.0%	13.0%	23.5%	25.3%
Is A Carer		0.0%	4.0%	10.7%	8.9%	6.8%	3.5%	20.0%	13.0%	0.0%	7.1%
MED3 Not Fit For Work (ever)		26.7%	26.0%	19.8%	30.4%	35.1%	23.5%	25.0%	34.8%	11.8%	25.1%
MED3 Not Fit For Work (in Last Year)		6.7%	8.0%	6.1%	7.1%	10.8%	6.1%	0.0%	8.7%	2.9%	6.8%
MED3 Not Fit For Work (in Last Six Months)		6.7%	4.0%	4.6%	5.4%	8.1%	5.2%	0.0%	8.7%	2.9%	5.2%
Avg. number of eFI Deficits		8.9	10.7	11.5	10.3	8.8	10.4	7.9	8.2	8.3	10.1
eFI_Housebound		13.3%	16.0%	22.1%	14.3%	16.2%	12.2%	10.0%	17.4%	8.8%	15.8%
eFI_SocialVulnerability		33.3%	34.0%	27.5%	25.0%	23.0%	33.9%	10.0%	17.4%	17.6%	27.0%
People_ChildrenInPoverty							13.6				13.6
Housing_FuelPoverty		17.1	15.9	12.7	14.0	12.3	10.3	8.5	9.5	6.7	12.0
Housing_OnePersonHousehold		30.4	33.7	25.3	30.4	26.4	27.2	22.7	23.5	16.9	26.7

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 Danais 37.9% 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 Danais PCN is above the ICB, and the data shows significantly lower usage of GP services.

Within this segment we can see the presence of Chronic Cardiac Disease, Chronic Respiratory Disease, Heart Disease 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 lower than the ICB.

# Applying Machine Learning factors without our data platform

## Why Machine Learning?

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

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

## Approach

- Trained several machine learning models on ~1 million linked patient records across ~200 features from the ICS segmentation dataset, for binary A&E risk prediction (will this patient use A&E within the next year?).

- Selected a final twin ensemble model with a binary classification accuracy of 81.3%.

- Extracted output probabilities for each class to estimate a risk score for each patient, and generated risk scores for all of the patients in the segmentation data. We can think of the risk score as the model's confidence in a patient requiring A&E.

- Partitioned the patient population into 3 distinct grades, Low, Medium and High risk, based on the machine learning predictions:

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

## Creating search logic from significant features

- Features input to the predictive model include demographic features, diagnosis codes, prescribed medication, waitlist information and environmental factors such as housing and proximity to healthcare.

- Used feature rankings learned by the model to reduce the set of ~200 features to the 30 most significant features that best explain the variance in the predicted class (requiring A&E or not).

- Trained secondary machine learning models, 5-split decision trees, to classify patients into each of the three risk grades based on these 30 significant features.

- Extracted decision tree logic to create search filters for patients by risk grade. 5 splits →  $2^5 = 32$  unique rules. These rules have been merged and prioritised (by considering individual accuracies and sample sizes) to maximise precision and recall in the final search filters.

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

Risk Grade: High	<b>Age &lt; 3 AND Drug: Salbutamol AND eFI: Dyspnoea</b>
	<b>Med3 Not Fit For Work (last six months) AND Substance Abuse AND ONE OF:-</b> <ul style="list-style-type: none"> <li>• Drug: Pain Management AND eFI: Peptic Ulcer</li> <li>• Chronic Cardiac Disease</li> </ul>
Risk Grade: Medium	<b>Drug: Pain Management AND eFI: Falls AND ONE OF:-</b> <ul style="list-style-type: none"> <li>• Stroke AND eFI: Memory and Cognitive Problems</li> <li>• Stroke AND Substance Abuse</li> <li>• End Stage Disease</li> </ul>
	<b>Age &lt; 3 AND ONE OF:-</b> <ul style="list-style-type: none"> <li>• Drug: Salbutamol AND NO eFI: Dyspnoea</li> <li>• On any waiting list</li> </ul>
	<b>Med3 Not Fit For Work (last six months) AND Substance Abuse AND NO Chronic Cardiac Disease</b>
	<b>Age &lt; 45 AND Med3 Not Fit For Work (last six months) AND Drug: Pain Management</b>
Risk Grade: Low	<b>Drug: Pain Management AND Substance Abuse AND ONE OF:</b> <ul style="list-style-type: none"> <li>• Drug: Opioids</li> <li>• eFI: Falls AND NO Stroke AND NO End Stage Disease</li> </ul>
	All others

# Quality & Outcomes Framework

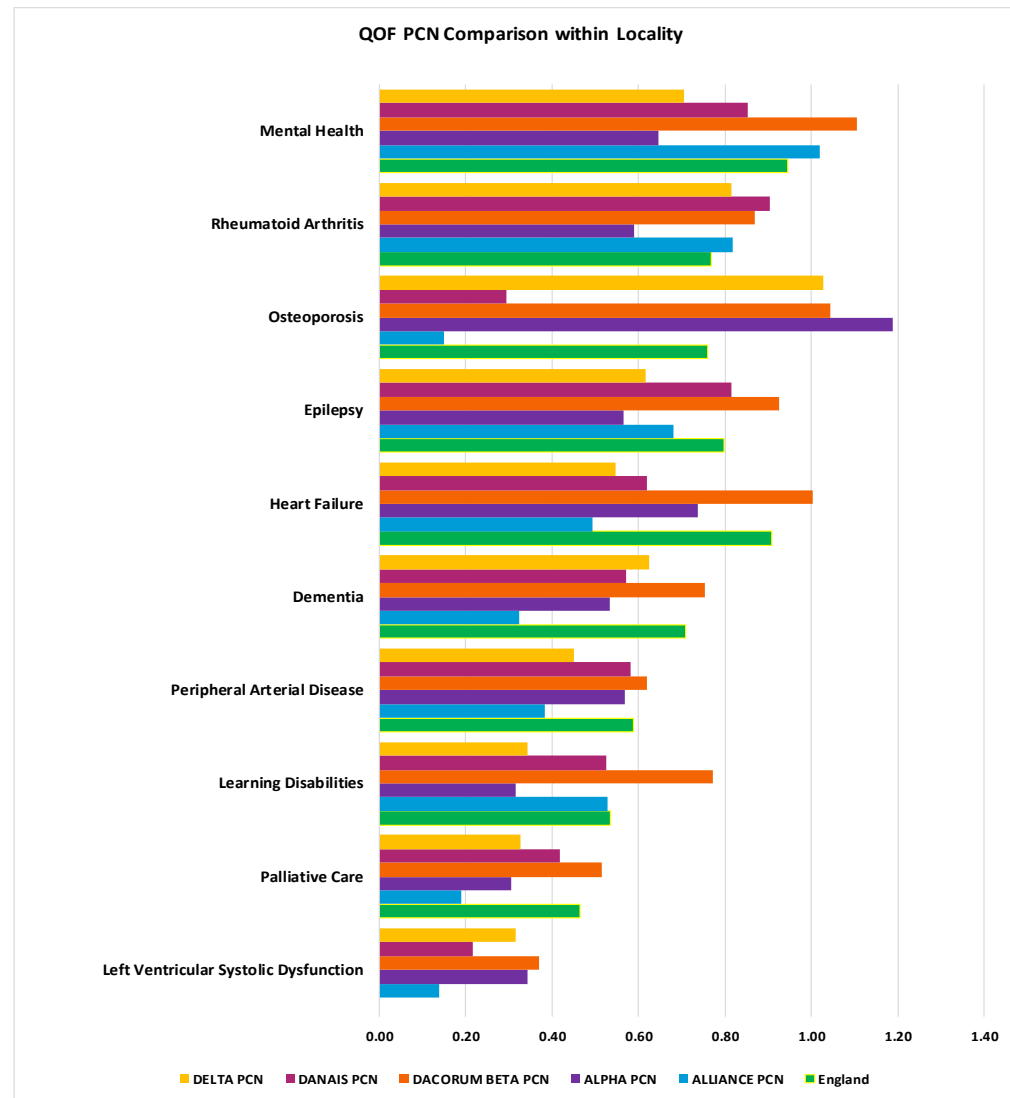
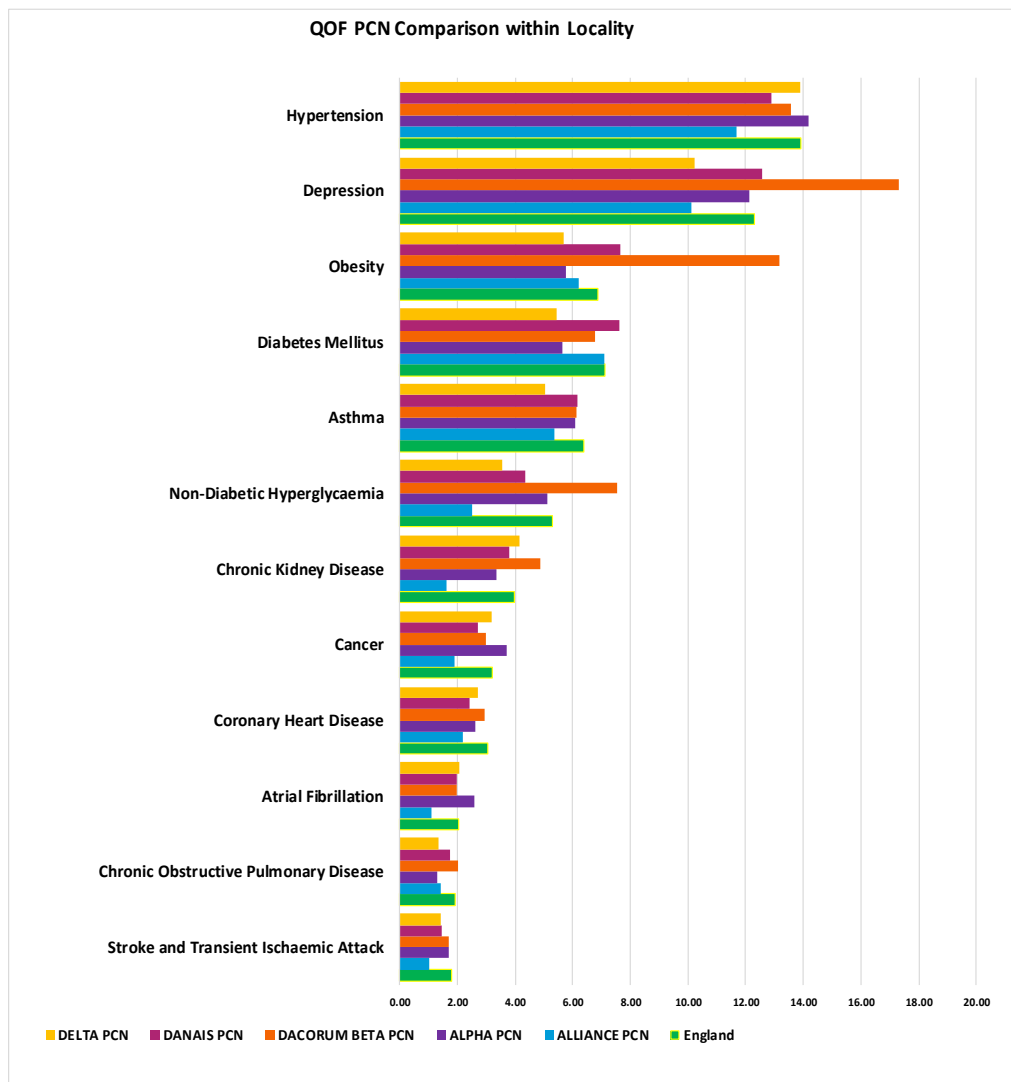
## Contents:

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





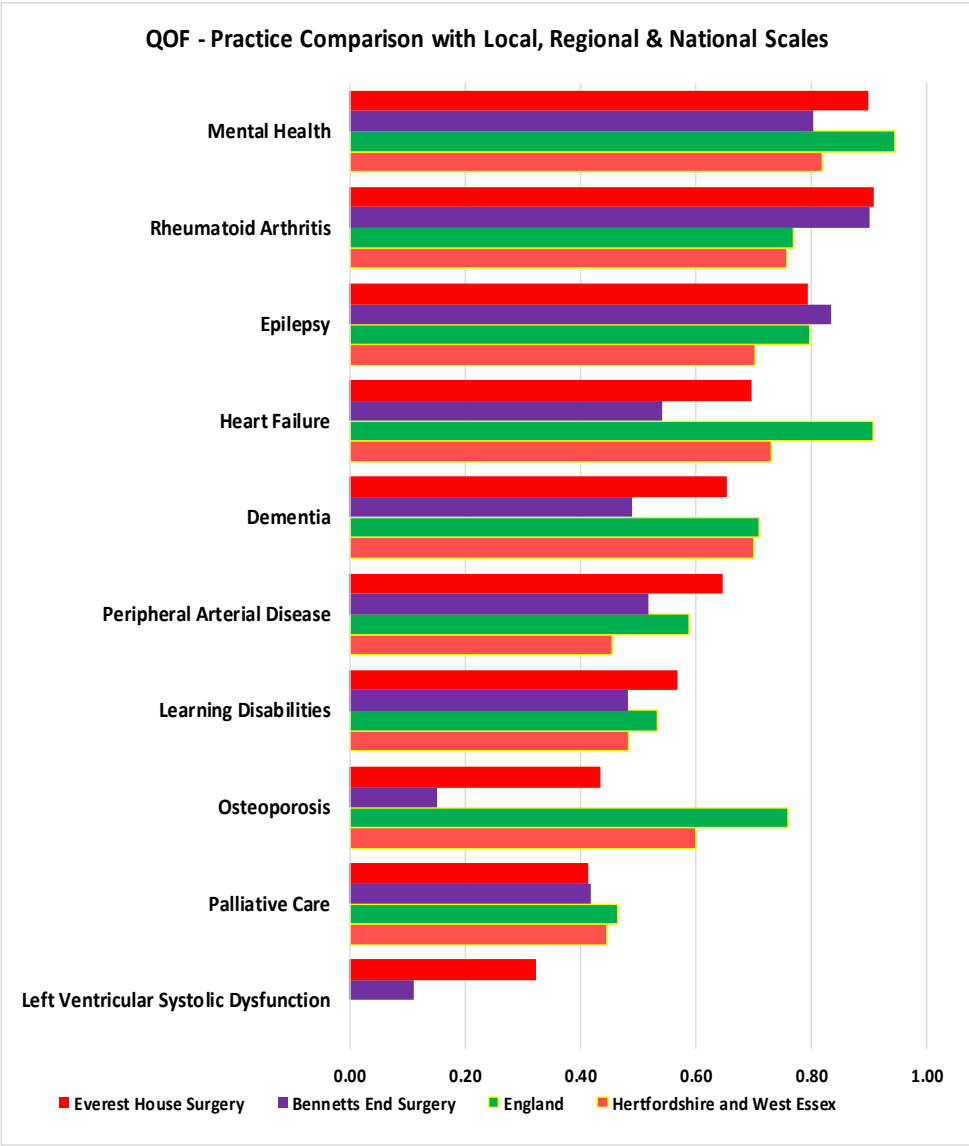
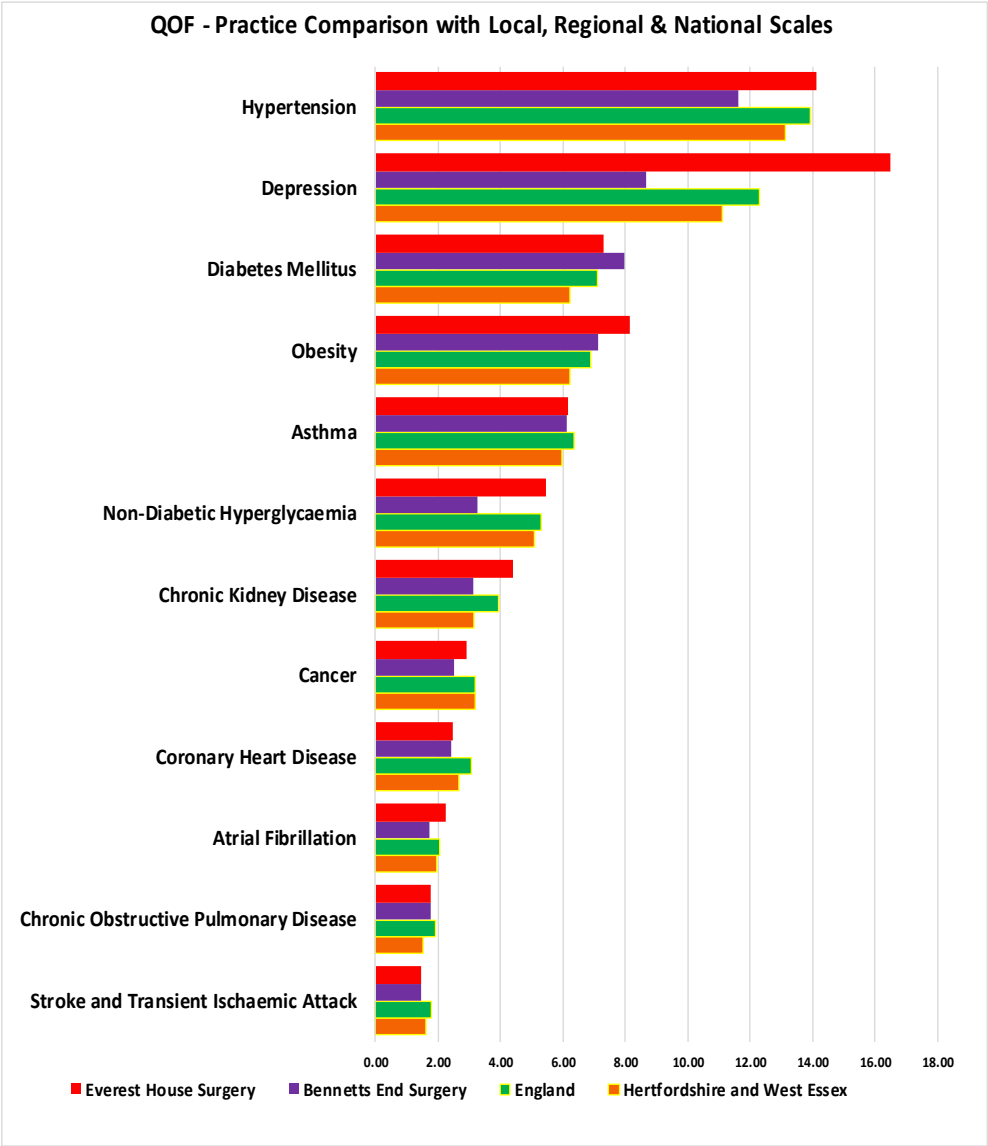
# QOF - Locality & PCN Comparison



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

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

# QOF - Local, Regional, & National Comparison



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

# QOF - Missed Diagnoses & Admission Rates

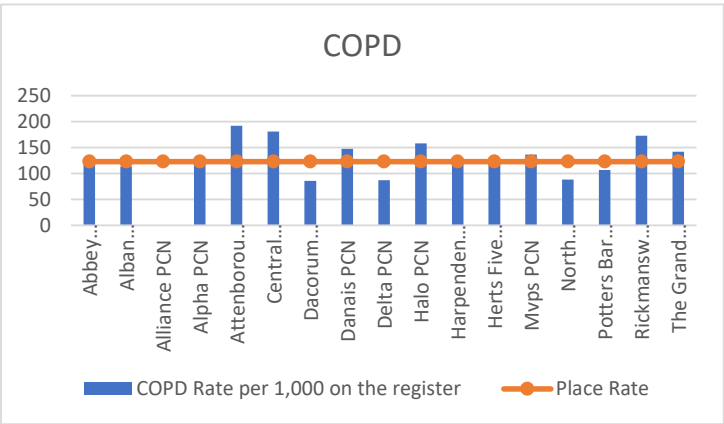
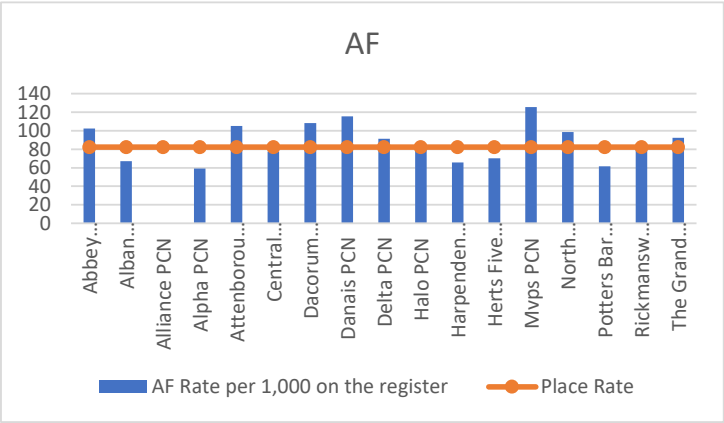
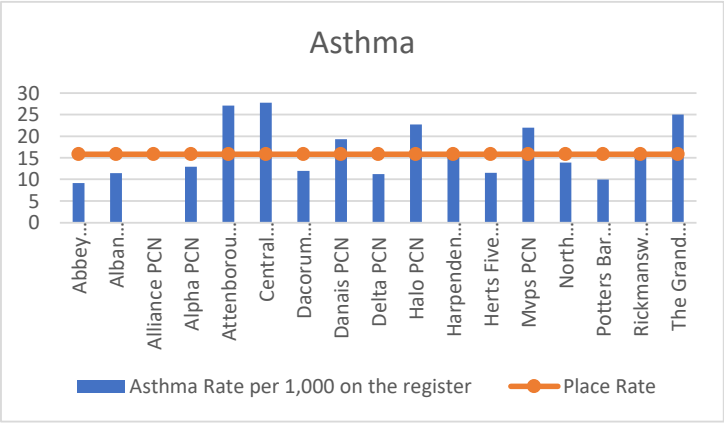
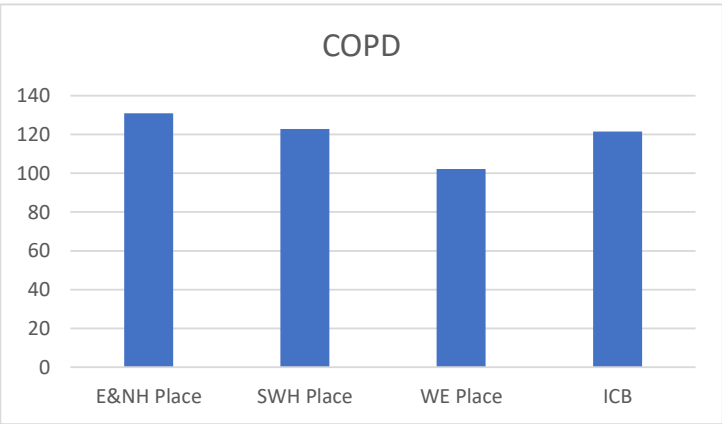
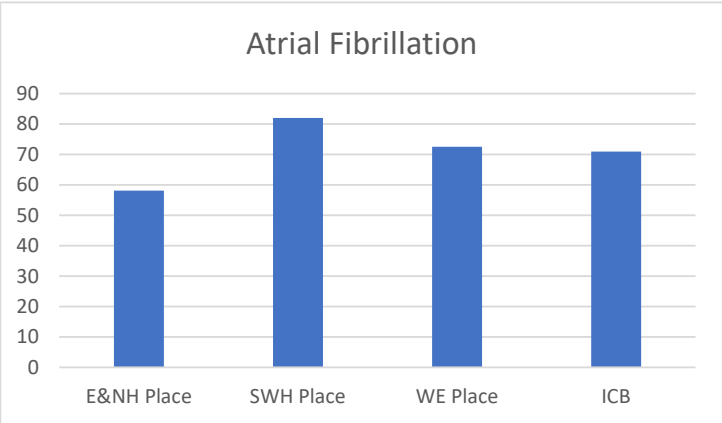
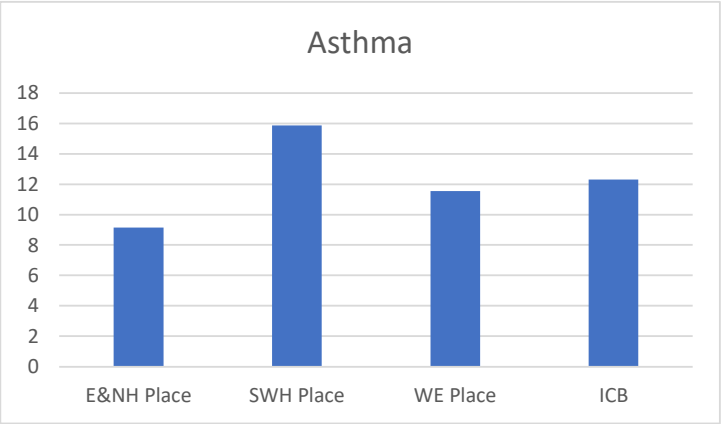
Disease	QOF List size 21-22	QOF Register 21- 22	QOF Prevalence 21/22	Place prevalence	ICB prevalence	Modelled prevalence	New diagnoses to meet Place average	new diagnoses to meet ICB average	New diagnoses to meet estimated prevalence
Asthma	28839	1762	6.11%	5.89%	6.17%		-64	17	
COPD	30949	523	1.69%	1.38%	1.49%	2.27%	-96	-63	180
Diabetes	24311	1947	8.01%	6.26%	6.39%	7.77%	-426	-394	-57
Non-diabetic hyperglycaemia	23964	1293	5.40%	6.73%	5.87%	11.28%	319	114	1411
Hypertension	30949	4006	12.94%	12.66%	13.21%		-87	83	
Atrial Fibrillation	30949	614	1.98%	1.98%	2.02%	2.40%	0	12	129
Stroke and TIA	30949	457	1.48%	1.53%	1.61%		17	41	
Coronary Heart Disease	30949	775	2.50%	2.60%	2.65%		30	46	
Heart failure	30949	195	0.63%	0.69%	0.75%	1.32%	19	39	212
Left Ventricular Systolic Dysfunction	30949	66	0.21%	0.29%	0.30%		23	27	
Chronic Kidney Disease	23964	887	3.70%	3.75%	3.21%		11	-119	
Peripheral Arterial Disease	30949	163	0.53%	0.42%	0.44%		-34	-26	
Cancer	30949	941	3.04%	3.38%	3.35%		107	95	
Palliative care	30949	134	0.43%	0.33%	0.43%		-31	-1	

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.

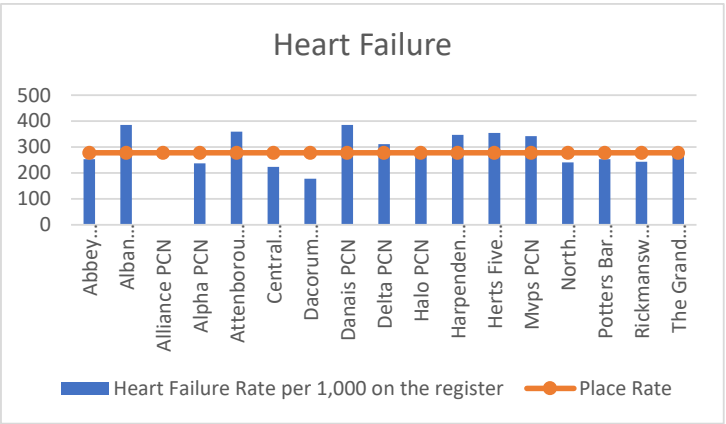
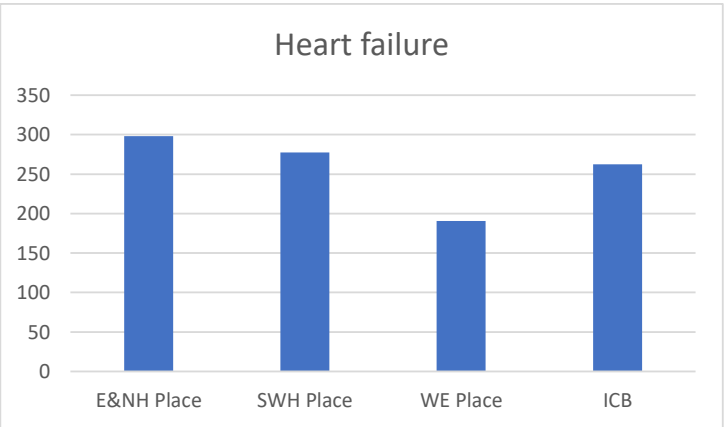
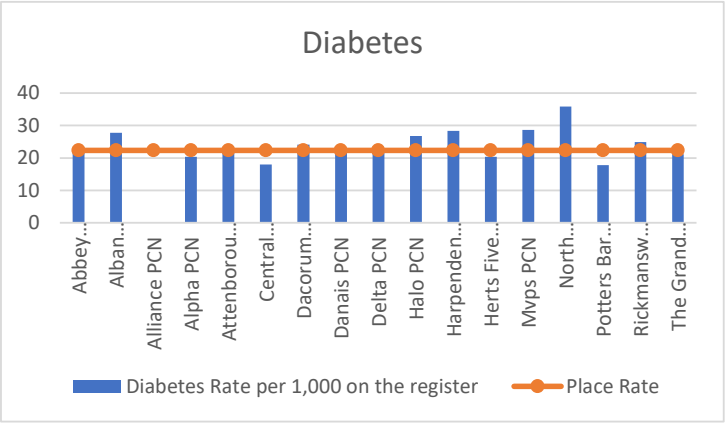
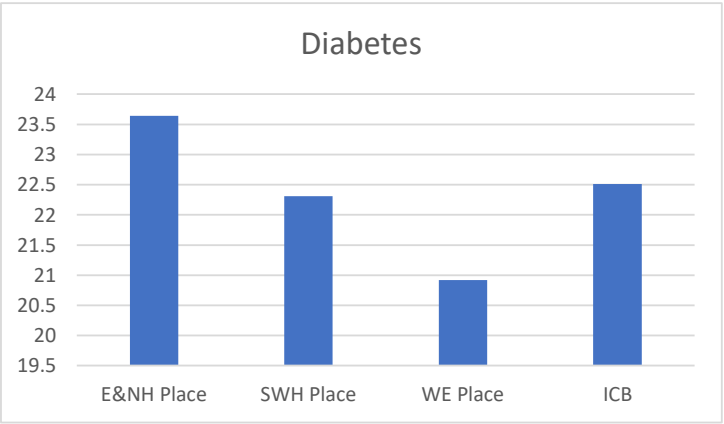
It shows the places compared with the ICB on the left and on the right it show the PCNs within a Place.

These are continued on the following place.

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

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

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





# Appendices

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

## Contents:

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



# Matrix Data - Ethnicity

Ethnicity Group		Other Ethnic Groups			Asian			Black			Mixed			Other			White			Unknown			Grand Total
Complexity		Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	
Overall Population Measures																							
Population		196	33	6	1,193	622	51	396	201	16	347	156	19	3,988	2,513	166	9,861	8,447	1,397	754	109		30,472
Age		31	45	57	24	42	56	28	41	51	16	31	37	25	42	51	30	49	61	34	40	90	37
Male %		52.6%	54.5%	33.3%	50.4%	47.1%	54.9%	51.3%	48.3%	56.3%	43.8%	45.5%	57.9%	55.2%	50.0%	51.2%	52.0%	45.4%	47.2%	67.5%	61.5%	0.0%	50.3%
IMD		5.8	6.3	4.8	5.4	5.5	5.2	5.5	5.6	4.7	5.5	5.5	5.2	5.7	5.6	5.5	5.9	5.9	5.6	5.7	5.8	5.0	5.8
% BAME (where recorded)		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	0%	0%	100%	100%		34%
Multimorbidity (acute & chronic)		0.0	1.7	6.5	0.0	1.7	6.9	0.0	1.7	6.9	0.0	1.7	6.6	0.0	1.6	6.9	0.0	1.8	6.7	0.0	1.3	5.0	1.1
Finance and Activity Measures																							
Spend	Total	£0.0M	£0.0M	£0.0M	£0.3M	£0.6M	£0.1M	£0.1M	£0.2M	£0.1M	£0.1M	£0.1M	£0.0M	£0.7M	£1.2M	£0.4M	£2.6M	£8.7M	£5.9M	£0.0M	£0.0M	£0.0M	£21.1M
	PPPY - Total	£72	£524	£4,509	£273	£914	£2,568	£277	£950	£3,716	£335	£638	£2,631	£169	£461	£2,342	£265	£1,024	£4,191	£30	£77	£97	£692
Acute Elective		£7	£102	£166	£91	£341	£923	£94	£365	£1,601	£118	£223	£670	£45	£161	£637	£94	£411	£1,115	£3	£7	£0	£238
Acute Non-Elective		£7	£295	£3,903	£106	£368	£1,071	£106	£402	£1,174	£135	£233	£917	£52	£134	£1,009	£97	£407	£2,475	£3	£6	£0	£303
GP Encounters		£53	£127	£323	£74	£179	£333	£73	£153	£240	£82	£142	£252	£68	£141	£240	£72	£162	£324	£23	£64	£97	£117
Community		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Mental Health		£5	£0	£117	£2	£25	£188	£4	£30	£700	£0	£40	£784	£4	£23	£436	£3	£41	£261	£0	£0	£0	£31
Social Care		£0	£0	£0	£0	£1	£53	£0	£0	£0	£0	£0	£7	£0	£2	£19	£0	£3	£16	£0	£0	£0	£2
GP PPPY		10	23	59	13	30	56	13	27	40	15	25	42	12	25	42	13	29	57	4	12	20	21
Beddays PPPY - Acute EM		0	1	14	0	1	3	0	1	5	0	0	1	0	0	4	0	1	4	0	0	0	1
Physical Health																							
Diabetes		0.0%	33.3%	66.7%	0.0%	42.4%	78.4%	0.0%	30.3%	56.3%	0.0%	18.6%	57.9%	0.0%	16.8%	47.6%	0.0%	21.7%	55.7%	0.0%	15.6%	0.0%	11.7%
COPD		0.0%	0.0%	33.3%	0.0%	0.3%	25.5%	0.0%	1.0%	18.8%	0.0%	0.6%	15.8%	0.0%	1.3%	17.5%	0.0%	2.6%	26.6%	0.0%	0.0%	0.0%	2.2%
Chronic Respiratory Di...		0.0%	0.0%	33.3%	0.0%	1.0%	27.5%	0.0%	3.5%	31.3%	0.0%	0.6%	15.8%	0.0%	1.8%	19.3%	0.0%	3.3%	30.5%	0.0%	0.0%	0.0%	2.7%
Hypertension		0.0%	45.5%	66.7%	0.0%	29.4%	76.5%	0.0%	36.8%	81.3%	0.0%	25.6%	47.4%	0.0%	31.6%	68.1%	0.0%	37.4%	75.4%	0.0%	29.4%	100.0%	18.1%
Obesity		0.5%	15.2%	16.7%	1.9%	11.7%	29.4%	1.5%	12.9%	31.3%	1.2%	4.5%	21.1%	1.8%	10.5%	27.1%	6.1%	26.4%	42.7%	1.9%	12.8%	0.0%	13.1%
Mental Health																							
Anxiety/Phobias		0.0%	18.2%	50.0%	0.0%	11.3%	39.2%	0.0%	8.0%	31.3%	0.0%	13.5%	47.4%	0.0%	16.6%	47.0%	0.0%	15.7%	38.2%	0.0%	11.0%	0.0%	8.3%
Depression		0.0%	30.3%	83.3%	0.0%	14.3%	47.1%	0.0%	14.4%	37.5%	0.0%	23.1%	78.9%	0.0%	30.4%	64.5%	0.0%	27.9%	52.3%	0.0%	22.9%	100.0%	13.8%
Learning Disability		0.0%	0.0%	16.7%	0.0%	2.3%	25.5%	0.0%	1.0%	25.0%	0.0%	3.8%	42.1%	0.0%	2.1%	33.7%	0.0%	1.9%	20.2%	0.0%	1.8%	0.0%	2.0%
Dementia		0.0%	3.0%	0.0%	0.0%	0.6%	31.4%	0.0%	0.5%	31.3%	0.0%	0.0%	47.4%	0.0%	1.4%	36.1%	0.0%	1.2%	26.2%	0.0%	0.9%	100.0%	2.0%
Other Characteristics																							
Housebound (eFI)		0.0%	3.0%	16.7%	0.0%	0.5%	11.8%	0.0%	1.0%	6.3%	0.0%	0.0%	0.0%	0.0%	0.4%	3.6%	0.1%	0.9%	5.9%	0.0%	0.9%	0.0%	0.6%
Social Vulnerability (eFI)		1.0%	3.0%	33.3%	0.8%	3.1%	31.4%	1.5%	2.5%	12.5%	1.2%	3.2%	15.8%	0.7%	3.7%	18.1%	0.9%	5.3%	20.7%	0.1%	1.8%	0.0%	3.5%
History of Smoking (T...		3.6%	15.2%	33.3%	1.9%	15.3%	13.7%	1.8%	10.4%	12.5%	0.9%	12.8%	26.3%	4.7%	17.3%	19.3%	3.9%	16.4%	25.1%	1.1%	13.8%	0.0%	9.8%
Not Fit for Work (In Year)		2.0%	3.0%	16.7%	2.8%	9.5%	17.6%	5.3%	9.5%	31.3%	2.9%	8.3%	15.8%	4.2%	11.0%	12.7%	3.4%	8.8%	9.0%	1.1%	0.9%	0.0%	6.1%
On a Waiting List		2.0%	9.1%	16.7%	5.0%	9.8%	19.6%	4.3%	10.4%	12.5%	6.9%	8.3%	26.3%	4.6%	7.3%	16.3%	5.5%	11.6%	23.4%	0.5%	0.0%	0.0%	8.1%

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

# Matrix Data - Segment & Sub-Segment

Life Course Segment ▾		1 - Healthy			2 - Living With Illness			3 - Lower Complexity			4 - Advanced Disease & Complexity					5 - EoL, Frailty & Dementia			Grand Total	
Life Course Subsegment ▾		1a - H (Low Risk)	1b - H (Maternity & Child)	1c - H (Acute Episodic)	2a - Lwl (At Risk)	2b - Lwl (LTCs)	2c - Lwl (MH)	3a - LC (Mod. Social Co..)	3b - LC (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...		
Overall Population Measures																				
Population		11,724	807	1,001	2,910	4,472	1,346	292	4,034	1,112	901	340	95	395	525	161	68	289	30,472	
Age		27	5	18	43	41	38	44	49	61	58	56	28	31	65	74	83	66	37	
Male %		56.4%	40.0%	52.9%	45.4%	52.9%	40.5%	39.7%	45.0%	39.7%	48.1%	40.0%	46.3%	45.8%	52.4%	42.9%	19.1%	38.8%	50.3%	
IMD		5.8	5.6	5.7	5.8	5.9	5.5	5.8	5.7	5.8	5.7	5.6	5.2	5.4	5.5	5.8	5.3	5.7	5.8	
% BAME (where recorded)		39%	32%	50%	33%	34%	31%	35%	27%	24%	20%	22%	34%	22%	14%	15%	7%	15%	34%	
Multimorbidity (acute & chronic)		0.0	0.0	0.0	0.0	1.0	1.0	0.4	2.4	2.6	5.2	2.9	3.1	5.8	5.2	7.6	7.0	4.7	1.1	
Finance and Activity Measures																				
Spend ▾		Total	£0.9M	£0.4M	£1.2M	£1.3M	£2.0M	£0.6M	£0.1M	£3.3M	£1.9M	£2.2M	£0.6M	£0.2M	£1.0M	£2.1M	£1.1M	£0.4M	£1.7M	£21.1M
		PPPY - Total	£73	£480	£1,230	£435	£457	£445	£400	£820	£1,748	£2,454	£1,714	£1,754	£2,538	£3,969	£7,078	£5,981	£6,042	£692
Acute Elective			£19	£65	£487	£165	£193	£141	£176	£349	£804	£896	£369	£215	£284	£1,551	£1,172	£235	£1,812	£238
Acute Non-Elective			£4	£317	£616	£142	£145	£164	£94	£279	£683	£1,262	£1,023	£357	£651	£2,010	£5,346	£5,088	£3,785	£303
GP Encounters			£48	£96	£121	£123	£115	£120	£124	£172	£244	£258	£217	£196	£226	£298	£480	£481	£342	£117
Community			£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Mental Health			£2	£2	£6	£6	£4	£16	£5	£20	£16	£37	£46	£873	£1,341	£109	£75	£166	£101	£31
Social Care			£0	£0	£0	£0	£0	£4	£0	£0	£1	£1	£58	£114	£37	£1	£6	£10	£2	£2
GP PPPY			8	17	22	21	20	21	22	31	43	45	39	35	40	52	85	83	61	21
Beddays PPPY - Acute EM			0	1	1	0	0	0	0	0	1	2	2	3	2	5	8	9	8	1
Physical Health																				
Diabetes ▾			0.0%	0.0%	0.0%	0.0%	15.5%	0.0%	6.2%	30.0%	43.4%	50.8%	29.1%	15.8%	29.9%	39.2%	77.0%	42.6%	35.6%	11.7%
COPD ▾			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.6%	2.9%	9.7%	2.6%	1.1%	2.3%	61.9%	35.4%	14.7%	16.3%	2.2%
Chronic Respiratory Dis... ▾			0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	3.5%	3.7%	12.1%	2.9%	3.2%	4.1%	66.9%	37.9%	19.1%	22.5%	2.7%
Hypertension ▾			0.0%	0.0%	0.0%	0.0%	31.1%	0.0%	8.6%	44.6%	57.7%	68.9%	46.2%	28.4%	40.0%	65.9%	91.3%	79.4%	55.4%	18.1%
Obesity ▾			0.0%	0.0%	0.0%	23.9%	14.4%	12.3%	12.0%	26.7%	40.4%	37.1%	26.8%	18.9%	22.3%	39.6%	52.2%	17.6%	37.4%	13.1%
Mental Health																				
Anxiety/Phobias ▾			0.0%	0.0%	0.0%	0.0%	0.0%	20.7%	2.1%	30.8%	13.8%	30.9%	22.6%	35.8%	59.2%	17.3%	25.5%	23.5%	21.5%	8.3%
Depression ▾			0.0%	0.0%	0.0%	0.0%	0.0%	70.4%	12.7%	44.2%	24.5%	44.0%	22.9%	36.8%	75.4%	29.9%	46.6%	39.7%	30.4%	13.8%
Learning Disability ▾			0.0%	0.0%	0.0%	0.0%	0.0%	2.2%	0.3%	1.8%	0.4%	9.9%	20.6%	57.9%	48.6%	6.5%	13.0%	20.6%	6.2%	2.0%
Dementia ▾			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	22.5%	8.2%	12.6%	45.6%	6.9%	19.3%	100.0%	13.1%	2.0%	
Other Characteristics																				
Housebound (eFI) ▾			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	24.1%	6.3%	1.8%	2.9%	23.6%	32.4%	7.6%	0.6%
Social Vulnerability (eFI) ▾			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	75.7%	4.3%	10.3%	11.1%	29.1%	24.2%	18.2%	21.3%	39.8%	48.5%	14.9%	3.5%
History of Smoking (Tw... ▾			0.0%	0.0%	0.0%	20.5%	12.3%	13.7%	11.3%	20.1%	20.9%	21.6%	15.9%	11.6%	25.6%	27.4%	23.0%	5.9%	14.2%	9.8%
Not Fit for Work (In Year) ▾			0.0%	0.0%	0.0%	19.0%	5.9%	11.9%	6.8%	12.2%	9.4%	10.5%	3.2%	10.5%	13.9%	10.3%	4.3%	0.0%	9.7%	6.1%
On a Waiting List ▾			3.3%	6.9%	11.1%	8.8%	6.8%	8.5%	6.8%	11.6%	18.9%	21.9%	15.3%	8.4%	14.7%	24.4%	28.0%	8.8%	16.6%	8.1%

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



# Matrix Data - GP Activity

GP Activity		0			1			2-3			4-5			6-9			10+			Grand Total
Complexity		Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	Low Complexity	Middle Complexity	High Complexity	
Overall Population Measures																				
Population		889	86		1,140	149		1,970	361	14	2,111	489	12	3,978	1,490	50	6,647	9,506	1,573	30,472
Age		24	29	53	22	25	28	21	23	15	26	33	17	31	38	30	32	50	61	37
Male %		65.1%	68.6%	40.0%	64.4%	73.2%	100.0%	62.0%	64.5%	85.7%	63.7%	64.2%	58.3%	55.4%	57.9%	66.0%	42.4%	42.7%	46.9%	50.3%
IMD		5.5	5.7	5.8	5.6	5.7	3.5	5.7	5.6	5.7	5.8	5.6	5.0	5.9	5.8	5.7	5.8	5.8	5.5	5.8
% BAME (where recorded)		35%	32%	20%	41%	41%	50%	41%	37%	43%	40%	38%	42%	38%	33%	16%	38%	28%	15%	34%
Multimorbidity (acute & chronic)		0.0	1.4	7.0	0.0	1.2	6.5	0.0	1.2	7.6	0.0	1.3	7.0	0.0	1.4	6.9	0.0	1.9	6.7	1.1
Finance and Activity Measures																				
Spend	Total	£0.0M	£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	£3.2M	£10.4M	£6.5M	£21.1M
	PPPY - Total	£3	£3	£50	£10	£16	£6	£31	£48	£99	£58	£88	£135	£117	£158	£468	£484	£1,094	£4,123	£692
Acute Elective		£3	£3	£33	£2	£9	£0	£10	£14	£0	£17	£24	£0	£36	£44	£61	£165	£433	£1,110	£238
Acute Non-Elective		£0	£0	£17	£2	£0	£0	£6	£13	£0	£13	£16	£0	£36	£48	£67	£180	£425	£2,375	£303
GP Encounters		£0	£0	£0	£6	£6	£6	£14	£14	£13	£26	£26	£26	£43	£45	£48	£134	£191	£329	£117
Community		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Mental Health		£0	£0	£0	£0	£1	£0	£1	£7	£86	£2	£22	£108	£2	£20	£292	£5	£41	£290	£31
Social Care		£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£1	£0	£0	£3	£18	£2
GP PPPY		0	0	0	1	1	1	2	3	2	5	5	5	8	8	8	24	34	58	21
Beddays PPPY - Acute EM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	1
Physical Health																				
Diabetes		0.0%	2.3%	60.0%	0.0%	4.7%	50.0%	0.0%	4.2%	35.7%	0.0%	8.2%	8.3%	0.0%	9.1%	40.0%	0.0%	25.6%	56.6%	11.7%
COPD		0.0%	0.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.1%	0.0%	1.4%	0.0%	0.0%	1.3%	6.0%	0.0%	2.5%	26.4%	2.2%
Chronic Respiratory Dis...		0.0%	1.2%	40.0%	0.0%	0.0%	0.0%	0.0%	0.8%	7.1%	0.0%	1.4%	8.3%	0.0%	1.7%	6.0%	0.0%	3.2%	30.2%	2.7%
Hypertension		0.0%	23.3%	80.0%	0.0%	23.5%	100.0%	0.0%	29.6%	71.4%	0.0%	23.7%	16.7%	0.0%	24.8%	54.0%	0.0%	38.4%	75.5%	18.1%
Obesity		0.0%	1.2%	80.0%	0.4%	2.0%	0.0%	0.6%	1.4%	0.0%	1.1%	6.5%	8.3%	3.4%	8.4%	12.0%	8.2%	25.8%	41.7%	13.1%
Mental Health																				
Anxiety/Phobias		0.0%	15.1%	80.0%	0.0%	9.4%	50.0%	0.0%	10.5%	42.9%	0.0%	12.5%	58.3%	0.0%	13.8%	70.0%	0.0%	16.1%	37.9%	8.3%
Depression		0.0%	31.4%	100.0%	0.0%	22.1%	50.0%	0.0%	16.1%	92.9%	0.0%	23.7%	83.3%	0.0%	23.9%	76.0%	0.0%	28.6%	52.2%	13.8%
Learning Disability		0.0%	2.3%	0.0%	0.0%	2.7%	50.0%	0.0%	2.8%	78.6%	0.0%	2.5%	66.7%	0.0%	1.9%	52.0%	0.0%	1.9%	20.2%	2.0%
Dementia		0.0%	0.0%	0.0%	0.0%	2.0%	100.0%	0.0%	1.4%	85.7%	0.0%	0.4%	75.0%	0.0%	0.9%	64.0%	0.0%	1.2%	25.6%	2.0%
Other Characteristics																				
Housebound (eFI)		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.1%	0.9%	6.2%	0.6%
Social Vulnerability (eFI)		0.3%	3.5%	20.0%	0.3%	2.0%	0.0%	0.5%	1.4%	14.3%	0.8%	1.4%	8.3%	0.7%	2.0%	14.0%	1.2%	5.5%	21.0%	3.5%
History of Smoking (Tw...		0.2%	1.2%	0.0%	0.5%	2.0%	0.0%	0.8%	3.0%	0.0%	2.6%	5.3%	0.0%	3.1%	8.5%	12.0%	6.3%	19.0%	25.0%	9.8%
Not Fit for Work (In Year)		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.3%	0.4%	0.0%	1.9%	1.3%	4.0%	7.4%	11.5%	10.4%	6.1%
On a Waiting List		0.1%	0.0%	0.0%	0.4%	0.7%	0.0%	0.9%	0.3%	0.0%	1.5%	2.7%	8.3%	2.3%	1.7%	4.0%	10.3%	12.8%	23.5%	8.1%

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

# Matrix Data - Health Segment & Deprivation

Life Course Segment		1 - Healthy				2 - Living With Illness				3 - Lower Complexity				4 - Advanced Disease & Complexity				5 - EoL, Frailty & Dementia			Grand Total	
Deprivation		Low Deprivation	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivation		
Overall Population Measures																						
Population		2,354	9,472	1,691	15	1,547	6,196	973	12	919	3,844	671		330	1,617	307		77	376	65	30,472	
Age		28	25	22	25	44	41	39	35	57	51	49	44	59	52	52	34	71	71	70	37	
Male %		55.1%	55.0%	56.0%	46.7%	48.4%	48.3%	49.5%	50.0%	48.2%	42.8%	41.7%	75.0%	46.4%	47.6%	47.2%	50.0%	42.9%	37.8%	29.2%	50.3%	
IMD		9.1	5.5	2.8		9.1	5.5	2.8		9.2	5.5	2.8		9.1	5.4	2.7		9.2	5.5	2.8	5.8	
% BAME (where recorded)		34%	41%	43%	13%	29%	34%	37%	25%	22%	28%	30%	50%	17%	20%	23%	50%	17%	12%	20%	34%	
Multimorbidity (acute & chronic)		0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	2.3	2.3	2.4	2.0	4.7	4.9	5.0	6.0	4.7	6.1	6.5	1.1	
Finance and Activity Measures																						
Spend		Total	£0.4M	£1.7M	£0.3M	£0.0M	£0.7M	£2.7M	£0.5M	£0.0M	£1.0M	£3.7M	£0.6M	£0.0M	£0.9M	£4.4M	£0.7M	£0.0M	£0.4M	£2.4M	£0.5M	£21.1M
PPPY - Total			£180	£183	£184	£280	£446	£435	£533	£536	£1,077	£971	£957	£830	£2,789	£2,717	£2,383	£221	£5,402	£6,420	£7,115	£692
Acute Elective			£63	£54	£58	£16	£194	£160	£241	£283	£487	£424	£413	£0	£883	£856	£665	£0	£1,159	£1,496	£1,183	£238
Acute Non-Elective			£57	£70	£69	£237	£123	£150	£166	£96	£399	£344	£333	£682	£1,418	£1,240	£1,167	£0	£3,853	£4,398	£5,391	£303
GP Encounters			£58	£56	£54	£26	£121	£117	£120	£157	£178	£185	£189	£148	£257	£250	£263	£221	£329	£417	£406	£117
Community			£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
Mental Health			£2	£2	£3	£0	£5	£7	£6	£0	£13	£19	£21	£0	£226	£347	£270	£0	£61	£107	£115	£31
Social Care			£0	£0	£0	£0	£3	£0	£0	£0	£0	£0	£0	£0	£4	£25	£18	£0	£0	£3	£20	£2
GP PPPY			10	10	10	5	21	21	21	30	31	33	34	23	44	44	47	42	58	73	73	21
Beddays PPPY - Acute EM			0	0	0	0	0	0	0	0	1	1	1	0	2	3	3	0	7	8	11	1
Physical Health																						
Diabetes			0.0%	0.0%	0.0%	0.0%	8.0%	8.0%	7.5%	8.3%	33.7%	30.2%	35.9%	0.0%	43.9%	38.7%	40.4%	50.0%	42.9%	51.6%	44.6%	11.7%
COPD			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.4%	2.6%	2.5%	0.0%	18.5%	18.7%	21.8%	50.0%	19.5%	20.7%	32.3%	2.2%
Chronic Respiratory Dis...			0.0%	0.0%	0.0%	0.0%	0.2%	0.1%	0.1%	0.0%	3.4%	3.3%	3.3%	0.0%	21.2%	21.0%	25.7%	50.0%	26.0%	25.5%	35.4%	2.7%
Hypertension			0.0%	0.0%	0.0%	0.0%	18.4%	15.4%	15.3%	8.3%	51.3%	44.1%	44.6%	50.0%	63.3%	57.6%	55.0%	0.0%	53.2%	72.6%	72.3%	18.1%
Obesity			0.0%	0.0%	0.0%	0.0%	15.9%	17.3%	18.4%	16.7%	25.2%	28.9%	32.5%	25.0%	31.8%	32.7%	34.5%	0.0%	33.8%	41.0%	36.9%	13.1%
Mental Health																						
Anxiety/Phobias			0.0%	0.0%	0.0%	0.0%	2.3%	3.3%	3.7%	0.0%	21.4%	26.6%	27.1%	50.0%	25.5%	33.1%	30.3%	50.0%	23.4%	22.1%	27.7%	8.3%
Depression			0.0%	0.0%	0.0%	0.0%	7.6%	11.5%	12.2%	16.7%	31.7%	39.7%	40.5%	50.0%	32.7%	45.0%	41.0%	100.0%	27.3%	37.5%	43.1%	13.8%
Learning Disability			0.0%	0.0%	0.0%	0.0%	0.2%	0.4%	0.4%	0.0%	1.0%	1.5%	1.5%	0.0%	15.2%	19.9%	22.5%	0.0%	5.2%	10.1%	16.9%	2.0%
Dementia			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.8%	21.0%	21.5%	50.0%	9.1%	29.8%	27.7%	2.0%
Other Characteristics																						
Housebound (eFI)			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.9%	4.8%	6.5%	0.0%	11.7%	16.8%	15.4%	0.6%
Social Vulnerability (eFI)			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	9.7%	10.6%	25.0%	15.8%	17.8%	21.5%	0.0%	15.6%	28.2%	33.8%	3.5%
History of Smoking (Tw...			0.0%	0.0%	0.0%	0.0%	11.0%	15.6%	19.7%	25.0%	13.6%	20.4%	24.7%	0.0%	15.2%	23.7%	23.1%	50.0%	6.5%	15.4%	29.2%	9.8%
Not Fit for Work (In Year)			0.0%	0.0%	0.0%	0.0%	8.1%	11.7%	13.3%	8.3%	6.6%	12.2%	12.8%	25.0%	7.3%	10.1%	11.4%	100.0%	3.9%	7.2%	7.7%	6.1%
On a Waiting List			3.3%	4.2%	4.3%	0.0%	7.9%	7.7%	7.2%	8.3%	11.2%	13.1%	13.3%	0.0%	20.0%	19.5%	19.9%	0.0%	9.1%	21.0%	20.0%	8.1%

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		Bennetts End Surgery				Everest House Surgery				Grand Total
Deprivation		Low Deprivation	Middle Deprivation	High Deprivation	Not known	Low Deprivation	Middle Deprivation	High Deprivation	Not known	
Overall Population Measures										
Population		3,443	11,104	1,882	14	1,784	10,401	1,825	19	30,472
Age		40	37	35	35	42	37	34	29	37
Male %		50.3%	50.5%	50.4%	64.3%	52.9%	49.6%	50.6%	42.1%	50.3%
IMD		9.1	5.5	2.8		9.3	5.5	2.8		5.8
% BAME (where recorded)		32%	37%	40%	56%	23%	31%	33%	12%	34%
Multimorbidity (acute & chronic)		0.9	1.0	1.1	0.9	1.2	1.2	1.2	0.8	1.1
Finance and Activity Measures										
Spend	Total	£2.1M	£7.8M	£1.3M	£0.0M	£1.3M	£7.2M	£1.3M	£0.0M	£21.1M
	PPPY - Total	£623	£698	£711	£36	£726	£694	£728	£731	£692
Acute Elective		£233	£243	£240	£0	£265	£229	£240	£192	£238
Acute Non-Elective		£255	£302	£324	£0	£324	£310	£329	£392	£303
GP Encounters		£114	£119	£116	£36	£116	£116	£122	£148	£117
Community		£0	£0	£0	£0	£0	£0	£0	£0	£0
Mental Health		£19	£32	£30	£0	£21	£37	£33	£0	£31
Social Care		£2	£2	£0	£0	£0	£1	£3	£0	£2
GP PPPY		18	19	19	6	23	23	24	27	21
Beddays PPPY - Acute EM		0	1	1	0	1	1	1	0	1
Physical Health										
Diabetes		12.0%	12.4%	13.7%	0.0%	11.1%	10.5%	11.5%	10.5%	11.7%
COPD		1.6%	2.2%	3.1%	0.0%	2.5%	2.2%	2.5%	5.3%	2.2%
Chronic Respiratory Dis...		1.9%	2.6%	3.7%	0.0%	3.2%	2.7%	3.1%	5.3%	2.7%
Hypertension		15.9%	14.9%	14.7%	0.0%	25.7%	21.2%	21.2%	15.8%	18.1%
Obesity		11.1%	12.7%	13.2%	0.0%	12.8%	14.0%	15.3%	15.8%	13.1%
Mental Health										
Anxiety/Phobias		5.5%	7.4%	7.1%	14.3%	8.0%	9.8%	10.7%	5.3%	8.3%
Depression		8.6%	11.9%	11.9%	14.3%	13.6%	17.2%	17.6%	21.1%	13.8%
Learning Disability		1.2%	1.9%	2.0%	0.0%	1.3%	2.2%	3.1%	0.0%	2.0%
Dementia		1.0%	1.8%	2.2%	7.1%	1.3%	2.4%	2.4%	0.0%	2.0%
Other Characteristics										
Housebound (eFI)		0.6%	1.0%	1.2%	0.0%	0.1%	0.3%	0.4%	0.0%	0.6%
Social Vulnerability (eFI)		2.0%	3.0%	3.3%	0.0%	3.2%	4.1%	5.3%	5.3%	3.5%
History of Smoking (Tw...		6.9%	11.1%	12.9%	7.1%	6.2%	9.2%	11.2%	15.8%	9.8%
Not Fit for Work (In Year)		4.4%	6.3%	7.0%	7.1%	3.4%	6.5%	6.7%	15.8%	6.1%
On a Waiting List		6.5%	7.8%	7.1%	0.0%	8.5%	8.8%	9.4%	5.3%	8.1%

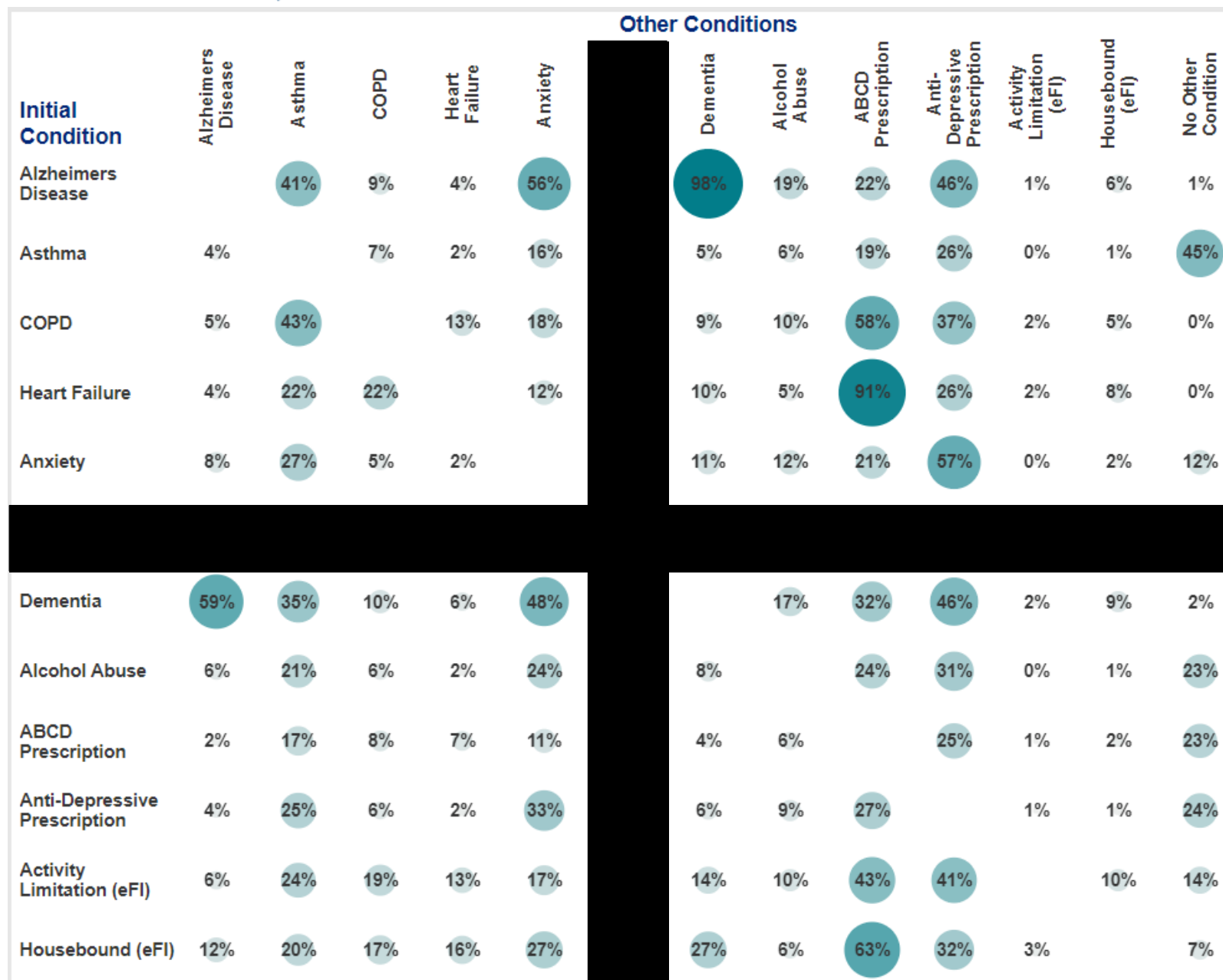
This detailed table is offering actionable insight across the PCN's population for each Practice and where their populations are in terms of a High, Medium, or Low deprivation ranking; deprivation is levied from the IMD 2019 scoring per LSOA, and is applied for every individual registered within the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

# Bubble Matrix - Conditions

x% also have

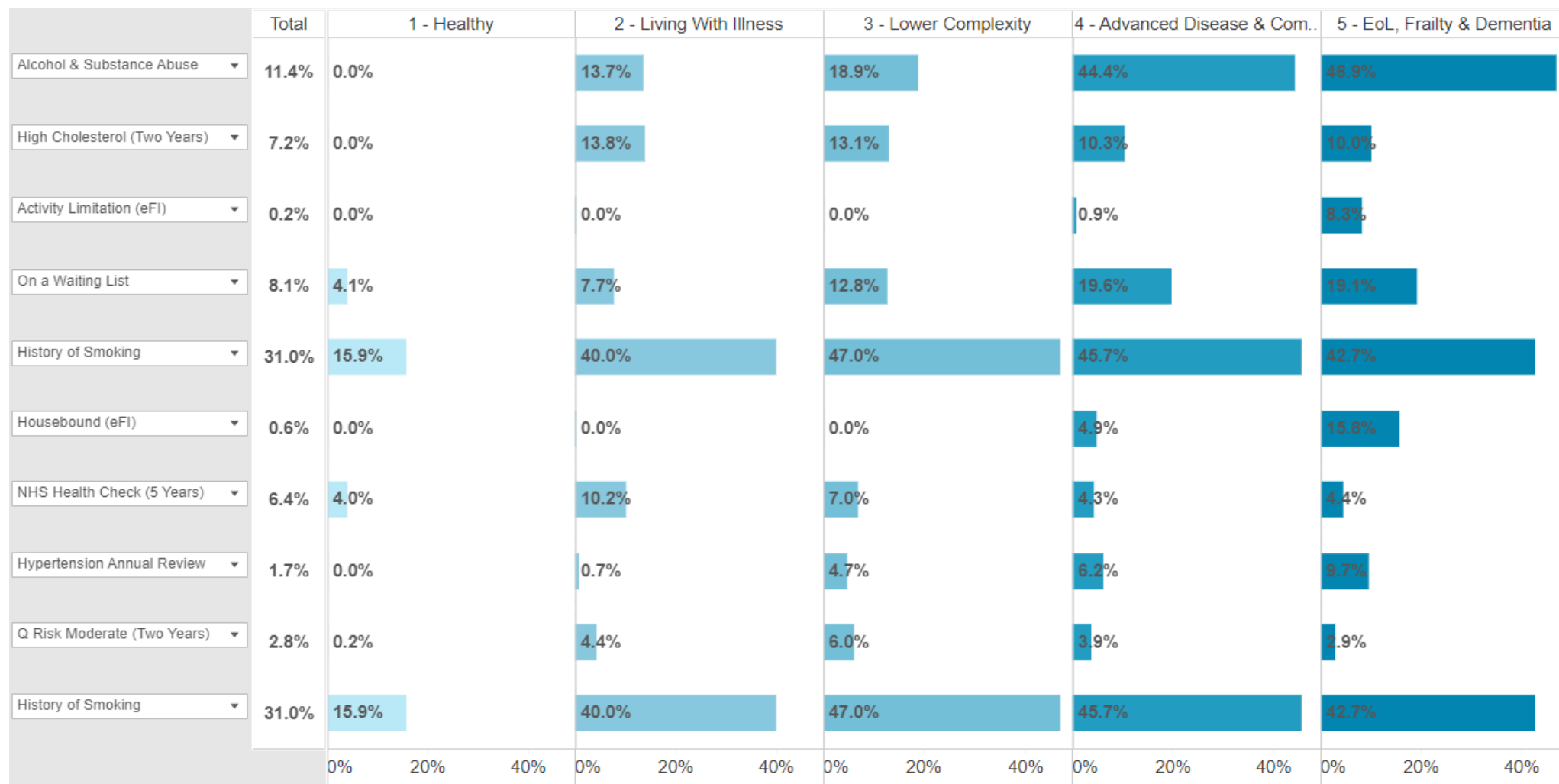


For people with this condition



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

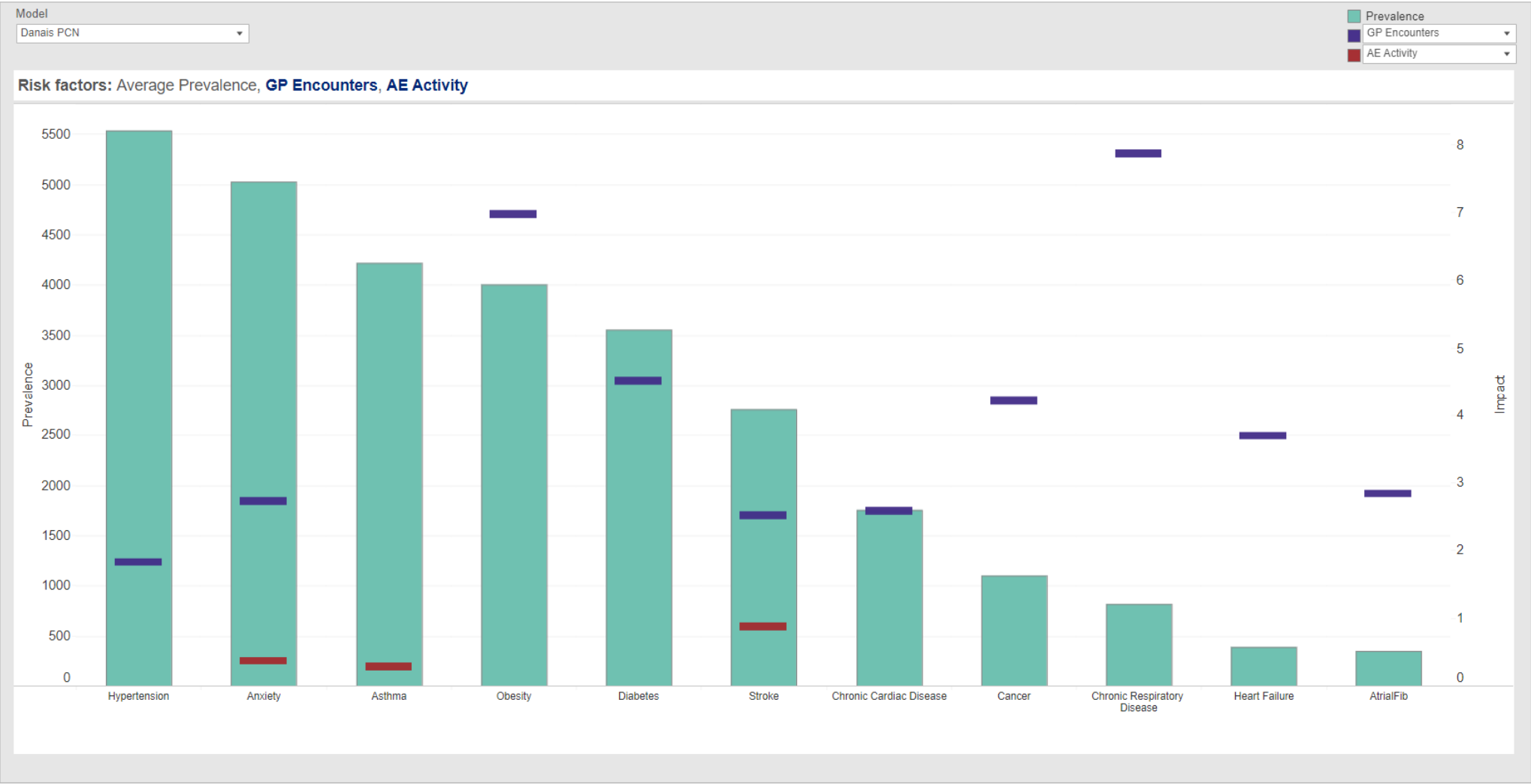
# Bio-Psycho-Social Indicators - Example



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

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

# Risk Modelling - Prevalence against GP Activity & A&E



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



## Cancer Screening

	Period	HERTFORDSHIRE AND WEST ESSEX	DANAIS PCN	BENNETTS END SURGERY	EVEREST HOUSE SURGERY
Women, aged 25-49, with a record of cervical screening in the last 3.5 yrs (denominator includes PCAs)	2020/21	73.3	73	76.7	68.6
Women, aged 50-64, with a record of cervical screening in the last 5.5 yrs (denominator includes PCAs)	2020/21	78.2	77.1	82.4	70.6
Persons, 25-49, attending cervical screening within target period (3.5 year coverage, %)	2020/21	73	73.8	76.8	70.2
Persons, 50-64, attending cervical screening within target period (5.5 year coverage, %)	2020/21	77	78.2	82.3	73
Persons, 50-70, screened for breast cancer in last 36 months (3 year coverage, %)	2020/21	63.9	72.5	75.7	68.6
Persons, 50-70, screened for breast cancer within 6 months of invitation (Uptake, %)	2020/21	61.3	60	17.9	69.3
Persons, 60-74, screened for bowel cancer within 6 months of invitation (Uptake, %)	2020/21	72.1	69.4	70.9	67.5
Persons, 60-74, screened for bowel cancer in last 30 months (2.5 year coverage, %)	2020/21	68.8	66.8	67.5	66

Similar Significantly Worse Significantly Better

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## Mortality

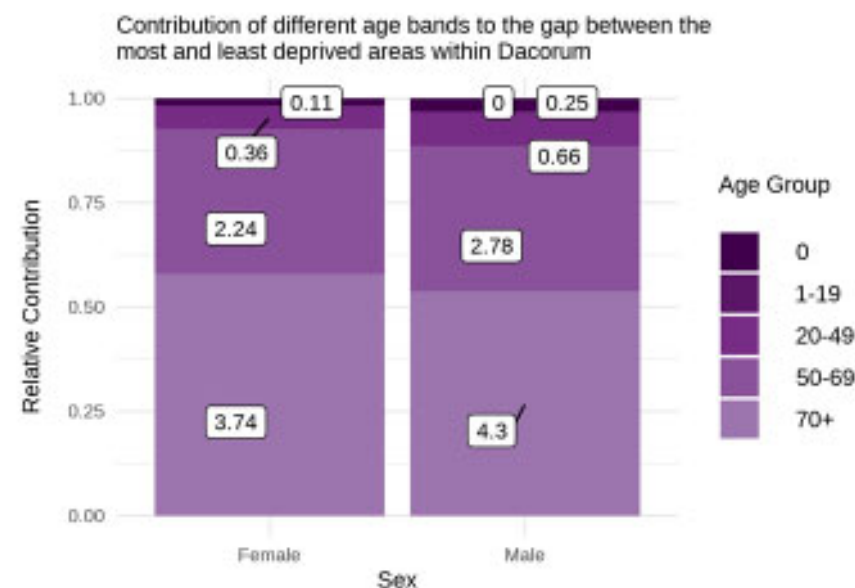
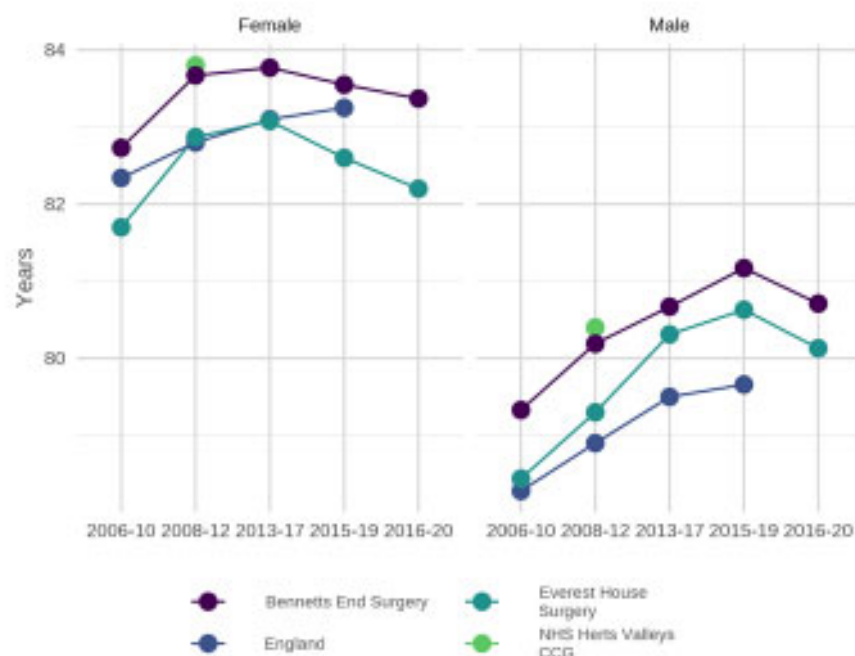
	Period	Hertfordshire CCGs	NHS HERTFORDSHIRE AND WEST ESSEX ICB - 06N	DAN AIS PCN
Percentage of deaths that occur at home (All age)	2021	25.3	23.9	23.8
PYLL - Neoplasms	2021	505	498.3	588.1
PYLL - Diseases of the circulatory system	2021	737.5	690.5	1095.8
PYLL - All Cause	2021	1537.7	1496.4	2446.7
Premature Mortality - Respiratory Disease	2021	19.2	19	
Premature Mortality - Liver Disease	2021	14.6	14.4	
Premature Mortality - Cardiovascular Disease	2021	53.8	51.4	84.1
Premature Mortality - Cancer	2021	98.5	97.1	111.7
Premature Mortality - All Cause	2021	269.6	262.3	325.7

■ Similar 
 ■ Significantly Worse 
 ■ Significantly Better

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## Life Expectancy



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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Care System



Hertfordshire and  
West Essex  
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