Hertfordshire and West Essex Integrated Care System

NHS Hertfordshire and West Essex Integrated Care Board

# Primary Care Networks
# Overview Pack

# LOUGHTON BUCKHURST HILL & CHIGWELL 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

NHS Hertfordshire and West Essex Integrated Care Board


**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.**

Source: HWE PHM Team, Cerner, England.nhs.uk

# Key Messages

Hertfordshire and West Essex Integrated Care Board

**Loughton, Buckhurst Hill and Chigwell PCN's (LBC) poplulation profile is slightly older than the England profile. It has pockets of its population living within areas of deprivation whilst also having some within areas of affluence.**

**LBC's wider determinants are in line with the ICB average; however as highlighted in the PAPI tool there are pockets of deprivation that are offset by pockets of affluence when looking at LBC as a whole.**

**The expected population growth for the District adjusted for the Local Authority forecasts taking into account of building shows continued increases between 2023 through to 2034 with the greastedt increases forecast between 2023/25, which will bring additional demands for healthcare.**

**Population projections show an expected increase in the number of people over 65 from ~27k to ~36k form 2022 to 2042.**

**Data from the ICB model highlights AF and Hearts disease with higher prevalence.**

**When comparing the rates per 1,000 population of chronic ambulatory care conditions between places, the West Essex place has a slightly lower rate than the ICB.**
**Within West Essex Place, LBC has a lower rate per 1,000 population.**

**For LBC the highest volume and cost for chronic ACSs is within the End of Life, Severe Frailty and Dementia segment in the over 65 age group and this is driven by admissions related to Heart Failure.**

**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 LBC 8% of the population in the EoL, severe frailty and severe dementia segment live within the 4 most deprived deciles.**

**Within this segment we can see the presence of Chronic Cardiac Disease and heart disease being highlighted which chimes with the reason for admission within analysis for ACS conditions.**

**Estimated prevalance for Heart Failure is higher than that currently recorded within LBC. Within Ardens Manager there are case finding searches that can support PCNs with identification.**

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

NHS Hertfordshire and West Essex Integrated Care Board

## Total Population

LOUGHTON BUCKHURST HILL & CHIGWELL PCN

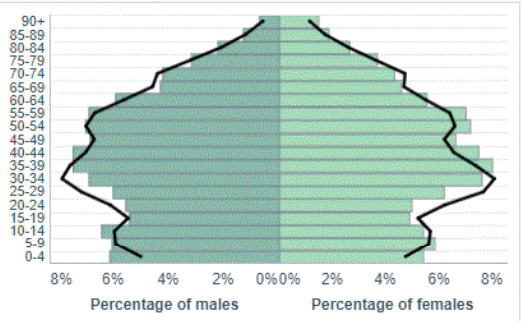
Snapshot as at: 30/06/2021

| Registered population | | Demographics | | | | Prevalence | | Acute utilisation | | Covid | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| % of total | 100.0% | % White | 66.3% | % IMD top | 2.9% | % with 1+ conditions | 26.5% | % of annual activity (total 134,703) | 100.0% | % one or more at risk conditions | 16.1% |
| % of annual change | 0.6% | % BAME | 15.2% | % IMD bottom | 33.8% | % with 5+ conditions | 3.3% | % of annual cost (total £32M) | 100.0% | % two or more at risk conditions | 6.5% |

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

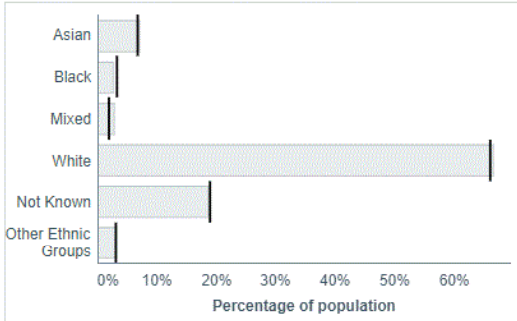
Choose benchmark: England

### Population pyramid



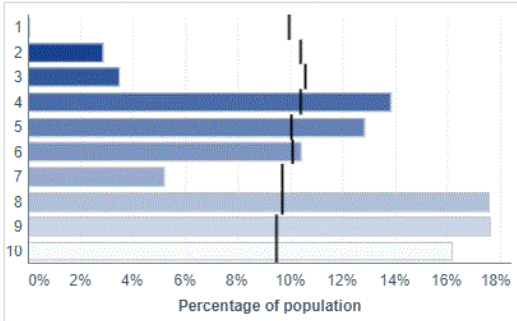

Black line represents the **England** average

### Population proportion by ethnic category




Black line represents the **England** average

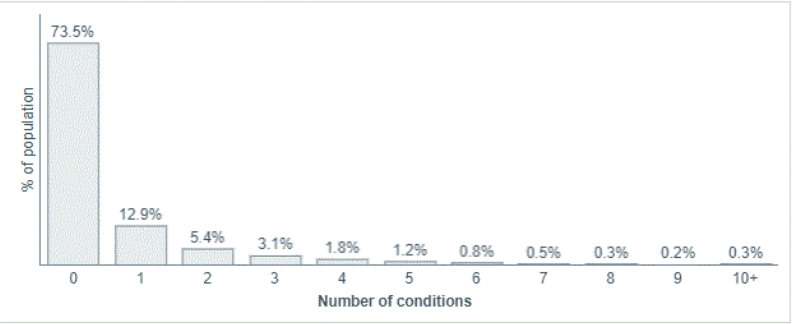
### Population proportion by IM Deprivation decile




1 = most deprived 10%, 10 = least deprived 10%

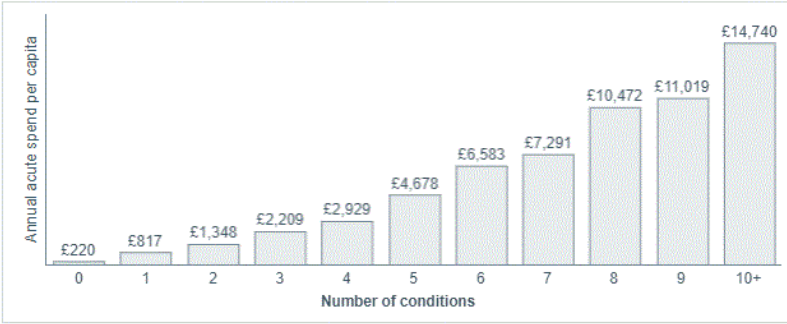
## Prevalence - Snapshot as at: 30/06/2021

### 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.**
**Loughton, Buckhurst Hill and Chigwell have a combination of population living within pockets of deprivation and pockets of affluence. It's poplulation profile is slightly older than that of England.**

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

# PCN Demographics - NHS England

NHS Hertfordshire and West Essex Integrated Care Board

## LTC

LOUGHTON BUCKHURST HILL & CHIGWELL PCN

Snapshot as at: 30/06/2021

| Registered population | | Demographics | | | | Prevalence | | Acute utilisation | | Covid | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| % of total | 22.7% | % White | 80.8% | % IMD top | 3.0% | % with 1+ conditions | 100.0% | % of annual activity (total 60,408) | 44.8% | % one or more at risk conditions | 51.9% |
| % of annual change | 4.6% | % BAME | 14.3% | % IMD bottom | 31.6% | % with 5+ conditions | 6.0% | % of annual cost (total £13M) | 40.8% | % two or more at risk conditions | 17.4% |

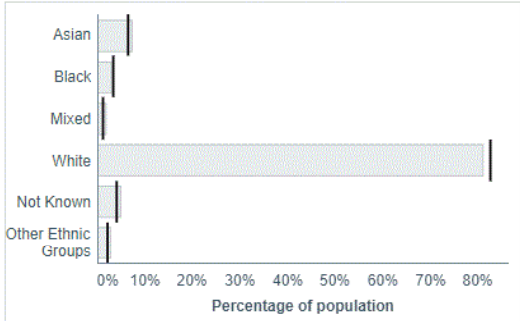
## Population demographics - Snapshot as at: 30/06/2021

Choose benchmark: England

### Population pyramid

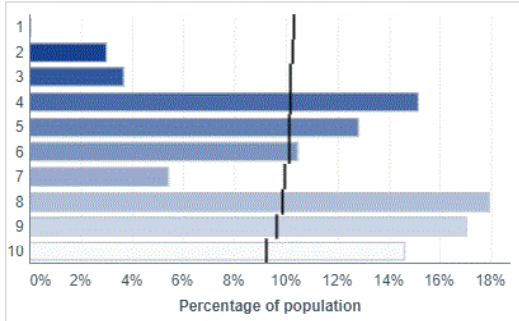

Black line represents the **England** average

### Population proportion by ethnic category




Black line represents the **England** average

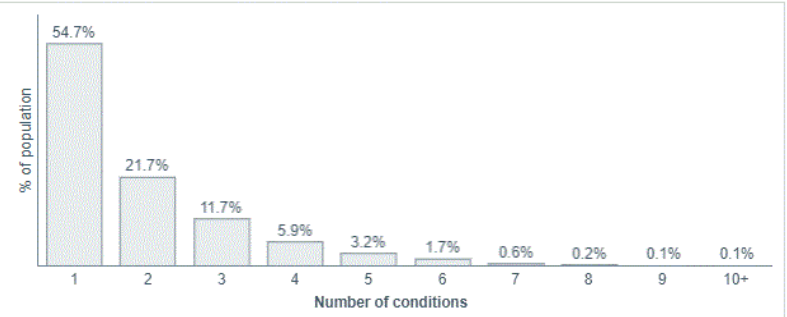
### Population proportion by IM Deprivation decile




1 = most deprived 10%, 10 = least deprived 10%

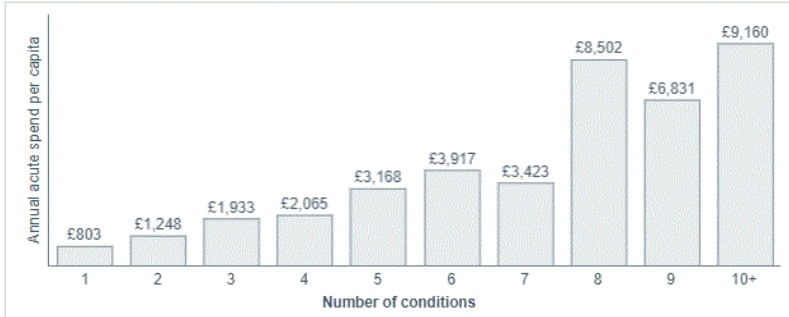
## Prevalence - Snapshot as at: 30/06/2021

### 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 22.7% of the population have at least 1 Long Term Condition. 6.0% have more than 5 LTCs compared to 5.6% for the ICB.**

**The population pyramid shows a similar profile to England for those living with long term .**

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

# Practice Indicators - Triggers and Levels

NHS Hertfordshire and West Essex Integrated Care Board

| Practice Indicators for | LOUGHTON BUCKHURST HILL & CHIGWELL PCN | CHIGWELL MEDICAL CENTRE | | | FOREST PRACTICE | | | KINGS MEDICAL CENTRE | | | LOUGHTON HEALTH CENTRE | | | PALMERSTON ROAD SURGERY | | | THE LOUGHTON SURGERY | | | THE RIVER 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 Level | Latest Score | Time Period | Trigger Level | Latest Score | Time Period | Trigger Level | Latest Score | Time Period | Trigger Level |
| Clinical Diagnosis | Detection rate Cancer | 0.621 | 2020/21 | No Trigger | 0.441 | 2020/21 | No Trigger | 0.677 | 2020/21 | No Trigger | 0.375 | 2020/21 | Level 1 | 0.308 | 2020/21 | No Trigger | 0.525 | 2020/21 | No Trigger | 0.533 | 2020/21 | No Trigger |
| Coronary heart disease | % AF anticoagulation therapy CHADS2-VASc score >1 | 89.3 | 2020/21 | Positive | 93 | 2020/21 | Positive | 88.6 | 2020/21 | Positive | 81 | 2020/21 | Positive | 96.3 | 2020/21 | Positive | 89.1 | 2020/21 | Positive | 91.1 | 2020/21 | Positive |
| | % CHD aged <=79 BP reading 140/90mmHg or less | 76.6 | 2020/21 | Level 1 | 51.4 | 2020/21 | Level 1 | 74.6 | 2020/21 | Level 1 | 42.4 | 2020/21 | Level 1 | 63.8 | 2020/21 | Level 1 | 66.2 | 2020/21 | Level 1 | 69.5 | 2020/21 | Level 1 |
| | % CHD cholesterol 5 mmol/l or less | 54.6 | 2020/21 | No Trigger | 48.6 | 2021/22 | No Trigger | 68.9 | 2021/22 | No Trigger | 61.4 | 2021/22 | No Trigger | 62.2 | 2021/22 | No Trigger | 66.5 | 2021/22 | No Trigger | 65.9 | 2021/22 | No Trigger |
| | % hypertension aged <=79 BP reading 140/90mmHg or less | 56.2 | 2020/21 | Level 1 | 50.7 | 2020/21 | Level 1 | 58.3 | 2020/21 | Level 1 | 31.3 | 2020/21 | Level 2 | 58.2 | 2020/21 | Level 1 | 69.7 | 2020/21 | Level 1 | 64.8 | 2020/21 | Level 1 |
| Diabetes | % Diabetes aged >=40 years no CVD history without moderate or severe frailty treated with stati | 64.9 | 2020/21 | Level 2 | 70.2 | 2020/21 | Level 1 | 74.8 | 2020/21 | Level 1 | 66.1 | 2020/21 | Level 1 | 82.7 | 2020/21 | Level 1 | 66.4 | 2020/21 | Level 1 | 87.5 | 2020/21 | Level 1 |
| | % Diabetes without moderate or severe frailty BP 140/80 mmHg or less | 50.6 | 2020/21 | Level 1 | 39.8 | 2020/21 | Level 1 | 51.6 | 2020/21 | Level 1 | 40.9 | 2020/21 | Level 1 | 72.4 | 2020/21 | Level 1 | 46.6 | 2020/21 | Level 1 | 48.3 | 2020/21 | Level 1 |
| | % diabetes without moderate or severe frailty IFCC-HbA1c is 58 mmol/mol or less | 45.9 | 2020/21 | Level 2 | 44.8 | 2020/21 | Level 2 | 67.5 | 2020/21 | Level 1 | 48.2 | 2020/21 | Level 2 | 61.4 | 2020/21 | Level 1 | 42.2 | 2020/21 | Level 2 | 50.3 | 2020/21 | Level 1 |
| Exception Rating | Overall Personalised Care Adjustment Rate | 0.046 | 2020/21 | No Trigger | 0.035 | 2020/21 | No Trigger | 0.035 | 2020/21 | No Trigger | 0.032 | 2020/21 | No Trigger | 0.03 | 2020/21 | No Trigger | 0.057 | 2020/21 | No Trigger | 0.047 | 2020/21 | No Trigger |
| Medicines Management | % antibiotics Co-amoxiclav, Cephalosporins, Quinolones | 9.4 | 2021/22 Q4 | No Trigger | 9.6 | 2021/22 Q4 | No Trigger | 6.8 | 2021/22 Q4 | No Trigger | 13.1 | 2021/22 Q4 | Level 1 | 9.9 | 2021/22 Q4 | No Trigger | 9.7 | 2021/22 Q4 | No Trigger | 8.9 | 2021/22 Q4 | No Trigger |
| | % Naproxen and Ibuprofen | 74.8 | 2021/22 Q4 | No Trigger | 86.3 | 2021/22 Q4 | No Trigger | 82.8 | 2021/22 Q4 | No Trigger | 79.1 | 2021/22 Q4 | No Trigger | 79.7 | 2021/22 Q4 | No Trigger | 75.2 | 2021/22 Q4 | No Trigger | 88.7 | 2021/22 Q4 | Positive |
| | Antibacterial Items/Star Pu | 0.738 | 2021/22 Q4 | Positive | 0.966 | 2021/22 Q4 | Positive | 0.665 | 2021/22 Q4 | Positive | 1.02 | 2021/22 Q4 | Positive | 0.648 | 2021/22 Q4 | Positive | 0.873 | 2021/22 Q4 | Positive | 0.792 | 2021/22 Q4 | Positive |
| | Hypnotics ADQ/Star Pu | 0.687 | 2021/22 Q4 | No Trigger | 0.546 | 2021/22 Q4 | No Trigger | 0.419 | 2021/22 Q4 | No Trigger | 0.467 | 2021/22 Q4 | No Trigger | 0.393 | 2021/22 Q4 | No Trigger | 0.439 | 2021/22 Q4 | No Trigger | 0.771 | 2021/22 Q4 | No Trigger |
| | Oral NSAIDS ADQs/STAR-PU | 2.305 | 2021/22 Q4 | No Trigger | 1.932 | 2021/22 Q4 | No Trigger | 1.335 | 2021/22 Q4 | Positive | 1.388 | 2021/22 Q4 | Positive | 1.04 | 2021/22 Q4 | Positive | 2.842 | 2021/22 Q4 | No Trigger | 1.956 | 2021/22 Q4 | No Trigger |
| Mental Health | % first choice generic SSRIs | 64.7 | 2021/22 Q4 | No Trigger | 74 | 2021/22 Q4 | No Trigger | 67.6 | 2021/22 Q4 | No Trigger | 68.3 | 2021/22 Q4 | No Trigger | 70.7 | 2021/22 Q4 | No Trigger | 79.5 | 2021/22 Q4 | Positive | 70.9 | 2021/22 Q4 | No Trigger |
| | % MH comprehensive care plan | 62 | 2020/21 | Level 1 | 38.2 | 2020/21 | Level 1 | 20.4 | 2020/21 | Level 1 | 26.9 | 2020/21 | Level 1 | 55.6 | 2020/21 | Level 1 | 91.8 | 2020/21 | No Trigger | 78.8 | 2020/21 | Level 1 |
| | % SMI alcohol record | 65.9 | 2020/21 | Level 1 | 41.7 | 2020/21 | Level 1 | 9.8 | 2020/21 | Level 2 | 13.5 | 2020/21 | Level 2 | 7.4 | 2020/21 | Level 2 | 48.3 | 2020/21 | Level 1 | 91.7 | 2019/20 | No Trigger |
| | % SMI BP record | 76.5 | 2020/21 | Level 1 | 49.5 | 2020/21 | Level 1 | 54.5 | 2020/21 | Level 1 | 32.7 | 2020/21 | Level 2 | 42.9 | 2020/21 | Level 1 | 81.8 | 2020/21 | Level 1 | 65.7 | 2020/21 | Level 1 |
| | Dementia Face to Face review | 96.6 | 2020/21 | No Trigger | 43.2 | 2020/21 | Level 1 | 37.9 | 2020/21 | Level 1 | 1.4 | 2020/21 | Level 1 | 76.9 | 2020/21 | No Trigger | 53.9 | 2020/21 | Level 1 | 65.1 | 2020/21 | Level 1 |
| | Select antidepressants ADQs/STARPU | 1.074 | 2021/22 Q4 | No Trigger | 1.82 | 2021/22 Q4 | No Trigger | 1.049 | 2021/22 Q4 | No Trigger | 1.276 | 2021/22 Q4 | No Trigger | 1.062 | 2021/22 Q4 | No Trigger | 1.307 | 2021/22 Q4 | No Trigger | 1.63 | 2021/22 Q4 | No Trigger |
| Patient Experience | Confidence and trust in healthcare professional | 91.4 | 2020/21 | No Trigger | 100 | 2020/21 | Positive | 99.3 | 2020/21 | No Trigger | 93.1 | 2020/21 | No Trigger | 98.4 | 2020/21 | No Trigger | 91.9 | 2020/21 | No Trigger | 99.4 | 2020/21 | No Trigger |
| | Frequency seeing preferred GP | 37.4 | 2020/21 | No Trigger | 36.5 | 2020/21 | No Trigger | 43.6 | 2020/21 | No Trigger | 13.8 | 2020/21 | Level 1 | 80.5 | 2020/21 | Positive | 47.5 | 2020/21 | No Trigger | 65.2 | 2020/21 | No Trigger |
| | Healthcare professional treating with care and concern | 79 | 2020/21 | No Trigger | 90.8 | 2020/21 | No Trigger | 93.8 | 2020/21 | No Trigger | 89.4 | 2020/21 | No Trigger | 93.6 | 2020/21 | No Trigger | 79.2 | 2020/21 | No Trigger | 94.9 | 2020/21 | No Trigger |
| | Overall experience of your GP practice | 63.7 | 2020/21 | Level 1 | 83.9 | 2020/21 | No Trigger | 92.5 | 2020/21 | No Trigger | 69.9 | 2020/21 | No Trigger | 95.2 | 2020/21 | No Trigger | 84 | 2020/21 | No Trigger | 88.4 | 2020/21 | No Trigger |
| | Satisfaction with appointment times | 45 | 2020/21 | Level 1 | 72.8 | 2020/21 | No Trigger | 80.7 | 2020/21 | No Trigger | 46 | 2020/21 | Level 1 | 78.6 | 2020/21 | No Trigger | 64.7 | 2020/21 | No Trigger | 79 | 2020/21 | No Trigger |
| Public Health | % Child Imms DTaP/IPV/Hib/HepB (age 1 year) | 95.4 | 2020/21 | No Trigger | 93.5 | 2020/21 | Level 1 | 92 | 2020/21 | Level 1 | 87.1 | 2020/21 | Level 1 | 94 | 2020/21 | Level 1 | 91.8 | 2020/21 | Level 1 | 96.8 | 2020/21 | No Trigger |
| | % Child Imms Hib/MenC booster | 87.2 | 2020/21 | Level 1 | 93.7 | 2020/21 | Level 1 | 91.8 | 2020/21 | Level 1 | 96 | 2020/21 | No Trigger | 94.8 | 2020/21 | Level 1 | 91.8 | 2020/21 | Level 1 | 92.3 | 2020/21 | Level 1 |
| | % Child Imms MMR (Age 2 yrs) | 87.2 | 2020/21 | Level 1 | 91.8 | 2020/21 | Level 1 | 89.4 | 2020/21 | Level 1 | 94 | 2020/21 | Level 1 | 93.1 | 2020/21 | Level 1 | 92.4 | 2020/21 | Level 1 | 87.2 | 2020/21 | Level 1 |
| | % Child Imms PCV Booster | 88.1 | 2020/21 | Level 1 | 92.4 | 2020/21 | Level 1 | 90.6 | 2020/21 | Level 1 | 96 | 2020/21 | No Trigger | 91.4 | 2020/21 | Level 1 | 91.1 | 2020/21 | Level 1 | 89.7 | 2020/21 | Level 1 |
| | Cervical Screening | 71.3 | 2021/22 Q4 | Level 1 | 71.3 | 2021/22 Q4 | Level 1 | 75.4 | 2021/22 Q4 | Level 1 | 72.2 | 2021/22 Q4 | Level 1 | 76.3 | 2021/22 Q4 | Level 1 | 75 | 2021/22 Q4 | Level 1 | 77.6 | 2021/22 Q4 | Level 1 |
| Respiratory | % Asthma review in last 6 mths | 16.2 | 2020/21 | Level 1 | 6.5 | 2020/21 | Level 1 | 80 | 2020/21 | No Trigger | 13.6 | 2020/21 | Level 1 | 76.1 | 2020/21 | No Trigger | 95.2 | 2020/21 | No Trigger | 27.6 | 2020/21 | Level 1 |
| | % Asthma spirometry and one other objective test | 0 | 2020/21 | No Data Available | 10 | 2020/21 | Level 2 | 0 | 2020/21 | Level 1 | 0 | 2020/21 | Level 2 | 0 | 2020/21 | Level 1 | 0 | 2020/21 | Level 1 | 0 | 2020/21 | Level 1 |
| | % COPD with review in last 12 mths | 11.9 | 2020/21 | Level 2 | 62 | 2020/21 | Level 1 | 50.6 | 2020/21 | Level 1 | 64.6 | 2020/21 | Level 1 | 24.4 | 2020/21 | Level 1 | 94.5 | 2020/21 | No Trigger | 19.3 | 2020/21 | Level 1 |
| | % LTC patients who smoke | 8.6 | 2020/21 | No Trigger | 15.3 | 2020/21 | No Trigger | 7.8 | 2020/21 | No Trigger | 11.7 | 2020/21 | No Trigger | 8.9 | 2020/21 | No Trigger | 12 | 2020/21 | No Trigger | 12.6 | 2020/21 | No Trigger |
| | % LTC Smoker offer support | 99.4 | 2020/21 | No Trigger | 61.9 | 2020/21 | Level 1 | 70.2 | 2020/21 | Level 1 | 100 | 2020/21 | No Trigger | 94.9 | 2020/21 | Level 1 | 95.2 | 2020/21 | Level 1 | 80.7 | 2020/21 | Level 1 |
| | % Smoking patients over 15 recorded | 75.3 | 2020/21 | No Trigger | 72.9 | 2021/22 | No Trigger | 77.2 | 2021/22 | No Trigger | 69.6 | 2021/22 | No Trigger | 74.6 | 2021/22 | No Trigger | 68.3 | 2021/22 | No Trigger | 75.7 | 2021/22 | No Trigger |
| | % Smoking status recorded | 94 | 2020/21 | No Trigger | 88.7 | 2020/21 | Level 1 | 93.8 | 2020/21 | No Trigger | 89.9 | 2020/21 | Level 1 | 94.7 | 2020/21 | No Trigger | 96.1 | 2020/21 | No Trigger | 96.3 | 2020/21 | No Trigger |
| | % w. MRC dyspnoea score >=3 w. offer of referral to pulm. rehab. Clinic | 0 | 2020/21 | Level 2 | 90.5 | 2020/21 | No Trigger | 100 | 2020/21 | No Trigger | 57.1 | 2020/21 | Level 1 | 40 | 2020/21 | Level 1 | 100 | 2020/21 | No Trigger | 46.2 | 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.**

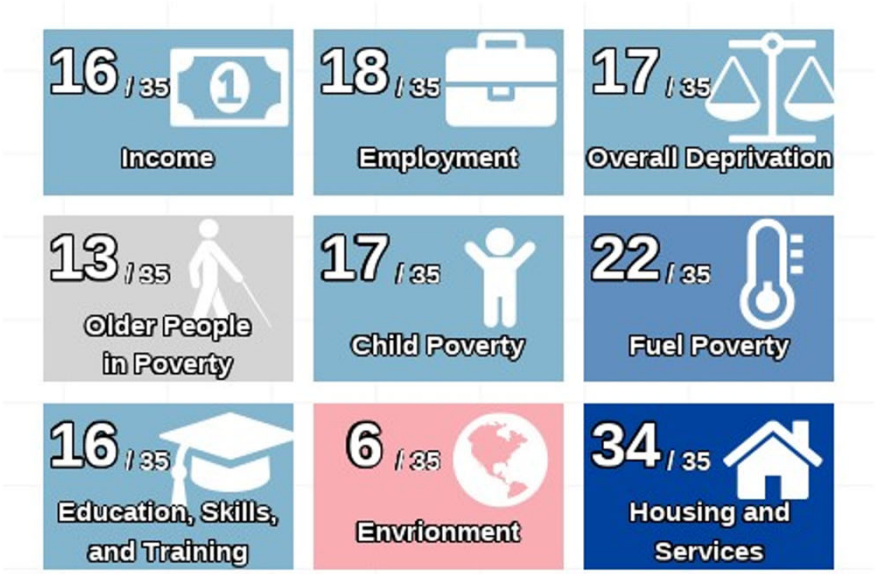
**The Practices have opportunities for every Level 1 indicated metric; however, any Level 2 indicator must be reviewed; guidance on this data set can be found in the below link, and for more up-to-date data, please log into your Ardens Manager (https://app.ardensmanager.com/).**

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

NHS Hertfordshire and West Essex Integrated Care Board

## Wider Determinants




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

In Loughton Buckhurst Hill & Chigwell PCN an estimated:

- 10.8% of children live in poverty.
- 12.6% of older people live in poverty.
- 10.6% of households live in fuel poverty.
- 7% of households are overcrowded.
- 33.1% of people aged 65 and over live alone.
- 0.6% of people cannot speak English well.
- 4.2% of working age people are claiming out of work benefits.
- 19.6% of children aged 4-5 and 33% of children aged 10-11 are overweight.

PH.Intelligence@hertfordshire.gov.uk

Hertfordshire Public Health Evidence & Intelligence Epidemiology

Hertfordshire

**The above provides a summary of the wider determinants of health for Loughton, Buckhurst Hill and Chigwell.**

**LBC's wider determinants overall are in line with the ICB average; however as highlighted in the PAPI tool there are pockets of deprivation that are offset by pockets of affluence when looking at LBC as a whole. The Environment determinant score, is very low for this PCN.**

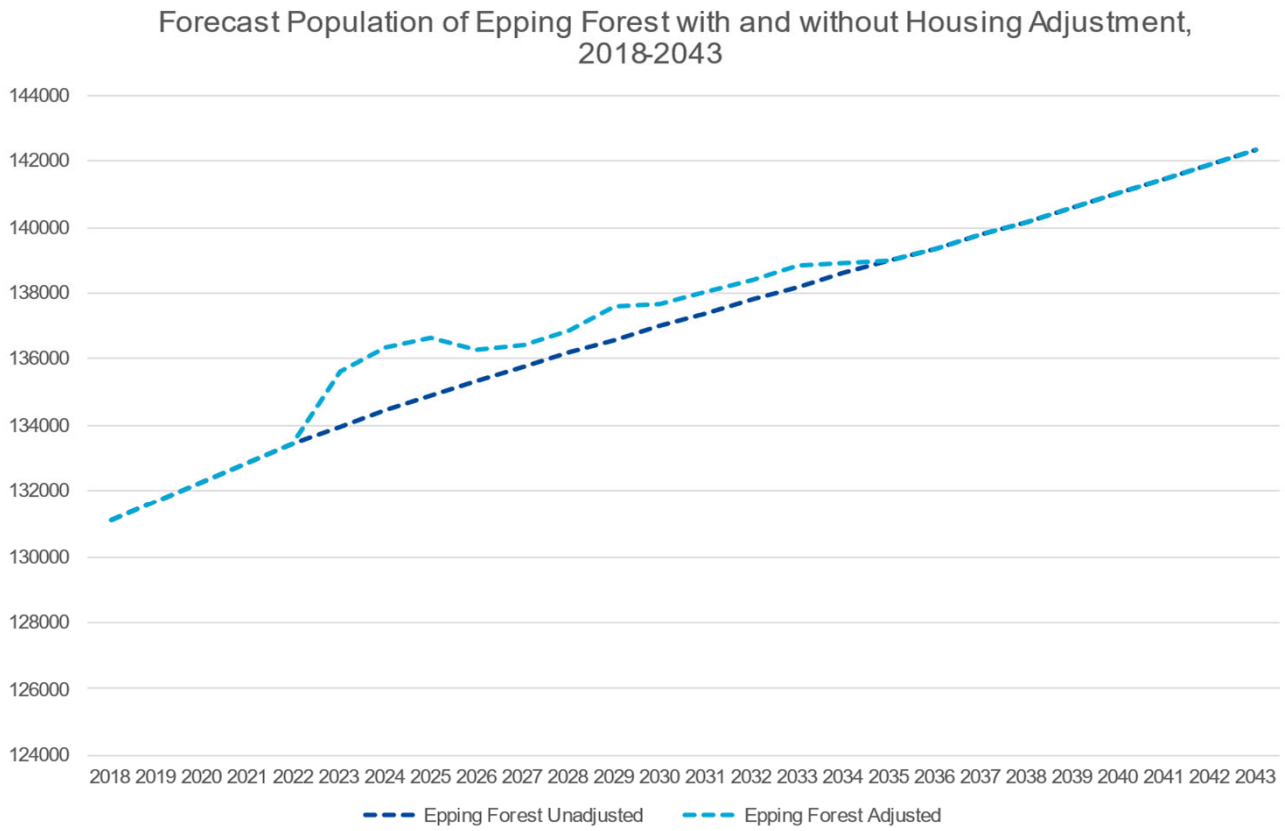
Source: Public Health Team

# Population Adjustments

Hertfordshire and West Essex Integrated Care Board

## EPPING FOREST POPULATION ADJUSTMENTS

**EPPING FOREST IS LIKELY TO SEE A SIGNIFICANT INCREASE IN POPULATION BETWEEN 20222025, BEFORE STEADYING AND INCREASING MORE MODESTLY**




| Year | Epping Forest Unadjusted | Epping Forest Adjusted | Epping Forest Net Difference |
|---|---|---|---|
| 2018 | 131,137 | 131,137 | 0 |
| 2019 | 131,721 | 131,721 | 0 |
| 2020 | 132,284 | 132,284 | 0 |
| 2021 | 132,873 | 132,873 | 0 |
| 2022 | 133,451 | 133,451 | 0 |
| 2023 | 133,970 | 135,641 | 1,671 |
| 2024 | 134,450 | 136,350 | 1,900 |
| 2025 | 134,898 | 136,678 | 1,780 |
| 2026 | 135,331 | 136,285 | 955 |
| 2027 | 135,766 | 136,447 | 681 |
| 2028 | 136,187 | 136,899 | 712 |
| 2029 | 136,604 | 137,599 | 996 |
| 2030 | 137,022 | 137,690 | 669 |
| 2031 | 137,407 | 138,043 | 636 |
| 2032 | 137,797 | 138,419 | 622 |
| 2033 | 138,204 | 138,828 | 624 |
| 2034 | 138,599 | 138,908 | 308 |
| 2035 | 138,983 | 138,983 | 0 |
| 2036 | 139,365 | 139,365 | 0 |
| 2037 | 139,757 | 139,757 | 0 |
| 2038 | 140,183 | 140,183 | 0 |
| 2039 | 140,609 | 140,609 | 0 |
| 2040 | 141,036 | 141,036 | 0 |
| 2041 | 141,470 | 141,470 | 0 |
| 2042 | 141,904 | 141,904 | 0 |
| 2043 | 142,346 | 142,346 | 0 |

Note: Unadjusted forecast refers to ONS local authority forecasts whilst adjusted refers to the ONS LA forecasts after they've been adjusted by ECC to account for housing developments listed in local plans

**The above shows the expected population growth for Epping Forest District adjusted for the Local Authority forecasts taking into account of building.**

**It shows continued increase between 2023 through to 2034 with the greastest increases forecast between 2023/25, which will bring additional demands for healthcare.**

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

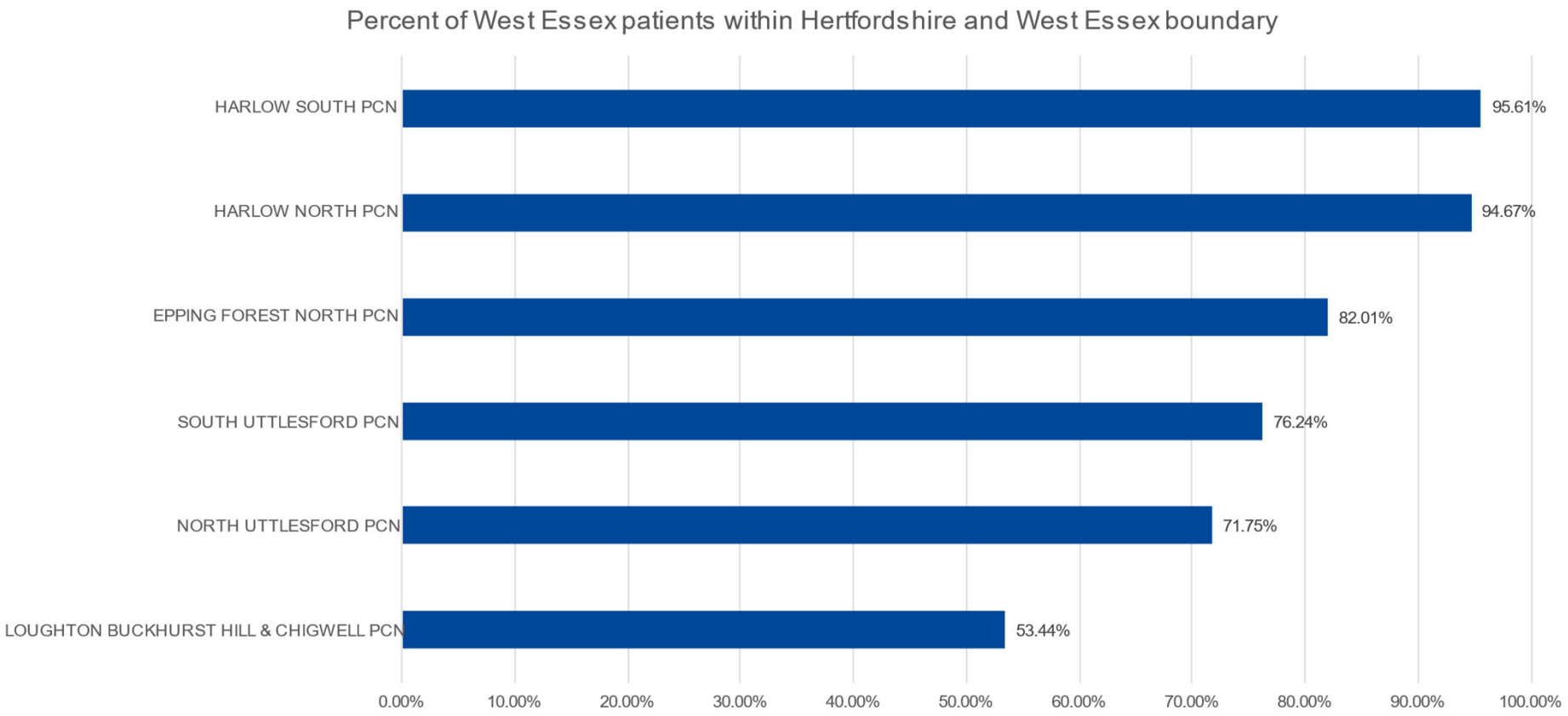
# Spread of Patients

NHS Hertfordshire and West Essex Integrated Care Board

Correct as of July 2022

Source: NHS Digital (2022)

## SPREAD OF PATIENTS ACROSS ENGLAND CONT.



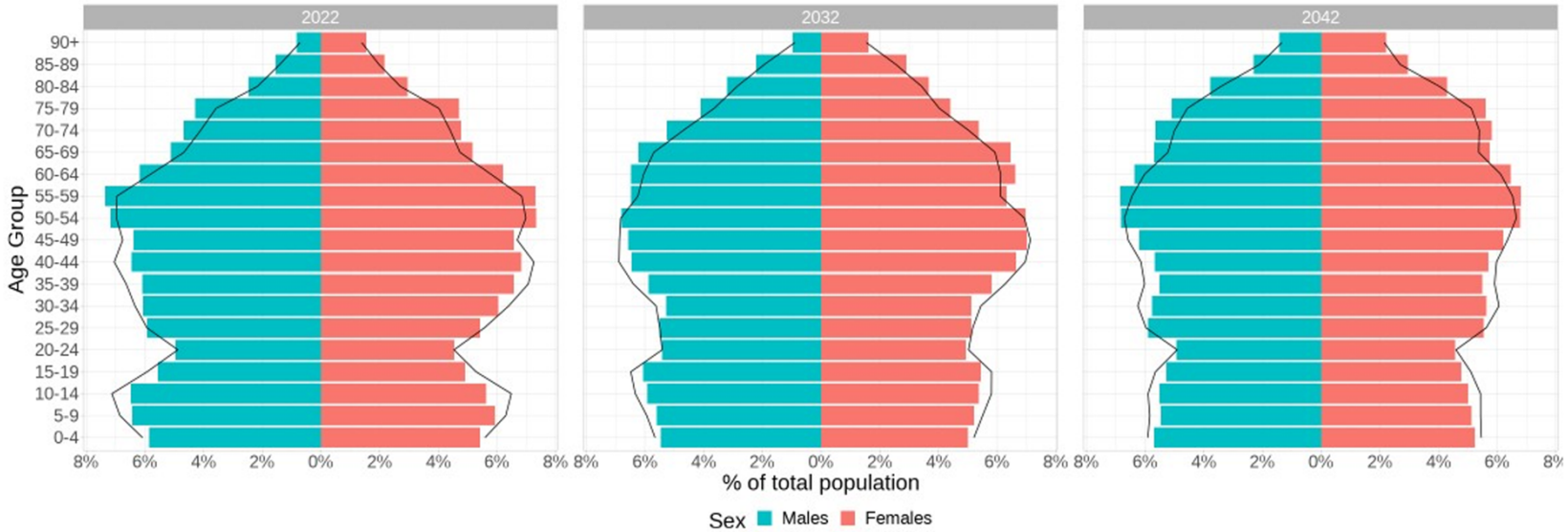

**This chart shows the proportion of the registered population living within the ICB geographical boundary. This shows LBC with 53% living within which reflects the patient pathways of accessing services outside the ICB borders.**

**The spread of patients for LBC PCN indicates the largest amount of the population out of all the PCNs, standing at 46.56%, which are not located within the Hertfordshire and 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)

Hertfordshire and West Essex Integrated Care Board

# Projection Pyramids




Black line indicates HWE ICS values.
Population pyramids and table shown for Epping Forest 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 | 7,516 | 7,213 | 7,749 |
| Under 24 | 37,154 | 37,482 | 36,581 |
| 24-64 | 69,400 | 68,295 | 69,342 |
| 65+ | 26,897 | 32,020 | 35,981 |
| 85+ | 4,080 | 5,331 | 6,363 |

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Hertfordshire Public Health Evidence & Intelligence Epidemiology

Hertfordshire

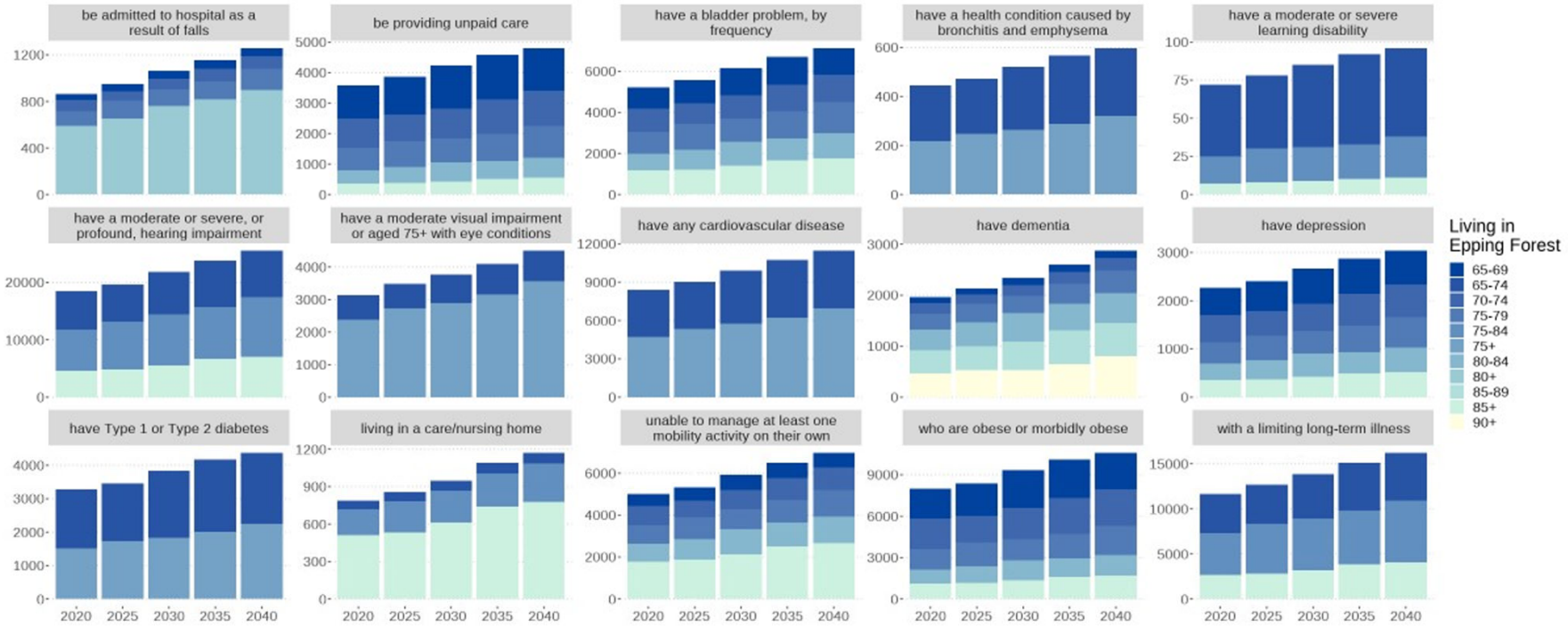
**The above projection pyramids show the growth in population expected for Epping Forest District. These projections show an expected increase in the number of people over 65 from ~27k to ~36k.**

Source: Public Health Team

# Public Health - Projections on Conditions

NHS Hertfordshire and West Essex Integrated Care Board

## 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.**

Source: Public Health Team

# Segmentation within the ICB

Optum

HWE

Segment & Outcomes
Framework Documentation

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# PHM Segment Model - Overview

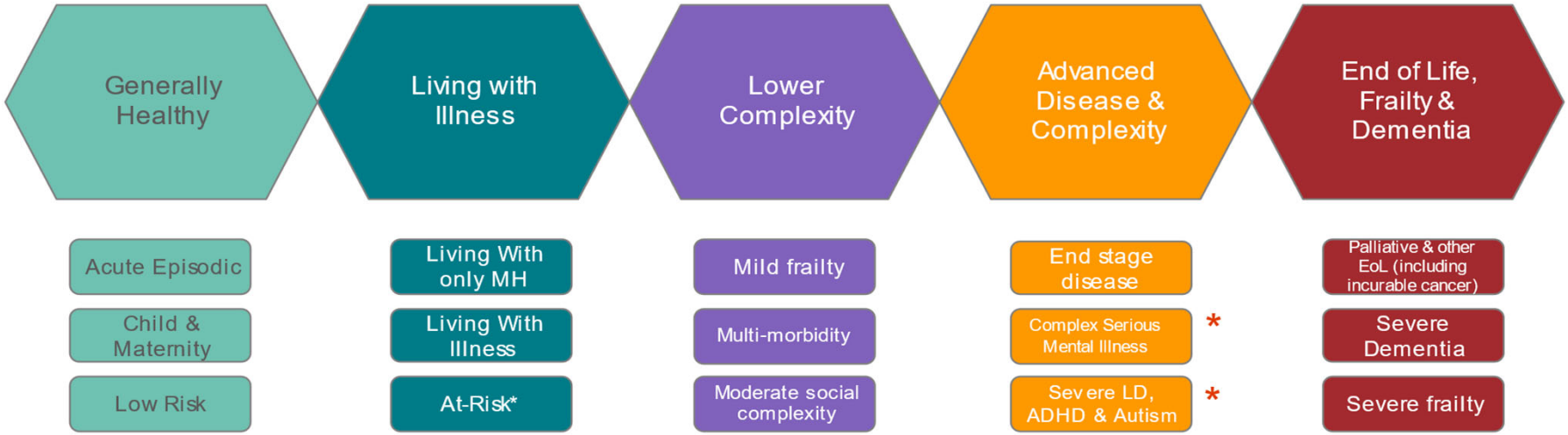
NHS Hertfordshire and West Essex Integrated Care Board

**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 orderfrom right to left in segment, and top to bottom in subsegment.

* awaiting finalisation of methodology

Optum

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2

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

# PHM Segment Model - Overview

NHS Hertfordshire and West Essex Integrated Care Board

**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.**

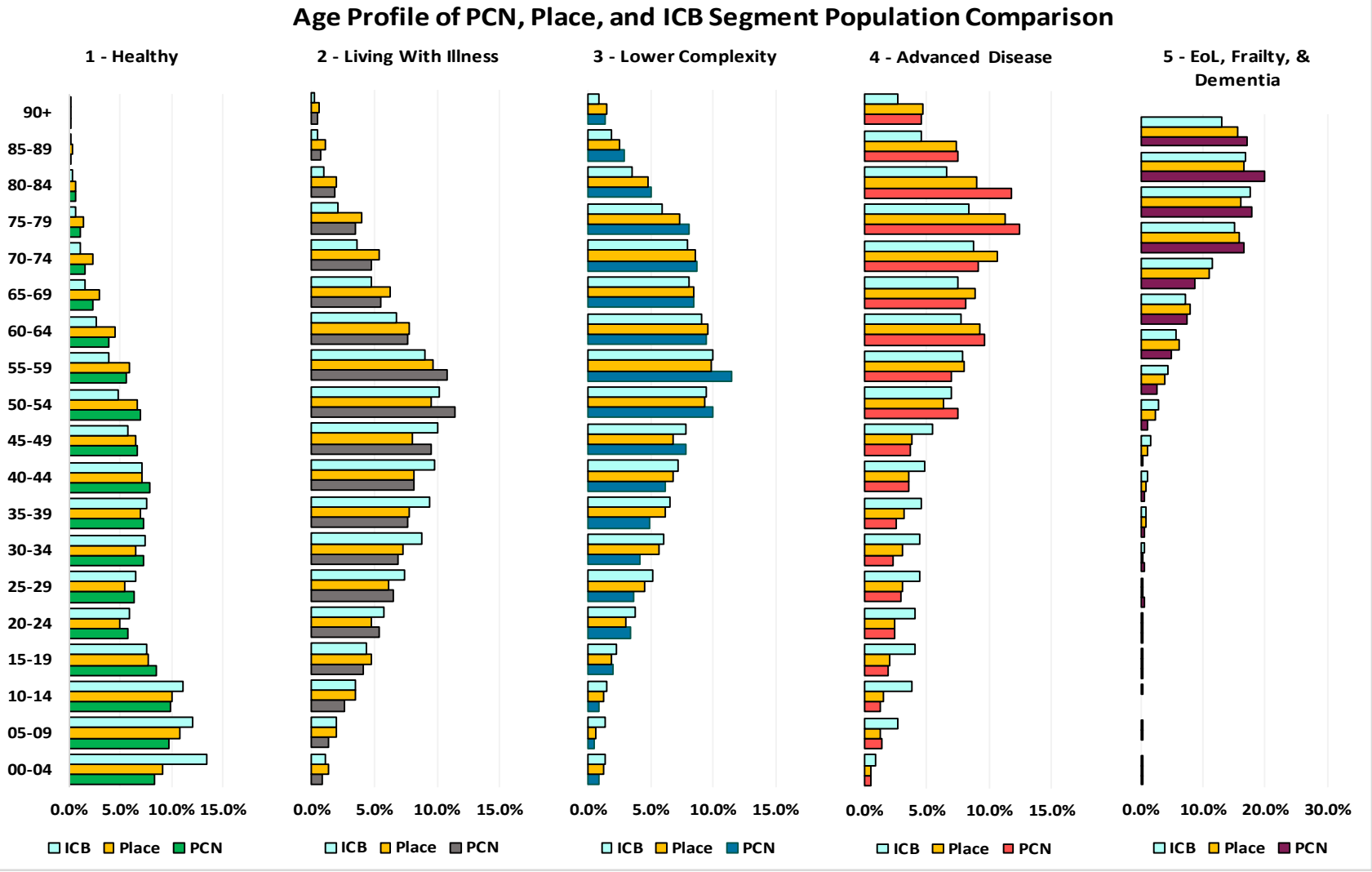
## Whole Population Outcomes

- 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" | Living with Illness | Lower Complexity | Advanced Disease & Complexity | End of Life, Frailty & Dementia |
|---|---|---|---|---|
| **Who is in this group?**<br>• Children and adults in the general population who are not otherwise captured in other segments.<br>• Most likely receive episodic care due to accidents and injuries or linked to maternity and CYP routine services.<br>• No diagnosed conditions. | **Who is in this group?**<br>• 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.<br>• Includes people with social or behavioural risk factors for more advanced disease. | **Who is in this group?**<br>• Includes people with moderate levels of morbidity and complexity. This is either as a result of: Multi-morbidity (2-4 long term conditions), Mild frailty and/or Social complexity. | **Who is in this group?**<br>• 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 | **Who is in this group?**<br>• 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**<br>• INCREASE screening.<br>• IMPROVE experience of Maternity services.<br>• REDUCE rates of childhood obesity in reception and year 6.<br>• REDUCE rate of infant mortality.<br>• REDUCTION in proportion of people diagnosed with low mood and/or depression. | **Social & Clinical Outcomes**<br>• INCREASE proportion of patients who feel able to self-manage their condition.<br>• REDUCE prevalence of behavioural risk factors for more advanced diseases, including: obesity, smoking status and drug abuse.<br>• REDUCE episodes of ill -health requiring emergency admissions for long term condition.<br>• INCREASE percentage of people with mental health problems in employment.<br>• INCREASE proportion of people who are able to maintain life routines considered important to the individual, e.g work, ..<br>• REDUCE emergency attendances due to alcohol -related harm. | **Social & Clinical Outcomes**<br>• INCREASE proportion of patients who feel able to self-manage their condition.<br>• REDUCE rate of emergency admissions for people with lower complexity.<br>• INCREASE proportion of patients offered personalised care and support planning.<br>• REDUCE prevalence of behavioural risk factors for more advanced diseases, including: obesity, smoking status and drug abuse. | **Social & Clinical Outcomes**<br>• INCREASE five year survival from cancer.<br>• REDUCE rate of emergency admissions in people with advanced disease or complexity.<br>• REDUCE the difference in average age of death between people with learning disability/SMI compared to general population.<br>• REDUCE proportion of whole population who are living with advanced disease and/or complexity. | **Social & Clinical Outcomes**<br>• REDUCE dependency for emergency care services e.g A&E attendances and emergency admissions.<br>• INCREASE proportion of people who die in their preferred place of death.<br>• INCREASE identification of frail and complex patients, including those with dementia or at end of life.<br>• REDUCE proportion of days disrupted by emergency care in last year of life.<br>• INCREASE number of days spent at home in last year of life.<br>• 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



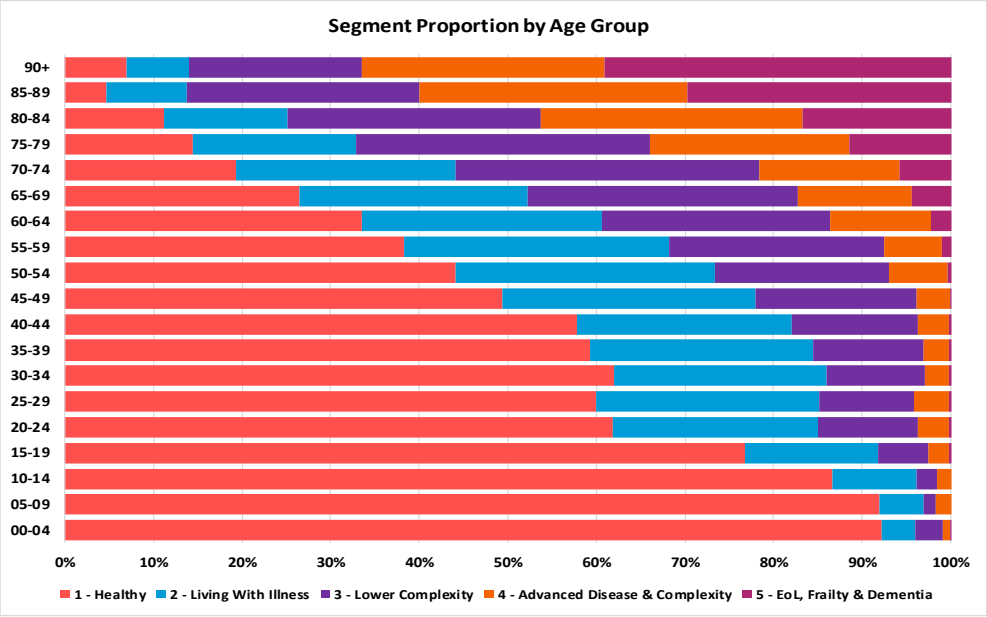

**Each registered person is assigned to a segment and this can be cut by age group and also geographically by Place or PCN. The above looks at the breakdown by age of people within each segment.**

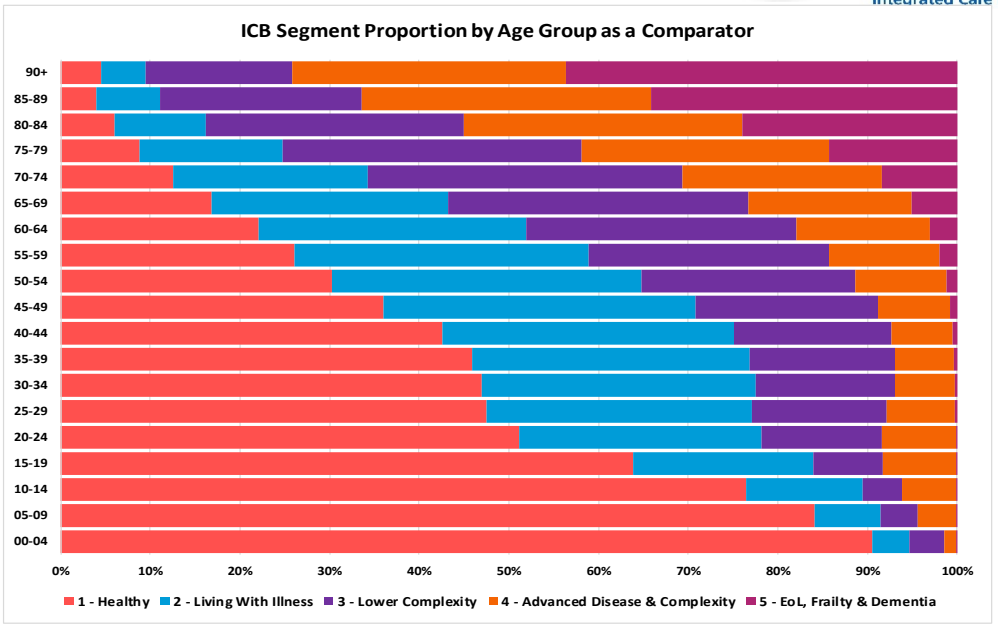
**The above looks at the breakdown by age of people within each segment. It provides the PCN value against the Place and ICB value.**

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

# Demographic Breakdowns - Segment & Deprivation Quintiles

Hertfordshire and West Essex Integrated Care Board



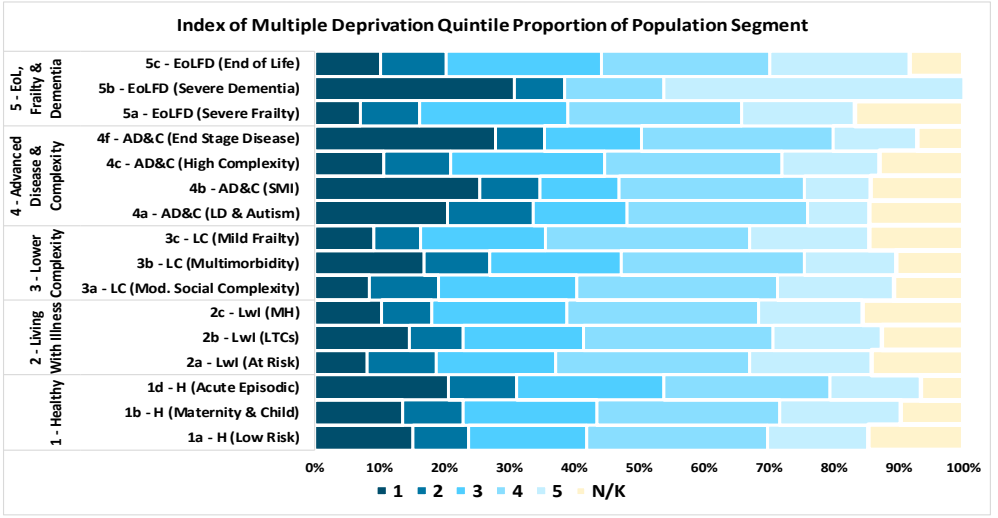




**The ICB Health Segments here are broken down by total population and 5 year age groups; as expected with age the proportion of people within the healthy segment decreases.**

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

**In general LBC have a similar profile 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

NHS Hertfordshire and West Essex Integrated Care Board

| 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 |
| 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.**

**Conditions that are highlighted for LBC are AF and Heart Disease.**

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

# Continued

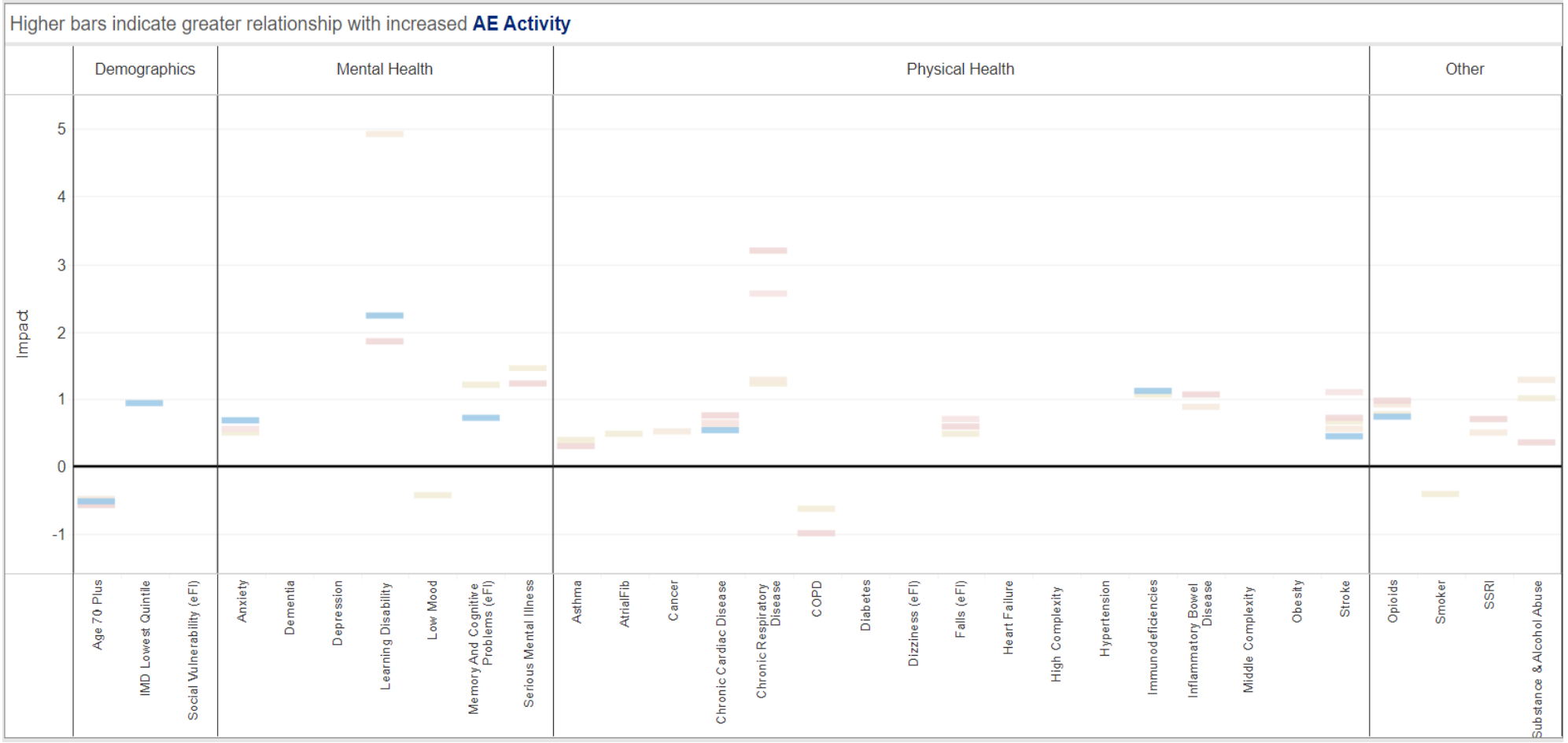
Hertfordshire and West Essex Integrated Care Board

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

**On this page of conditions, we can see that the PCN has higher prevalence of Inflammatory Bowel Disease, Osteoperosis, 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.**

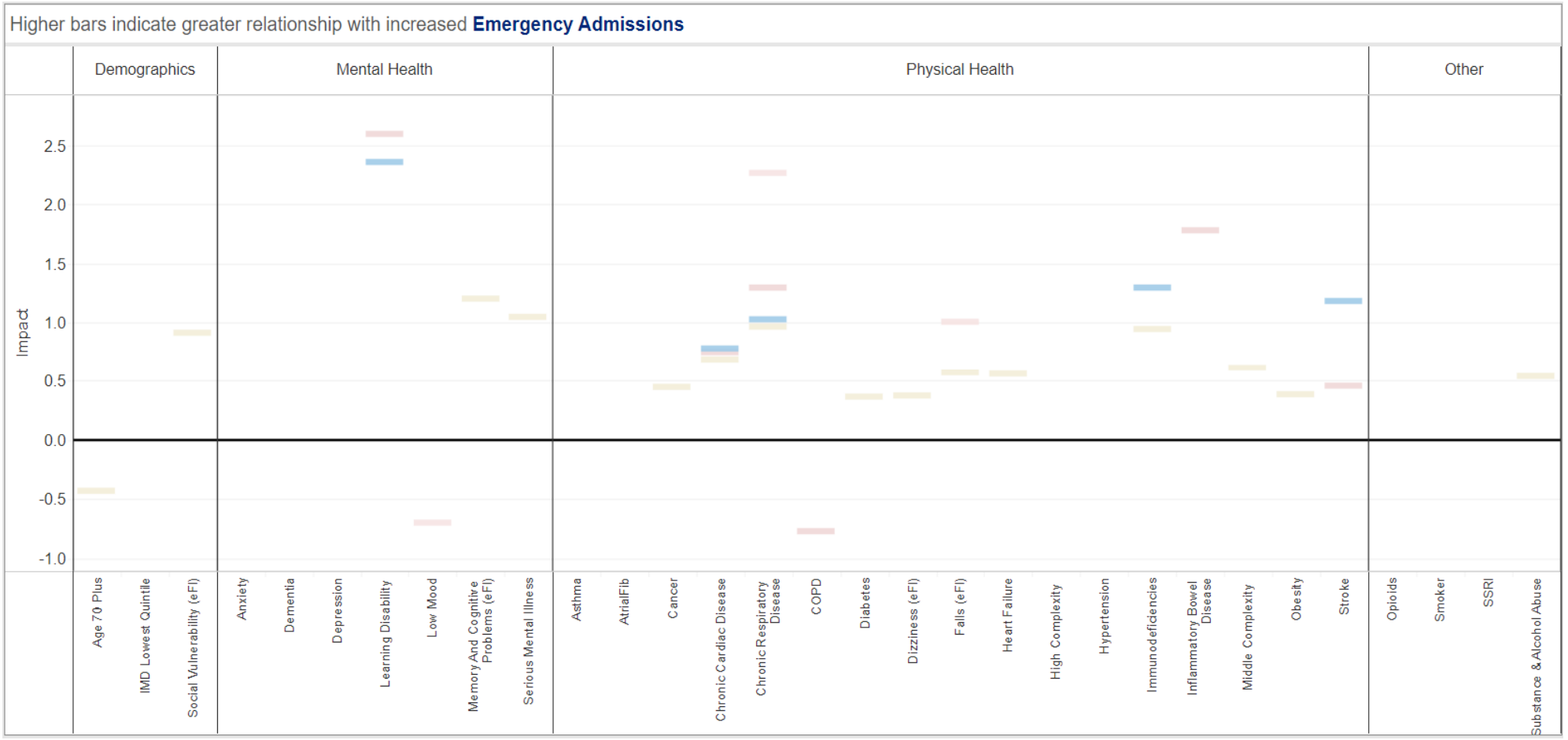
**The Model - A statistical regression model is used to decide which Risk Factors correlate with a significant impact on the selected targets as presented in these charts, the height of the bar for each PCN relates to the correlation of a Risk Factor and an increase in impact on the selected target condition.**

**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**

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

# PCN Benchmarking - Emergency Admissions

Hertfordshire and West Essex Integrated Care Board




**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.**

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

# Urgent and Emergency Care

NHS Hertfordshire and West Essex Integrated Care Board

**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 and West Essex Integrated Care Board

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

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

111,881 A&E Attendances in 2021/22

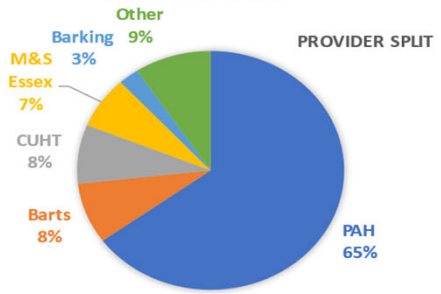
Children = 29,930 (26.8%)
Adults = 57,019 (51.0%)
Older People = 24,932 (22.3%)

69,360 people attended A&E in 2021/22

Children 18,773 = (27.1%)
Adults = 36,252 (52.3%)
Older People = 14,461 (20.8%)

29,408 (26.3%) of attendances resulted in no investigation and no treatment (includes Uncoded Activity)

Children = 9,684 (32.4%)
Adults = 16,142 (28.3%)
Older People = (14.4%)




This translates to 1 in 4 people registered with West Essex attending A&E

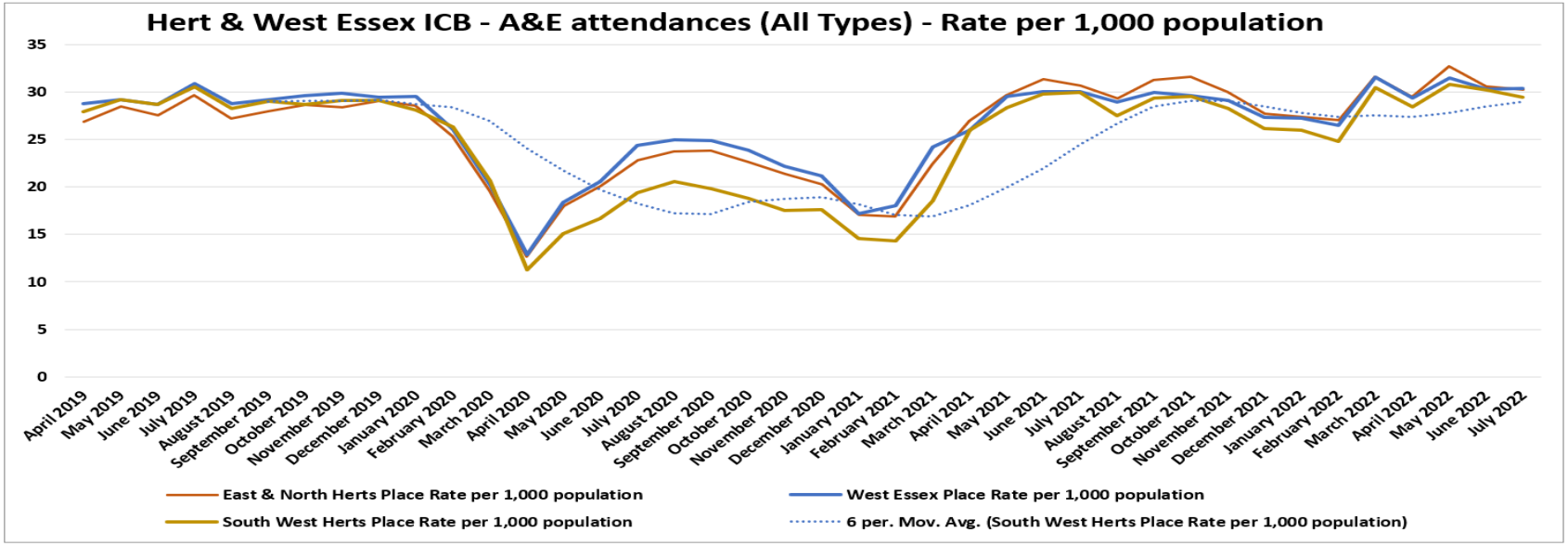
Children = 1 in 4 children
Adults = 1 in 5 adults
Older People = 1 in 4 older people

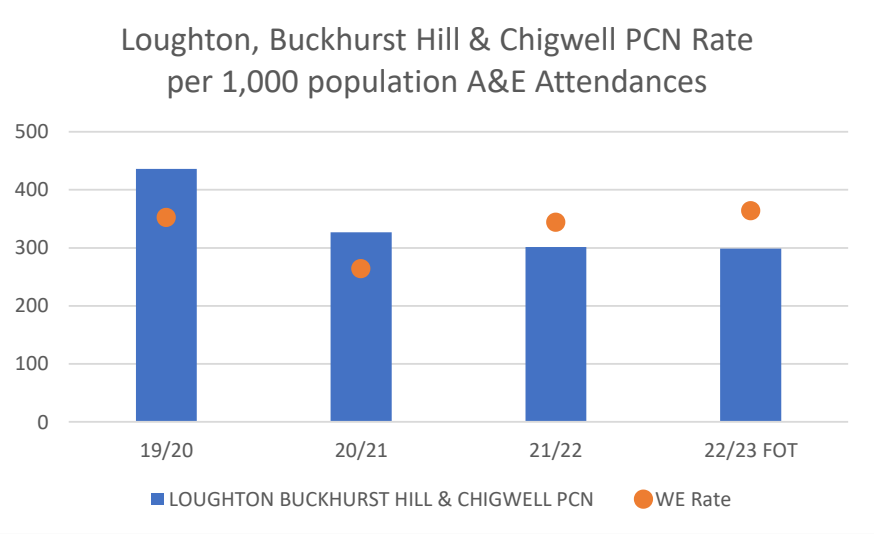
Hertfordshire and West Essex Integrated Care System

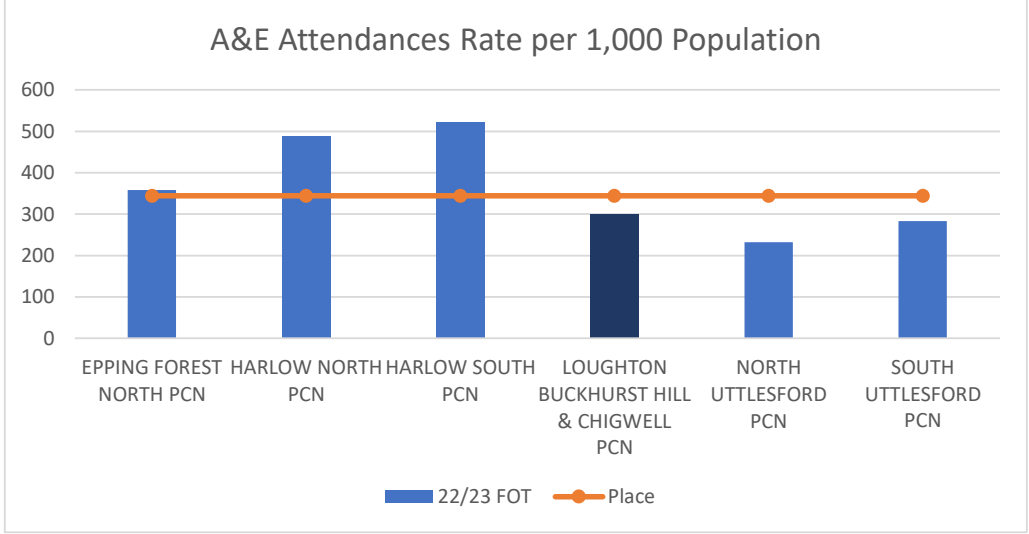
Source: SUS

Source: HWE PHm Team, SUS Data Sets

# 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.**

**2022/23 rates for LBC are lower than the place rate.**

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

# Unplanned Hospitalisation for Chronic Ambulatory Care Sensitive Conditions

Hertfordshire and West Essex Integrated Care Board

**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 LBC PCN.**

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

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

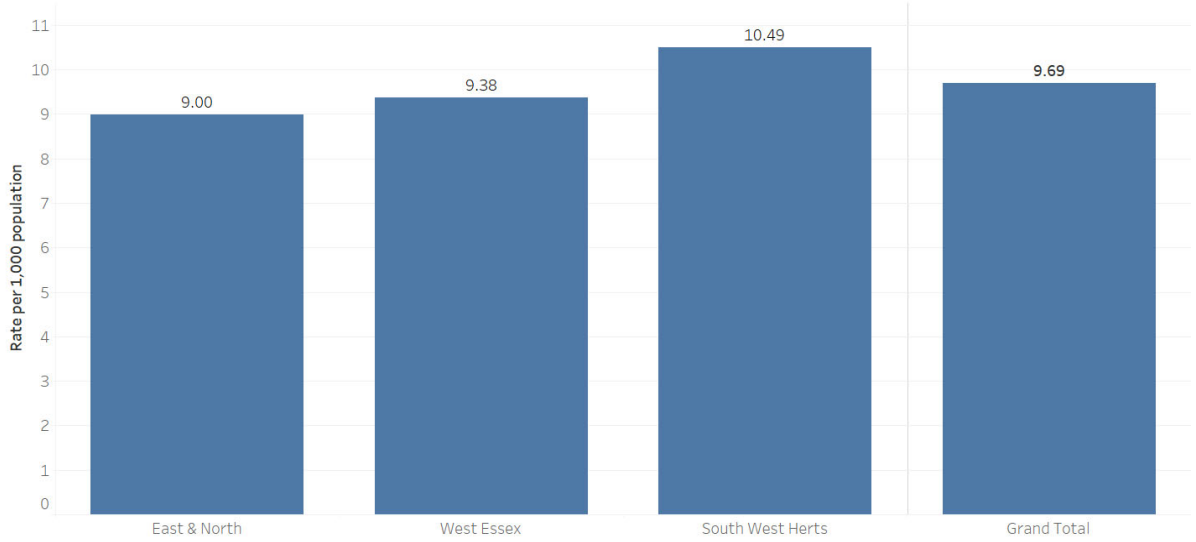
| Chronic ACS | Admissions | People | Average cost of admission | Tariff Total Payment National |
|---|---|---|---|---|
| CVD: AF and Flutter | 86 | 76 | £2,526 | £217,236 |
| CVD: Angina | 18 | 18 | £1,561 | £28,102 |
| CVD: Congestive Heart Failure | 110 | 95 | £5,798 | £637,776 |
| CVD: Hypertension | 27 | 25 | £834 | £22,517 |
| Diseases of the blood | 31 | 28 | £3,020 | £93,624 |
| Mental and Behavioural Disorders | 8 | 8 | | |
| Neurological Disorders | 24 | 20 | £2,378 | £57,071 |
| Nutritional, endocrine and metabolic | 64 | 52 | £3,416 | £218,643 |
| Respiratory: Asthma | 45 | 42 | £1,534 | £69,051 |
| Respiratory: COPD | 79 | 59 | £3,725 | £294,281 |
| Grand Total | **492** | **408** | **£3,330** | **£1,638,301** |

Source: HWE PHM Team, SUS UEC data-sets

# ACS Admission Rates per 1,000 Population by Place

Hertfordshire and West Essex Integrated Care Board

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

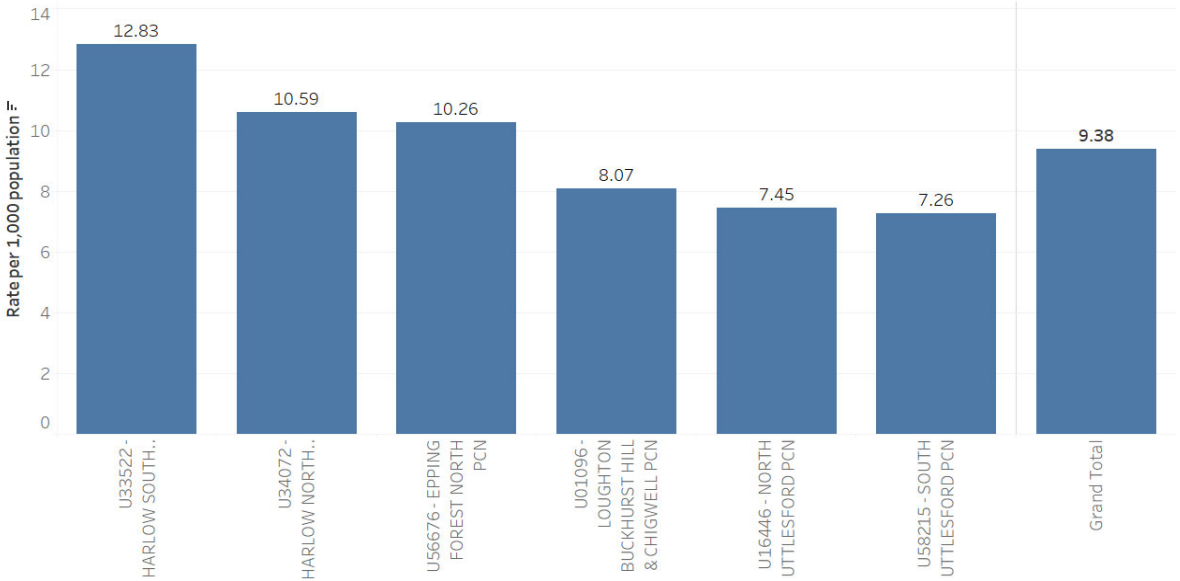



**When comparing the rates per 1,000 population between places, the West Essex place has a slightly lower rate than the ICB.**

**Within West Essex Place, LBC has a lower rate per 1,000 population.**

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

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




Source: HWE PHM Team, SUS UEC data-sets

# Chronic ACS by Segment

Hertfordshire and West Essex Integrated Care Board


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

**For LBC the highest volume and cost is within the End of Life, Severe Frailty and Dementia in the over 65 age group followed by the same age in the Advanced Disease and Complexity segment.**

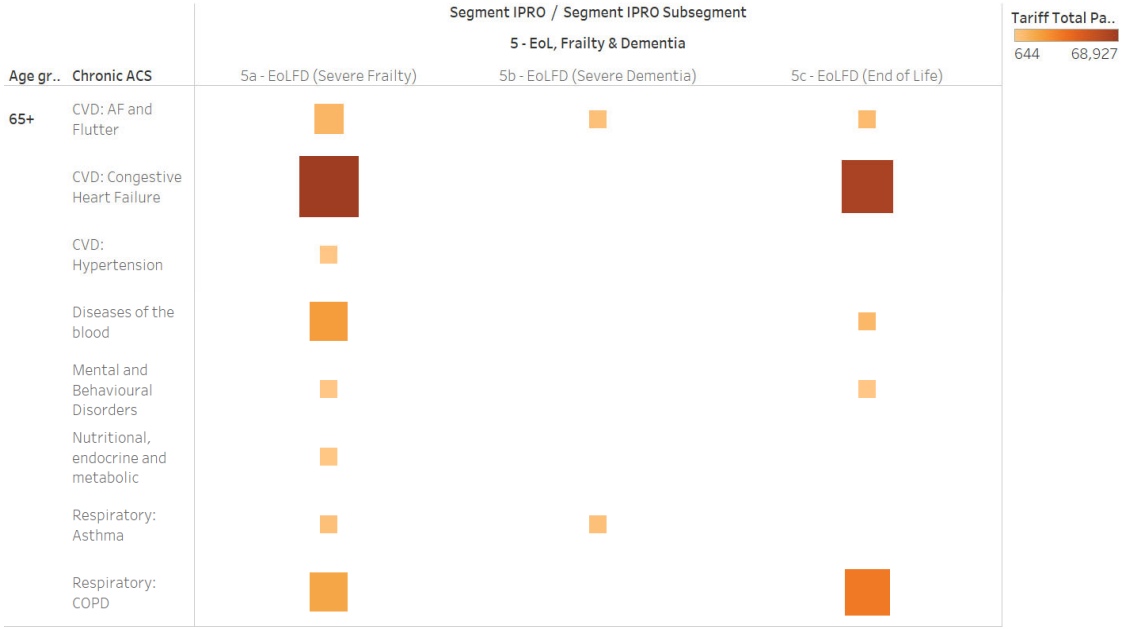
**The following pages look at which ACSs contribute to this.**

Source: HWE PHM Team, SUS UEC data-sets

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

Hertfordshire and West Essex Integrated Care Board

## Segment 5




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

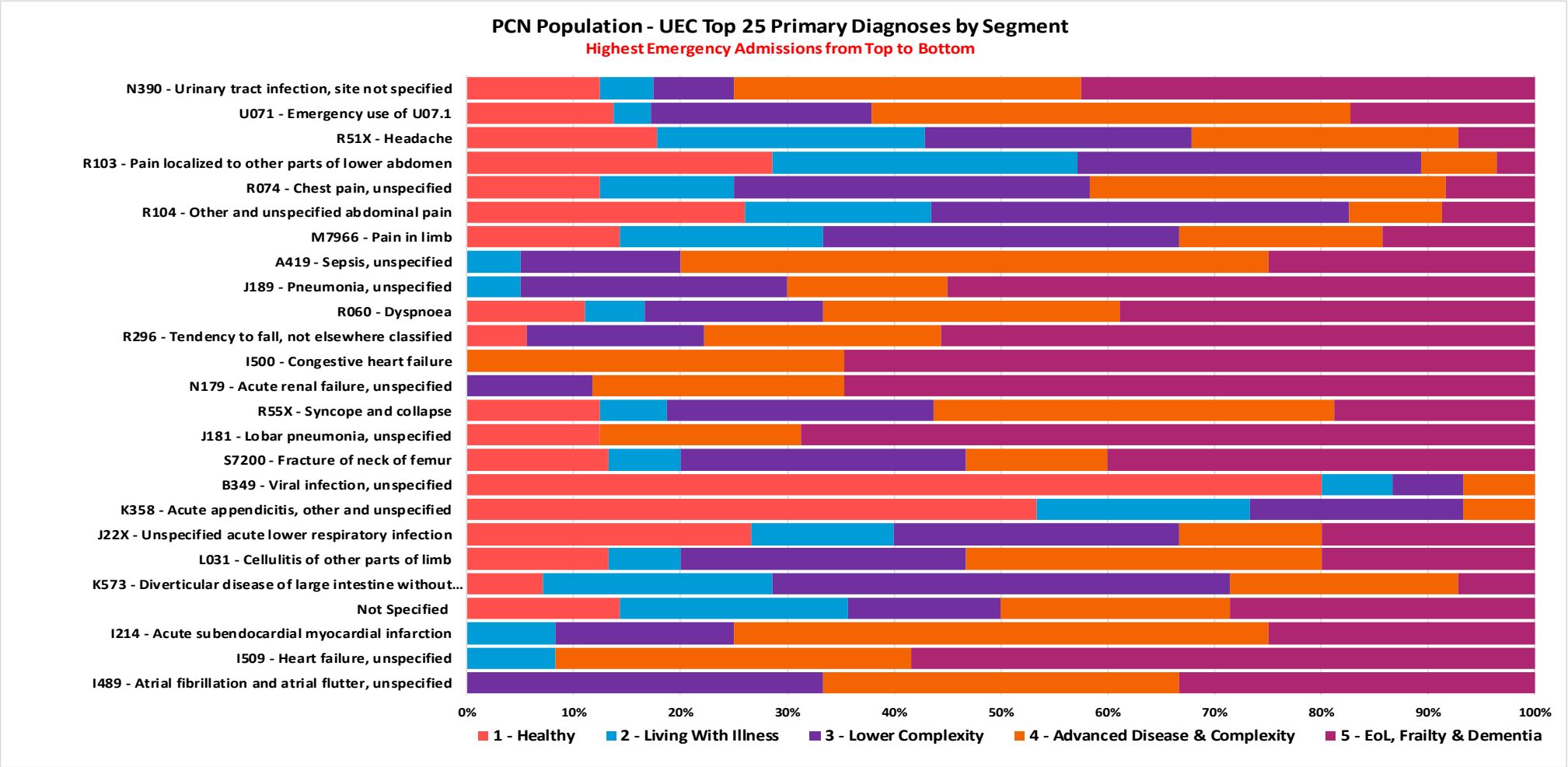
**Heart failure is also highlighted withint the advanced disease and complexity cohort.**

## Segment 4


*Source*: HWE PHM Team, SUS UEC data-sets

# UEC Diagnoses by Segment

NHS Hertfordshire and West Essex Integrated Care Board




**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.**

Source: HWE PHM Team, SUS UEC data-sets

# UEC & Segmentation + Deprivation by Ward

Hertfordshire and West Essex Integrated Care Board

| UEC Patients Seen by Segment & Ward | 1 - Healthy | 2 - Living With Illness | 3 - Lower Complexity | 4 - Advanced Disease & Complexity | 5 - EoL, Frailty & Dementia | Grand Total |
|---|---|---|---|---|---|---|
| Borehamwood Brookmeadow | | | | 1 | | 1 |
| Broadley Common, Epping Upland and | 1 | | | | | 1 |
| Buckhurst Hill East | 29 | 16 | 32 | 37 | 49 | 163 |
| Buckhurst Hill West | 37 | 29 | 47 | 57 | 83 | 253 |
| Chigwell Row | | 1 | 1 | 2 | 1 | 5 |
| Chigwell Village | 9 | 2 | 4 | 13 | 20 | 48 |
| Chipping Ongar, Greensted and Marden Ash | | | | | 1 | 1 |
| Church Langley | | | | 1 | 6 | 7 |
| Epping Hemnall | 1 | | 1 | 4 | 3 | 9 |
| Epping Lindsey and Thornwood Comm | 1 | 2 | | | | 3 |
| Grange Hill | 3 | 2 | 1 | 5 | 3 | 14 |
| Lambourne | | | 1 | | | 1 |
| Little Parndon and Hare Street | | | | | 12 | 12 |
| Loughton Alderton | 19 | 17 | 32 | 36 | 17 | 121 |
| Loughton Broadway | 8 | 9 | 27 | 36 | 7 | 87 |
| Loughton Fairmead | 7 | 13 | 16 | 26 | 10 | 72 |
| Loughton Forest | 11 | 11 | 16 | 25 | 21 | 84 |
| Loughton Roding | 16 | 16 | 29 | 48 | 32 | 141 |
| Loughton St John's | 20 | 26 | 30 | 18 | 21 | 115 |
| Loughton St Mary's | 28 | 21 | 31 | 37 | 48 | 165 |
| Mark Hall | | | | | 1 | 1 |
| Moreton and Fyfield | | | | 1 | | 1 |
| North Weald Bassett | 1 | | | | | 1 |
| Passingford | 1 | | | | | 1 |
| Stort Valley | | | | 2 | 2 | 4 |
| Sumners and Kingsmoor | | | | 1 | | 1 |
| Thaxted & the Eastons | | | 1 | | | 1 |
| The Sampfords | | | | 2 | | 2 |
| Theydon Bois | 4 | 4 | | | 4 | 12 |
| Waltham Abbey High Beach | 3 | 3 | 2 | 9 | 10 | 27 |
| Waltham Abbey Honey Lane | 1 | 1 | 1 | 1 | | 4 |
| Waltham Abbey North East | | 2 | 1 | | | 3 |
| Waltham Abbey Paternoster | | | 1 | 2 | 1 | 4 |
| Waltham Abbey South West | | | | 2 | | 2 |
| Unknown Ward | 14 | 19 | 22 | 31 | 31 | 117 |
| Grand Total | 214 | 194 | 296 | 397 | 383 | 1484 |

| UEC Patients Seen by Deprivation Quintile & Ward<br>1 = Most Deprived, 5 = Least Deprived | 1 | 2 | 3 | 4 | 5 | (blank) | Grand Total |
|---|---|---|---|---|---|---|---|
| Borehamwood Brookmeadow | | 1 | | | | | 1 |
| Broadley Common, Epping Upland and | 1 | | | | | | 1 |
| Buckhurst Hill East | | | 117 | 46 | | | 163 |
| Buckhurst Hill West | | | | 114 | 139 | | 253 |
| Chigwell Row | | | 5 | | | | 5 |
| Chigwell Village | | 18 | 4 | | 26 | | 48 |
| Chipping Ongar, Greensted and Marden Ash | | | | 1 | | | 1 |
| Church Langley | | | | 7 | | | 7 |
| Epping Hemnall | | | 6 | 3 | | | 9 |
| Epping Lindsey and Thornwood Common | | | 3 | | | | 3 |
| Grange Hill | 9 | | | 5 | | | 14 |
| Lambourne | | 1 | | | | | 1 |
| Little Parndon and Hare Street | 7 | 5 | | | | | 12 |
| Loughton Alderton | 50 | 37 | 34 | | | | 121 |
| Loughton Broadway | 87 | | | | | | 87 |
| Loughton Fairmead | 50 | 22 | | | | | 72 |
| Loughton Forest | | | | 28 | 56 | | 84 |
| Loughton Roding | | 51 | 38 | 52 | | | 141 |
| Loughton St John's | | | | 115 | | | 115 |
| Loughton St Mary's | 62 | | 43 | 60 | | | 165 |
| Mark Hall | 1 | | | | | | 1 |
| Moreton and Fyfield | | 1 | | | | | 1 |
| North Weald Bassett | 1 | | | | | | 1 |
| Passingford | 1 | | | | | | 1 |
| Stort Valley | | | 4 | | | | 4 |
| Sumners and Kingsmoor | 1 | | | | | | 1 |
| Thaxted & the Eastons | | | 1 | | | | 1 |
| The Sampfords | | | 2 | | | | 2 |
| Theydon Bois | | | 2 | 6 | 4 | | 12 |
| Waltham Abbey High Beach | 27 | | | | | | 27 |
| Waltham Abbey Honey Lane | 1 | 3 | | | | | 4 |
| Waltham Abbey North East | 2 | | 1 | | | | 3 |
| Waltham Abbey Paternoster | 4 | | | | | | 4 |
| Waltham Abbey South West | 2 | | | | | | 2 |
| Unknown Ward | | | | | | 117 | 117 |
| Grand Total | 306 | 139 | 260 | 437 | 225 | 117 | 1484 |

**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

NHS Hertfordshire and West Essex Integrated Care Board

## Hospital Admissions

| | Period | HERTFORDSHIRE AND WEST ESSEX | LOUGHTON BUCKHURST HILL & CHIGWELL PCN |
|---|---|---|---|
| Emergency admissions injuries due to falls in those aged 65+ | 2020/21 | 2026 | 1773.5 |
| Emergency asthma, diabetes and epilepsy admissions (aged 0-18) | 2020/21 | 130.8 | 158.6 |
| 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 | 501.7 |
| Mental health admissions (all ages) | 2020/21 | 177.2 | 193 |
| Emergency Cancer Admissions | 2020/21 | 494.9 | 412.5 |
| Emergency admissions for acute conditions shouldn't require admissions | 2020/21 | 611.6 | 673.3 |

Similar | Significantly Worse | Significantly Better

PH.Intelligence@hertfordshire.gov.uk

Hertfordshire Public Health Evidence & Intelligence Epidemiology

Hertfordshire

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

**LBC PCN show a similar rate of admissions to the ICB.**

Source: Public Health Team

# Frailty Segment - Detailed PCN Breakdown

Hertfordshire and West Essex Integrated Care Board

| | Most deprived | | | | | | | | | Most affluent | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Index of Multiple Deprivation Decile** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **NULL** | **PCN** | **ICS** |
| **Overall Population Measures** | | | | | | | | | | | | | |
| Population | | 4 | 13 | 27 | 59 | 45 | 75 | 79 | 111 | 166 | 2 | 581 | 37725 |
| % of population in cohort | | 0.7% | 2.2% | 4.6% | 10.2% | 7.7% | 12.9% | 13.6% | 19.1% | 28.6% | 0.3% | 100.0% | 100.0% |
| Avg. Age | | 53.3 | 76.6 | 69.9 | 77.4 | 76.1 | 81.6 | 76.9 | 80.2 | 79.6 | 75.5 | 78.4 | 75.6 |
| % BAME Where recorded | | 0% | 15% | 0% | 7% | 13% | 6% | 9% | 9% | 9% | 50% | 9% | 8% |
| Avg. number of Acute and Chronic Conditions | | 5.0 | 6.5 | 6.0 | 6.2 | 4.8 | 5.7 | 5.6 | 5.5 | 5.1 | 5.0 | 5.5 | 5.5 |
| **Activity Measure** | | | | | | | | | | | | | |
| Emergency Admissions | | 1.8 | 1.5 | 0.9 | 0.9 | 0.6 | 0.4 | 0.7 | 0.9 | 0.6 | 0.5 | 0.7 | 0.6 |
| A&E Attendances | | 1.5 | 1.8 | 1.4 | 1.6 | 0.7 | 0.7 | 1.0 | 1.1 | 0.8 | 1.0 | 1.0 | 0.9 |
| GP Encounters | | 90.8 | 193.2 | 110.9 | 130.1 | 110.8 | 150.5 | 122.9 | 134.9 | 146.1 | 71.0 | 135.8 | 103.4 |
| Admitted Bed Days | | 2.0 | 21.9 | 8.8 | 9.2 | 1.9 | 2.9 | 5.8 | 7.0 | 6.5 | 0.0 | 6.4 | 4.2 |
| **Physical Health** | | | | | | | | | | | | | |
| Asthma | | 0.0% | 38.5% | 14.8% | 35.6% | 28.9% | 25.3% | 26.6% | 20.7% | 19.9% | 50.0% | 24.1% | 25.2% |
| Cancer | | 25.0% | 30.8% | 40.7% | 32.2% | 28.9% | 24.0% | 39.2% | 40.5% | 36.1% | 50.0% | 34.9% | 32.8% |
| Chronic Cardiac Disease | | 25.0% | 61.5% | 59.3% | 55.9% | 37.8% | 54.7% | 41.8% | 55.9% | 47.0% | 50.0% | 49.9% | 47.5% |
| Chronic Respiratory Disease | | 25.0% | 30.8% | 22.2% | 35.6% | 26.7% | 17.3% | 25.3% | 30.6% | 16.9% | 0.0% | 23.9% | 22.2% |
| CKD | | 0.0% | 7.7% | 11.1% | 20.3% | 24.4% | 28.0% | 16.5% | 10.8% | 18.1% | 0.0% | 17.7% | 20.7% |
| Heart Disease | | 25.0% | 61.5% | 48.1% | 54.2% | 37.8% | 46.7% | 39.2% | 49.5% | 38.6% | 50.0% | 44.2% | 39.1% |
| Hypertension | | 50.0% | 84.6% | 63.0% | 67.8% | 64.4% | 78.7% | 75.9% | 74.8% | 68.1% | 100.0% | 71.6% | 74.5% |
| Diabetes | | 50.0% | 46.2% | 33.3% | 52.5% | 31.1% | 37.3% | 45.6% | 39.6% | 37.3% | 100.0% | 40.3% | 42.8% |
| Obesity | | 0.0% | 7.7% | 37.0% | 27.1% | 20.0% | 30.7% | 30.4% | 33.3% | 24.1% | 0.0% | 27.5% | 32.8% |
| Rheumatoid Arthritis | | 50.0% | 7.7% | 11.1% | 8.5% | 4.4% | 5.3% | 7.6% | 2.7% | 2.4% | 0.0% | 5.2% | 5.3% |
| Stroke | | 50.0% | 46.2% | 40.7% | 35.6% | 24.4% | 33.3% | 35.4% | 36.0% | 32.5% | 0.0% | 34.1% | 34.5% |
| **Mental Health** | | | | | | | | | | | | | |
| Anxiety | | 25.0% | 23.1% | 29.6% | 18.6% | 24.4% | 24.0% | 24.1% | 21.6% | 18.7% | 0.0% | 21.7% | 29.0% |
| Depression | | 25.0% | 46.2% | 37.0% | 33.9% | 22.2% | 37.3% | 34.2% | 28.8% | 25.3% | 50.0% | 30.5% | 33.6% |
| Dementia | | 0.0% | 15.4% | 22.2% | 25.4% | 13.3% | 30.7% | 8.9% | 14.4% | 16.9% | 0.0% | 17.7% | 18.6% |
| Serious Mental Illness | | 0.0% | 0.0% | 3.7% | 3.4% | 2.2% | 6.7% | 2.5% | 2.7% | 1.8% | 0.0% | 2.9% | 6.5% |
| Low Mood | | 25.0% | 15.4% | 0.0% | 15.3% | 6.7% | 21.3% | 13.9% | 11.7% | 12.7% | 50.0% | 13.3% | 18.5% |
| Suicide | | 0.0% | 0.0% | 0.0% | 1.7% | 0.0% | 2.7% | 0.0% | 0.0% | 0.6% | 0.0% | 0.7% | 1.5% |
| Mental Health Flag | | 25.0% | 46.2% | 40.7% | 40.7% | 35.6% | 46.7% | 41.8% | 40.5% | 38.0% | 50.0% | 40.4% | 48.8% |
| **Screening and Verification Refusal** | | | | | | | | | | | | | |
| Bowel Screening Refused | | 0.0% | 23.1% | 0.0% | 25.4% | 24.4% | 28.0% | 22.8% | 17.1% | 16.9% | 50.0% | 20.0% | 25.5% |
| Cervical Screening Refused | | 0.0% | 0.0% | 0.0% | 3.4% | 0.0% | 1.3% | 1.3% | 0.9% | 1.2% | 0.0% | 1.2% | 3.6% |
| Flu Vaccine Refused | | 0.0% | 7.7% | 37.0% | 27.1% | 28.9% | 29.3% | 25.3% | 18.0% | 19.9% | 50.0% | 23.4% | 26.4% |
| **Wider Indicators** | | | | | | | | | | | | | |
| Has A Carer | | 0.0% | 0.0% | 3.7% | 8.5% | 8.9% | 9.3% | 5.1% | 7.2% | 9.6% | 0.0% | 7.7% | 19.0% |
| Is A Carer | | 0.0% | 0.0% | 0.0% | 5.1% | 6.7% | 4.0% | 8.9% | 2.7% | 0.6% | 0.0% | 3.4% | 11.9% |
| MED3 Not Fit For Work (ever) | | 25.0% | 0.0% | 3.7% | 5.1% | 6.7% | 5.3% | 6.3% | 5.4% | 2.4% | 0.0% | 4.6% | 13.4% |
| MED3 Not Fit For Work (in Last Year) | | 25.0% | 0.0% | 0.0% | 1.7% | 2.2% | 2.7% | 0.0% | 2.7% | 0.6% | 0.0% | 1.5% | 3.5% |
| MED3 Not Fit For Work (in Last Six Months) | | 25.0% | 0.0% | 0.0% | 1.7% | 2.2% | 2.7% | 0.0% | 2.7% | 0.6% | 0.0% | 1.5% | 2.8% |
| Avg. number of eFI Deficits | | 9.0 | 10.8 | 11.3 | 13.7 | 11.9 | 13.1 | 13.2 | 13.3 | 13.0 | 13.5 | 12.9 | 13.4 |
| eFI_Housebound | | 0.0% | 7.7% | 3.7% | 5.1% | 8.9% | 25.3% | 11.4% | 10.8% | 19.3% | 0.0% | 13.9% | 10.9% |
| eFI_SocialVulnerability | | 25.0% | 23.1% | 11.1% | 23.7% | 15.6% | 28.0% | 17.7% | 22.5% | 19.9% | 50.0% | 21.0% | 27.3% |
| People_ChildrenInPoverty | | | 23.5 | 10.3 | 15.7 | 12.6 | 10.0 | 12.0 | 7.5 | 4.7 | | 9.1 | 15.5 |
| Housing_FuelPoverty | | 16.0 | 17.7 | 14.8 | 13.3 | 11.4 | 10.0 | 10.3 | 8.1 | 8.3 | | 10.1 | 11.1 |
| Housing_OnePersonHousehold | | 40.5 | 33.8 | 39.9 | 26.9 | 25.4 | 43.0 | 25.7 | 27.7 | 28.2 | | 30.1 | 28.3 |

Source: HWE PHM Team, SUS UEC data-sets

**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 LBC 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 LBC PCN is similar to the ICB.**

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

# Applying Machine Learning factors without our data platform

NHS Hertfordshire and West Essex Integrated Care Board

**Why Machine Learning?**

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

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

**Approach**

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

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

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

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

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

**Creating search logic from significant features**

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

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

| | |
|---|---|
| Risk Grade: High | **Age < 3** AND **Drug: Salbutamol** AND **eFI: Dyspnoea** |
| | **Med3 Not Fit For Work (last six months)** AND **Substance Abuse** AND ONE OF:-<br>• **Drug: Pain Management** AND **eFI: Peptic Ulcer**<br>• **Chronic Cardiac Disease** |
| | **Drug: Pain Management** AND **eFI: Falls** AND ONE OF:-<br>• **Stroke** AND **eFI: Memory and Cognitive Problems**<br>• **Stroke** AND **Substance Abuse**<br>• **End Stage Disease** |
| Risk Grade: Medium | **Age < 3** AND ONE OF:-<br>• **Drug: Salbutamol** AND NO **eFI: Dyspnoea**<br>• **On any waiting list** |
| | **Med3 Not Fit For Work (last six months)** AND **Substance Abuse** AND NO **Chronic Cardiac Disease** |
| | **Age < 45** AND **Med3 Not Fit For Work (last six months)** AND **Drug: Pain Management** |
| | **Drug: Pain Management** AND **Substance Abuse** AND **ONE OF:**<br>• **Drug: Opioids**<br>• **eFI: Falls** AND NO **Stroke** AND NO **End Stage Disease** |
| Risk Grade: Low | All others |

Source: HWE PHM Team

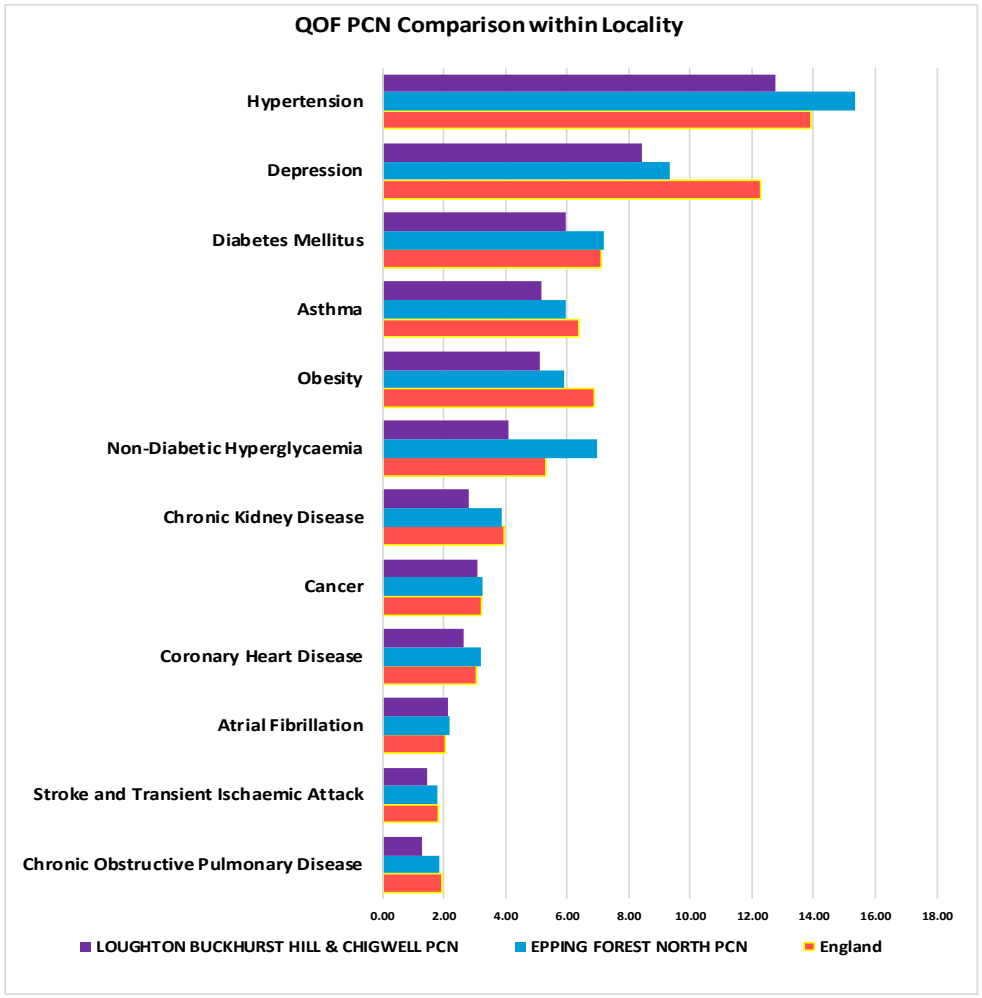
# Quality & Outcomes Framework

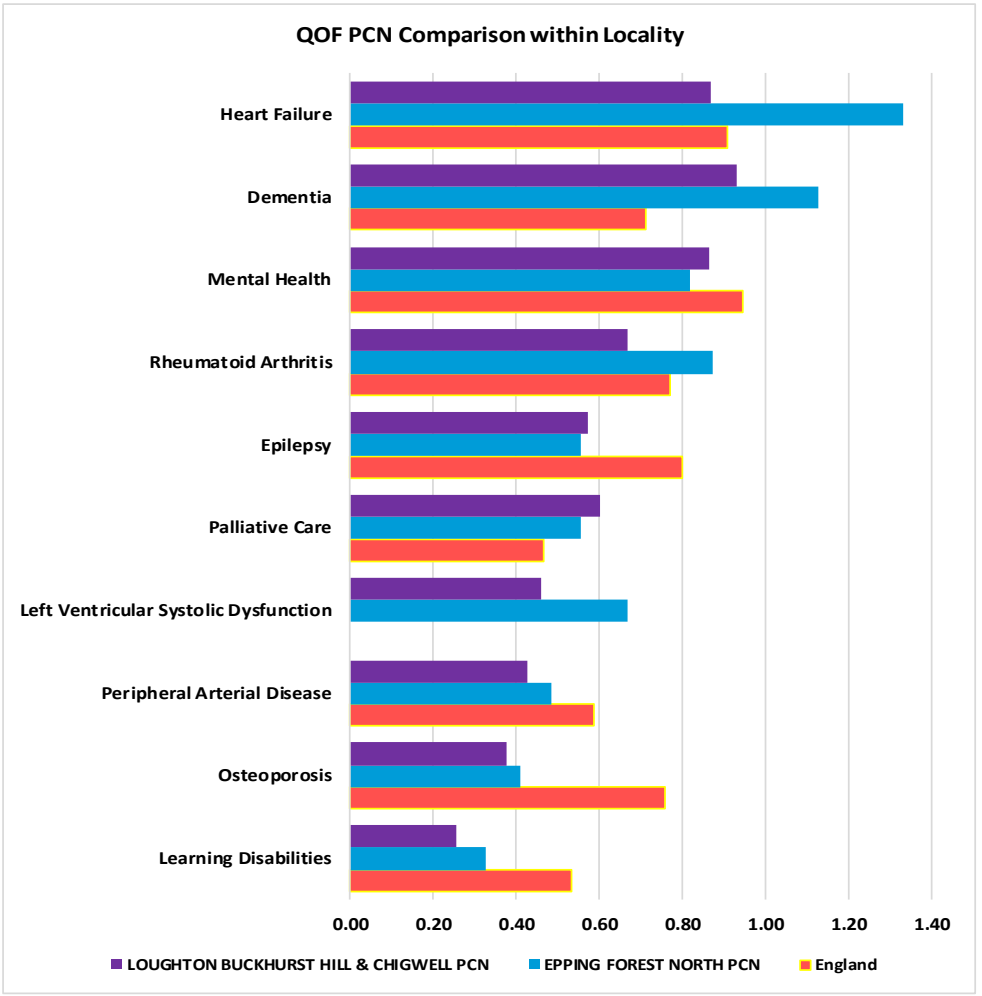
NHS Hertfordshire and West Essex Integrated Care Board

**Contents:**

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

# QOF - Locality & PCN Comparison



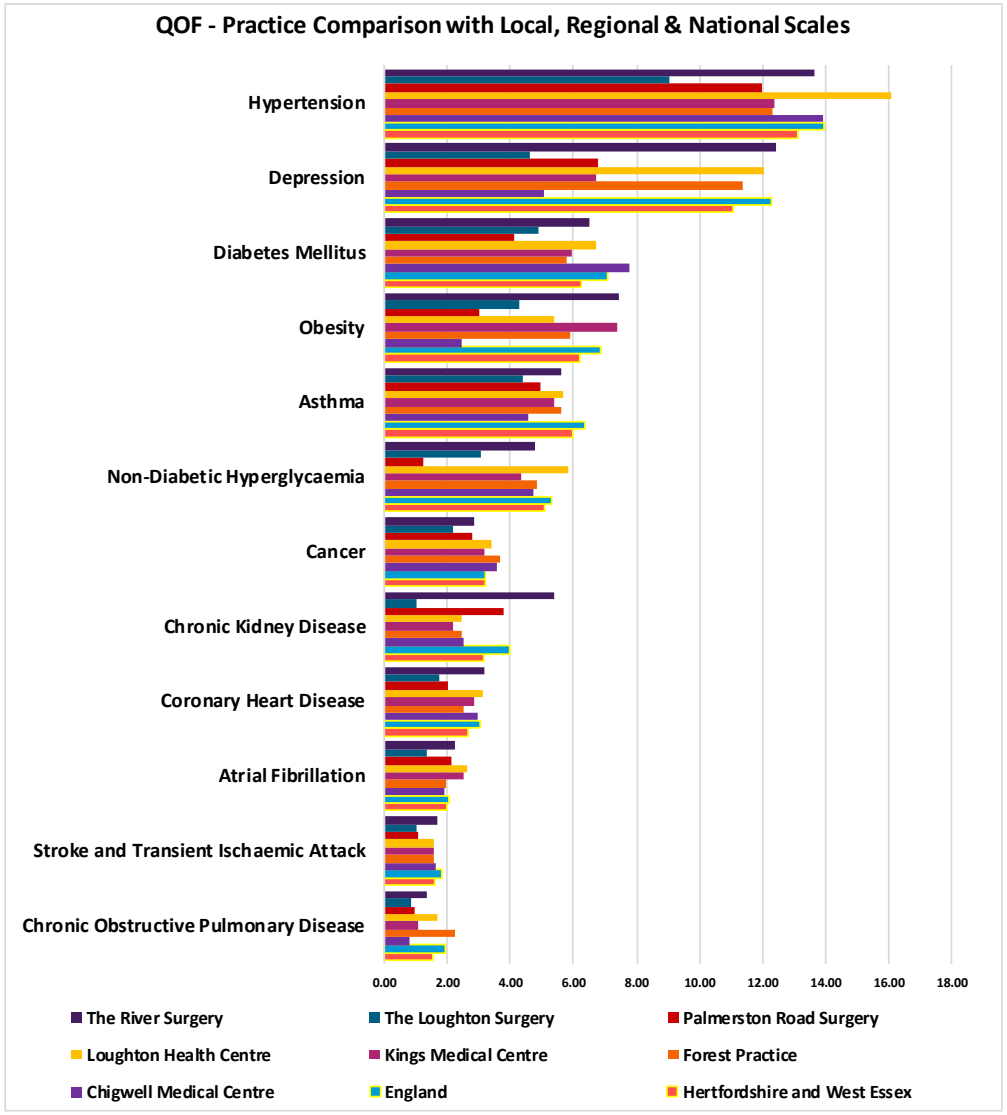



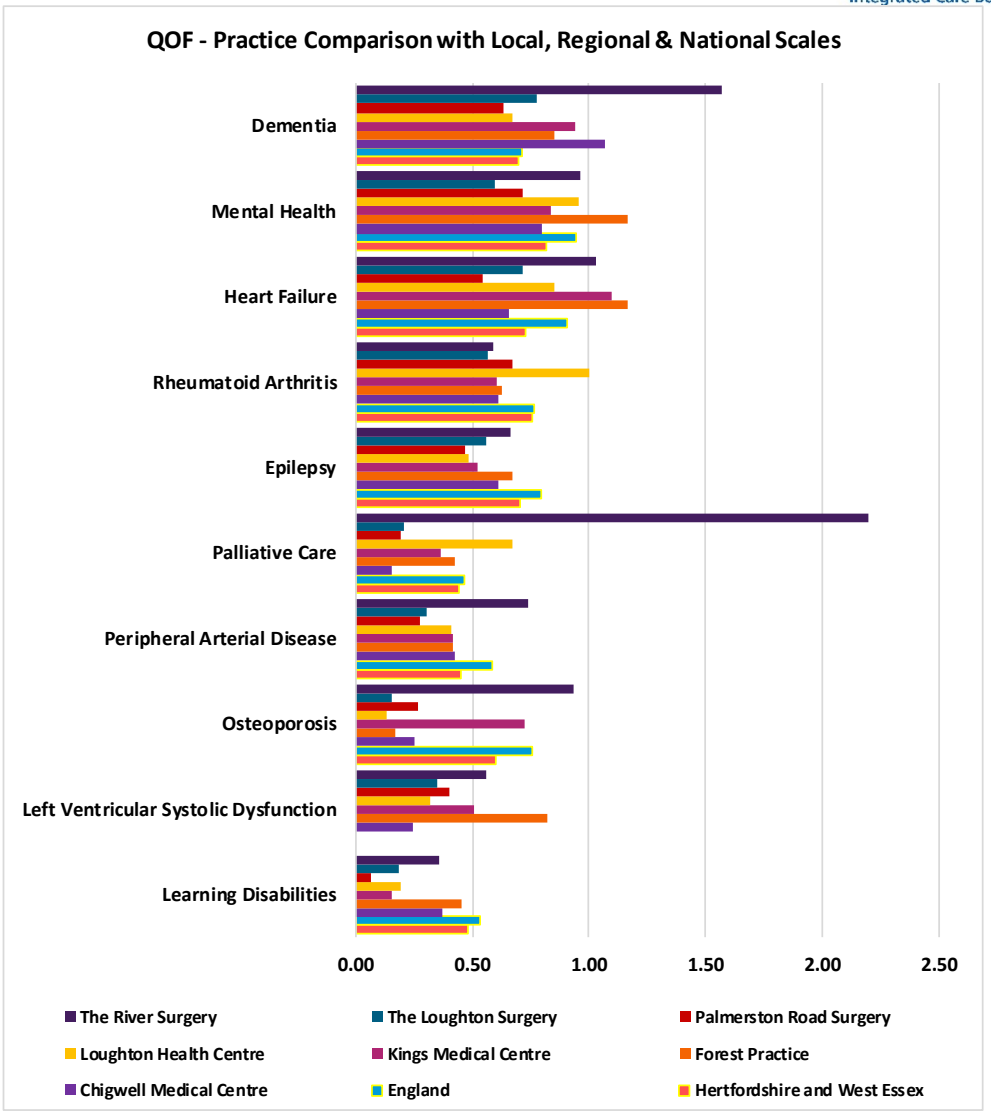

**The Quality and Outcome Framework incorporates important benchmarking and scoring for all Practices across the county; we have combined a number of local, regional, and national data sets to highlight the areas that the PCN will need to consider.**

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

Source: QOF National Figures, HWE PHM Team

# QOF - Local, Regional, & National Comparison




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

Source: QOF National Figures, HWE PHM Team

# QOF - Missed Diagnoses & Admission Rates

NHS Hertfordshire and West Essex Integrated Care Board

| 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 | 56670 | 3056 | 5.39% | 6.33% | 6.17% | | 530 | 439 | |
| COPD | 60918 | 785 | 1.29% | 1.61% | 1.49% | 1.98% | 195 | 120 | 423 |
| Diabetes | 48872 | 3021 | 6.18% | 6.84% | 6.39% | 8.13% | 322 | 100 | 953 |
| Non-diabetic hyperglyaemia | 48210 | 2274 | 4.72% | 6.49% | 5.87% | 11.59% | 853 | 556 | 3313 |
| Hypertension | 60918 | 7744 | 12.71% | 14.27% | 13.21% | | 947 | 305 | |
| Atrial Fibrillation | 60918 | 1301 | 2.14% | 2.12% | 2.02% | 2.54% | -12 | -70 | 248 |
| Stroke and TIA | 60918 | 896 | 1.47% | 1.60% | 1.61% | | 79 | 84 | |
| Coronary Heart Disease | 60918 | 1626 | 2.67% | 2.81% | 2.65% | | 87 | -10 | |
| Heart failure | 60918 | 523 | 0.86% | 0.97% | 0.75% | 1.40% | 68 | -63 | 333 |
| Left Ventricular Systolic Dysfunction | 60918 | 299 | 0.49% | 0.51% | 0.30% | | 13 | -117 | |
| Chronic Kidney Disease | 48210 | 1195 | 2.48% | 3.40% | 3.21% | | 442 | 351 | |
| Peripheral Arterial Disease | 60918 | 247 | 0.41% | 0.47% | 0.44% | | 38 | 23 | |
| Cancer | 60918 | 1984 | 3.26% | 3.30% | 3.35% | | 26 | 54 | |
| Palliative care | 60918 | 352 | 0.58% | 0.49% | 0.43% | | -56 | -91 | |

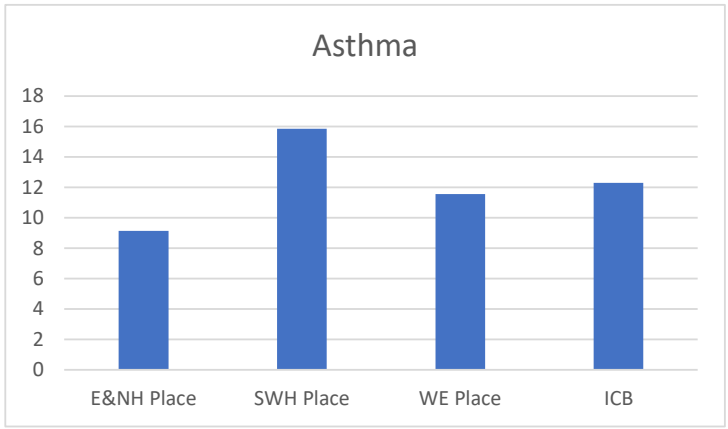
**The table above shows the latest prevalence (2021/22 published August 20222) for the PCN alongside the place prevalence, ICB prevalence and the modelled prevalence for the PCN.**

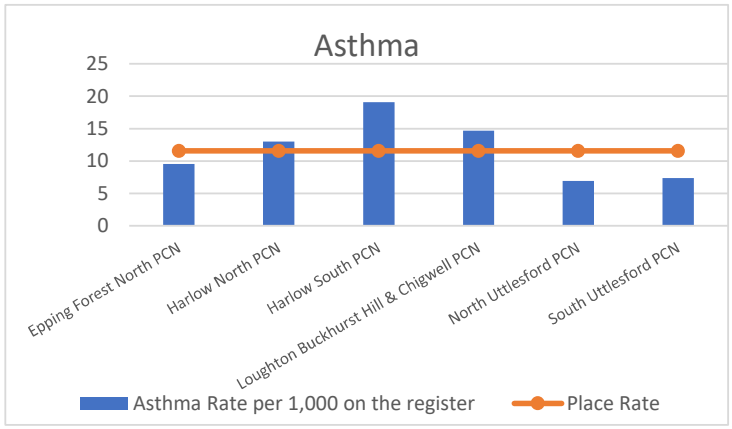
**This table shows opportunities for further identification. It outlines the diagnoses to meet the place, ICB and estimated prevalence.**

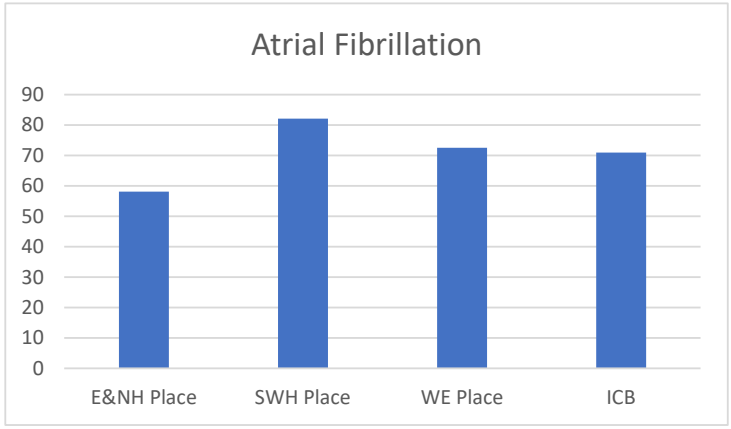
**Within Ardens Manager there are case finding searches that can support PCN with identification.**

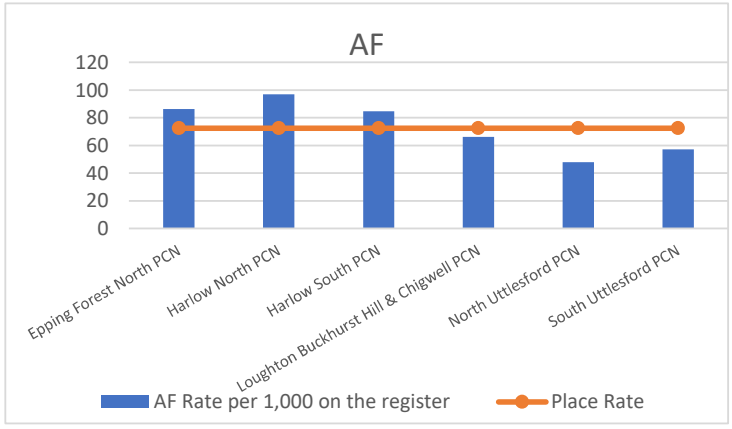
Source: QOF National Figures, HWE PHM Team

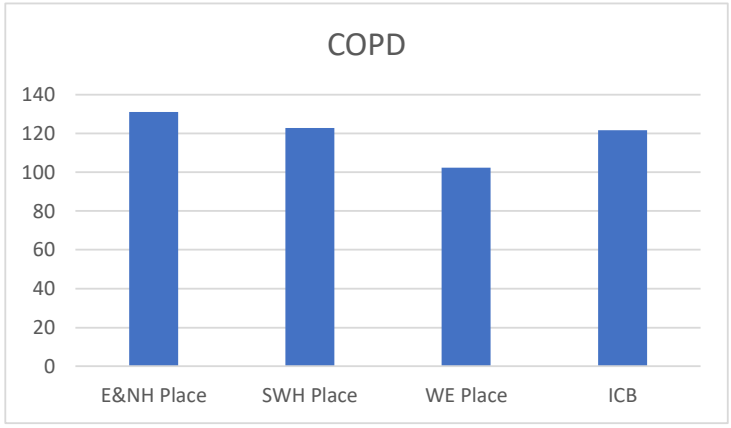
# Emergency Admission Rates per 1,000 population on the Disease Register

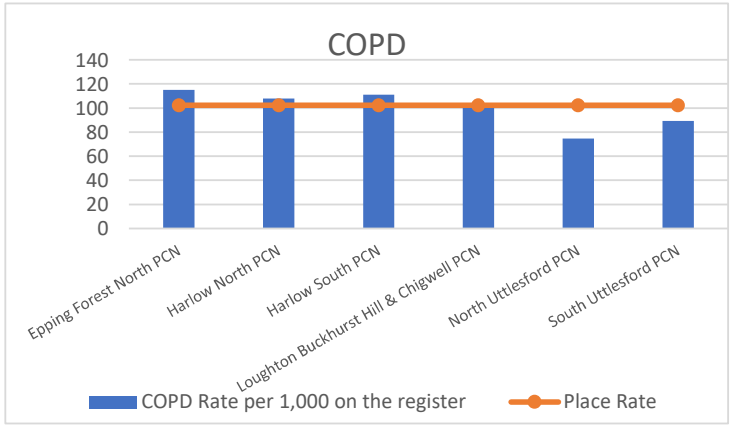



**The charts on the left shows the Emergency Admissions Rates per 1,000 population on the disease register.**

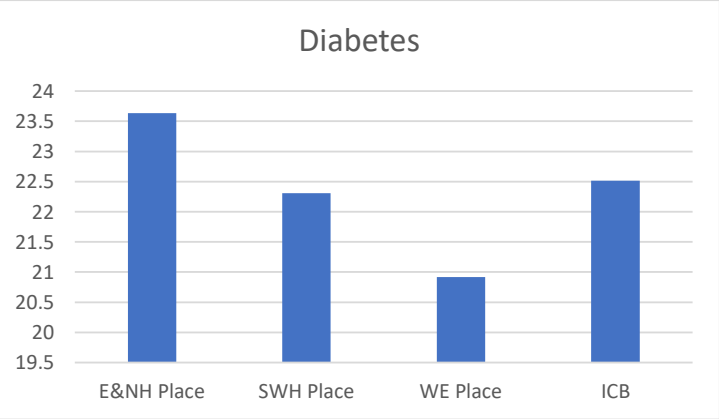
**It shows the places compared with the ICB on the left and on the right it show the PCNs within a Place; these are continued on the following page.**

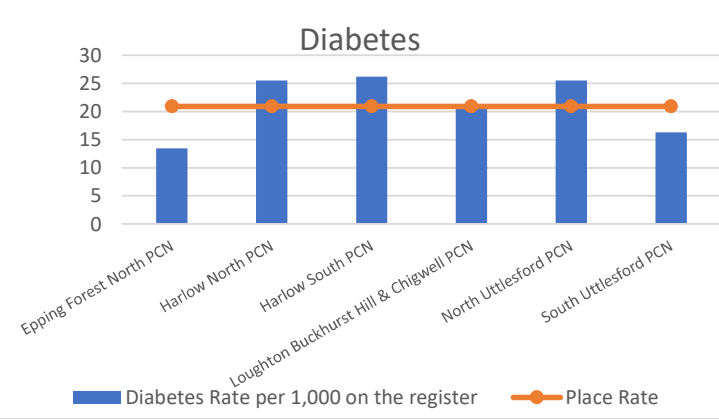
**Rates may be high due to a number of factors which may include low identification.**

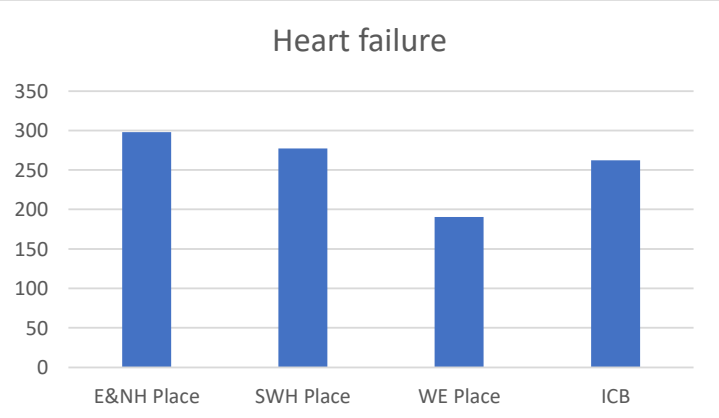
**For LBC the data shows higher rates for Asthma and slightly higher rates for Heart Failure which was identified as a theme within the ACS analysis.**

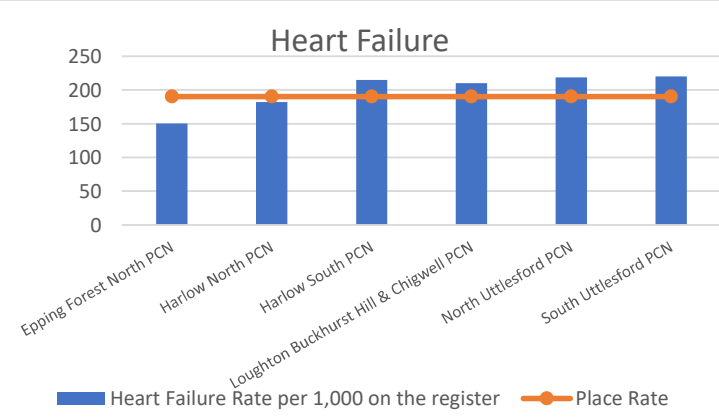
Source: HWE PHM Team, SUS data

# 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 Data - Ethnicity

NHS Hertfordshire and West Essex Integrated Care Board

| Ethnicity Group | Other Ethnic Groups | | | Asian | | | Asian or Asian British | | Black | | | Mixed | | | Other | | | White | | | Unknown | | | Grand Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Complexity | Low Complexi | Middle Complexi | High Complexi | Low Complexi | Middle Complexi | High Complexi | Low Complexi | Middle Complexi | Low Complexi | Middle Complexi | High Complexi | Low Complexi | Middle Complexi | High Complexi | Low Complexi | Middle Complexi | High Complexi | Low Complexi | Middle Complexi | High Complexi | Low Complexi | Middle Complexi | High Complexi | |
| **Overall Population Measures** | | | | | | | | | | | | | | | | | | | | | | | | |
| Population | 349 | 106 | | 856 | 442 | 61 | 80 | 30 | 231 | 129 | | 365 | 119 | | 234 | 171 | 12 | 8,489 | 5,879 | 894 | 2,444 | 610 | 16 | **21,528** |
| Age | 34 | 48 | 86 | 29 | 49 | 69 | 30 | 48 | 32 | 50 | 64 | 19 | 34 | 53 | 36 | 53 | 81 | 34 | 54 | 75 | 35 | 46 | 77 | **42** |
| Male % | 52.7% | 46.2% | ##### | 49.4% | 44.3% | 59.0% | 65.0% | 56.7% | 51.1% | 47.3% | 40.0% | 47.1% | 47.9% | 25.0% | 47.9% | 43.9% | 25.0% | 50.3% | 44.4% | 48.4% | 60.3% | 57.7% | 50.0% | **49.8%** |
| IMD | 8.2 | 8.5 | 7.0 | 7.9 | 8.0 | 8.0 | 8.8 | 8.6 | 6.8 | 7.1 | 6.6 | 7.6 | 7.2 | 6.8 | 7.1 | 7.8 | 8.2 | 7.4 | 7.4 | 7.4 | 7.2 | 7.7 | 8.9 | **7.5** |
| % BAME (where recorded) | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 0% | 0% | 0% | | | | **17%** |
| Multimorbidity (acute & chronic) | 0.0 | 1.4 | 6.0 | 0.0 | 1.7 | 6.4 | 0.0 | 1.4 | 0.0 | 1.7 | 5.8 | 0.0 | 1.5 | 6.3 | 0.0 | 1.9 | 6.2 | 0.0 | 1.8 | 6.5 | 0.0 | 1.5 | 5.8 | **0.9** |
| **Finance and Activity Measures** | | | | | | | | | | | | | | | | | | | | | | | | |
| Spend: Total | £0.0M | £0.0M | £0.0M | £0.3M | £0.4M | £0.3M | £0.0M | £0.0M | £0.1M | £0.2M | £0.0M | £0.1M | £0.1M | £0.0M | £0.1M | £0.2M | £0.0M | £2.4M | £5.6M | £4.1M | £0.1M | £0.1M | £0.0M | ##### |
| PPPY - Total | £98 | £300 | £1,381 | £305 | £998 | £4,581 | £106 | £278 | £283 | £1,280 | £2,181 | £309 | £772 | £4,869 | £441 | £942 | £2,252 | £281 | £946 | £4,546 | £60 | £161 | £405 | **£654** |
| Acute Elective | £18 | £148 | £0 | £122 | £536 | £1,650 | £29 | £76 | £130 | £522 | £576 | £96 | £271 | £444 | £208 | £462 | £1,349 | £107 | £442 | £1,659 | £19 | £44 | £104 | **£272** |
| Acute Non-Elective | £23 | £30 | £473 | £99 | £283 | £2,557 | £4 | £73 | £85 | £564 | £1,014 | £133 | £354 | £4,130 | £143 | £290 | £624 | £99 | £332 | £2,524 | £5 | £25 | £29 | **£268** |
| GP Encounters | £57 | £122 | £908 | £84 | £179 | £374 | £73 | £130 | £67 | £193 | £591 | £80 | £147 | £295 | £90 | £190 | £280 | £75 | £171 | £363 | £36 | £93 | £272 | **£115** |
| Community | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | **£0** |
| Mental Health | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | **£0** |
| Social Care | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | **£0** |
| GP PPPY | 20 | 41 | 314 | 25 | 52 | 119 | 28 | 50 | 19 | 57 | 155 | 25 | 42 | 81 | 25 | 58 | 92 | 21 | 49 | 108 | 11 | 31 | 103 | 33 |
| Beddays PPPY - Acute EM | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 1 | 2 | 0 | 1 | 5 | 0 | 0 | 2 | **0** |
| **Physical Health** | | | | | | | | | | | | | | | | | | | | | | | | |
| Diabetes | 0.0% | 30.2% | 50.0% | 0.0% | 27.6% | 75.4% | 0.0% | 26.7% | 0.0% | 24.8% | 80.0% | 0.0% | 11.8% | 50.0% | 0.0% | 19.3% | 50.0% | 0.0% | 14.6% | 42.5% | 0.0% | 11.3% | 62.5% | **7.5%** |
| COPD | 0.0% | 0.0% | 50.0% | 0.0% | 0.5% | 18.0% | 0.0% | 0.0% | 0.0% | 0.8% | 0.0% | 0.0% | 0.0% | 50.0% | 0.0% | 1.2% | 25.0% | 0.0% | 1.5% | 24.9% | 0.0% | 0.0% | 12.5% | **1.6%** |
| Chronic Respiratory Dis... | 0.0% | 0.9% | 50.0% | 0.0% | 0.9% | 26.2% | 0.0% | 0.0% | 0.0% | 2.3% | 0.0% | 0.0% | 5.0% | 50.0% | 0.0% | 4.7% | 33.3% | 0.0% | 2.7% | 32.1% | 0.0% | 0.3% | 18.8% | **2.3%** |
| Hypertension | 0.0% | 19.8% | 100.0% | 0.0% | 26.9% | 88.5% | 0.0% | 20.0% | 0.0% | 33.3% | 100.0% | 0.0% | 11.8% | 75.0% | 0.0% | 33.3% | 66.7% | 0.0% | 26.3% | 80.3% | 0.0% | 18.2% | 93.8% | **12.6%** |
| Obesity | 1.7% | 3.8% | 0.0% | 2.3% | 9.3% | 31.1% | 3.8% | 6.7% | 3.0% | 12.4% | 20.0% | 1.6% | 8.4% | 0.0% | 3.4% | 12.3% | 33.3% | 3.9% | 15.3% | 29.5% | 1.7% | 11.1% | 18.8% | **8.2%** |
| **Mental Health** | | | | | | | | | | | | | | | | | | | | | | | | |
| Anxiety/Phobias | 0.0% | 20.8% | 0.0% | 0.0% | 18.1% | 16.4% | 0.0% | 20.0% | 0.0% | 14.0% | 20.0% | 0.0% | 31.1% | 0.0% | 0.0% | 20.5% | 50.0% | 0.0% | 27.5% | 36.8% | 0.0% | 33.3% | 37.5% | **11.0%** |
| Depression | 0.0% | 16.0% | 50.0% | 0.0% | 18.1% | 26.2% | 0.0% | 20.0% | 0.0% | 20.9% | 60.0% | 0.0% | 23.5% | 25.0% | 0.0% | 25.1% | 41.7% | 0.0% | 28.8% | 43.2% | 0.0% | 28.0% | 50.0% | **11.5%** |
| Learning Disability | 0.0% | 0.0% | 0.0% | 0.0% | 0.2% | 3.3% | 0.0% | 0.0% | 0.0% | 0.8% | 0.0% | 0.0% | 2.5% | 25.0% | 0.0% | 0.6% | 0.0% | 0.0% | 0.8% | 1.3% | 0.0% | 0.5% | 6.3% | **0.3%** |
| Dementia | 0.0% | 0.0% | 50.0% | 0.0% | 0.7% | 6.6% | 0.0% | 3.3% | 0.0% | 0.8% | 20.0% | 0.0% | 0.0% | 0.0% | 0.0% | 2.3% | 0.0% | 0.0% | 1.2% | 13.0% | 0.0% | 1.0% | 18.8% | **1.0%** |
| **Other Characteristics** | | | | | | | | | | | | | | | | | | | | | | | | |
| Housebound (eFI) | 0.0% | 0.0% | 0.0% | 0.0% | 0.9% | 3.3% | 0.0% | 3.3% | 0.0% | 0.0% | 20.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.6% | 0.0% | 0.0% | 0.6% | 6.3% | 0.0% | 0.0% | 18.8% | **0.5%** |
| Social Vulnerability (eFI) | 0.0% | 0.9% | 0.0% | 0.1% | 1.1% | 13.1% | 0.0% | 0.0% | 0.9% | 3.1% | 20.0% | 0.3% | 1.7% | 0.0% | 0.0% | 2.9% | 16.7% | 0.2% | 2.5% | 12.3% | 0.1% | 0.5% | 12.5% | **1.5%** |
| History of Smoking (Tw... | 3.2% | 6.6% | 0.0% | 1.2% | 2.5% | 6.6% | 5.0% | 3.3% | 1.3% | 5.4% | 0.0% | 1.9% | 6.7% | 0.0% | 3.0% | 5.8% | 0.0% | 2.4% | 5.9% | 6.8% | 1.5% | 3.3% | 12.5% | **3.5%** |
| Not Fit for Work (In Year) | 0.0% | 0.0% | 0.0% | 0.6% | 4.5% | 4.9% | 1.3% | 3.3% | 1.3% | 3.9% | 0.0% | 0.3% | 5.0% | 0.0% | 2.6% | 5.3% | 0.0% | 1.2% | 3.5% | 2.5% | 0.3% | 2.1% | 0.0% | **1.9%** |
| On a Waiting List | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | **0.0%** |

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

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

# Matrix Data - Segment & Sub-Segment

NHS Hertfordshire and West Essex Integrated Care Board

| Life Course Segment | 1 - Healthy | | | 2 - Living With Illness | | | 3 - Lower Complexity | | | 4 - Advanced Disease & Complexity | | | 5 - EoL, Frailty & Dementia | | | Grand Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Life Course Subsegment | 1a - H (Low Risk) | 1b - H (Maternity & Child) | 1c - H (Acute Episodic) | 2a - Lwl (At Risk) | 2b - Lwl (LTCs) | 2c - Lwl (MH) | 3a - LC (Mod. Social Co.. | 3b - LC (Multimorbidity | 3c - LC (Mild Frailty) | 4a - AD&C (High Complexity) | 4b - AD&C - High Social Complexity | 4e - AD&C (End Stage Disease) | 5a - EoLFD (Severe Frailty) | 5b - EoLFD (Severe Dementia) | 5c - EoLFD (End of Life) | |
| **Overall Population Measures** | | | | | | | | | | | | | | | | |
| Population | 10,487 | 321 | 603 | 1,247 | 2,505 | 773 | 98 | 2,255 | 1,286 | 981 | 97 | 294 | 351 | 13 | 217 | **21,528** |
| Age | 32 | 21 | 27 | 45 | 48 | 41 | 50 | 52 | 61 | 65 | 68 | 70 | 80 | 78 | 76 | **42** |
| Male % | 54.4% | 21.2% | 50.2% | 46.4% | 53.1% | 38.9% | 54.1% | 45.2% | 39.0% | 45.0% | 43.3% | 49.7% | 37.6% | 38.5% | 40.1% | **49.8%** |
| IMD | 7.4 | 7.4 | 7.1 | 7.7 | 7.5 | 7.6 | 7.6 | 7.2 | 7.8 | 7.6 | 7.4 | 6.9 | 7.9 | 7.5 | 7.8 | **7.5** |
| % BAME (where recorded) | 20% | 23% | 20% | 16% | 17% | 13% | 13% | 13% | 15% | 11% | 19% | 12% | 8% | 0% | 10% | **17%** |
| Multimorbidity (acute & chronic) | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 0.4 | 2.4 | 2.0 | 3.8 | 3.0 | 4.8 | 5.8 | 4.9 | 5.0 | **0.9** |
| **Finance and Activity Measures** | | | | | | | | | | | | | | | | |
| Spend — Total | £1.0M | £0.4M | £0.8M | £0.7M | £1.3M | £0.3M | £0.1M | £1.8M | £1.6M | £2.1M | £0.1M | £0.9M | £1.6M | £0.1M | £1.3M | **£14.1M** |
| PPPY - Total | £98 | £1,182 | £1,321 | £538 | £529 | £372 | £511 | £801 | £1,217 | £2,173 | £1,357 | £2,999 | £4,664 | £6,751 | £6,032 | **£654** |
| Acute Elective | £31 | £416 | £584 | £218 | £252 | £155 | £193 | £392 | £633 | £960 | £603 | £1,234 | £1,648 | £211 | £1,622 | **£272** |
| Acute Non-Elective | £12 | £622 | £603 | £214 | £152 | £111 | £198 | £241 | £383 | £952 | £467 | £1,475 | £2,614 | £5,980 | £4,025 | **£268** |
| GP Encounters | £55 | £143 | £134 | £107 | £125 | £106 | £119 | £168 | £201 | £261 | £287 | £290 | £401 | £559 | £385 | **£115** |
| Community | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | **£0** |
| Mental Health | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | **£0** |
| Social Care | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | **£0** |
| GP PPPY | 15 | 43 | 33 | 36 | 34 | 34 | 41 | 45 | 63 | 81 | 105 | 72 | 138 | 196 | 128 | **33** |
| Beddays PPPY - Acute EM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 3 | 4 | 37 | 9 | **0** |
| **Physical Health** | | | | | | | | | | | | | | | | |
| Diabetes | 0.0% | 0.0% | 0.0% | 0.0% | 13.5% | 0.0% | 4.1% | 17.4% | 20.8% | 28.1% | 24.7% | 27.6% | 46.7% | 30.8% | 30.4% | **7.5%** |
| COPD | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 1.2% | 0.9% | 5.3% | 3.1% | 48.0% | 16.5% | 15.4% | 18.0% | **1.6%** |
| Chronic Respiratory Dis... | 0.0% | 0.0% | 0.0% | 0.0% | 0.9% | 0.0% | 0.0% | 2.5% | 2.0% | 8.2% | 4.1% | 56.5% | 23.4% | 15.4% | 25.3% | **2.3%** |
| Hypertension | 0.0% | 0.0% | 0.0% | 0.0% | 17.9% | 0.0% | 7.1% | 24.8% | 40.4% | 56.1% | 44.3% | 60.5% | 81.2% | 46.2% | 57.6% | **12.6%** |
| Obesity | 0.0% | 0.0% | 0.0% | 30.1% | 9.4% | 7.9% | 15.3% | 13.8% | 21.3% | 26.0% | 24.7% | 21.1% | 33.0% | 15.4% | 19.4% | **8.2%** |
| **Mental Health** | | | | | | | | | | | | | | | | |
| Anxiety/Phobias | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 53.9% | 4.1% | 52.7% | 18.6% | 30.3% | 21.6% | 25.5% | 23.6% | 15.4% | 18.9% | **11.0%** |
| Depression | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 38.4% | 7.1% | 54.6% | 23.3% | 36.1% | 30.9% | 30.6% | 34.5% | 7.7% | 25.3% | **11.5%** |
| Learning Disability | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 1.6% | 1.0% | 0.9% | 0.4% | 0.9% | 15.5% | 0.0% | 0.6% | 7.7% | 1.8% | **0.3%** |
| Dementia | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 8.5% | 9.3% | 5.1% | 12.3% | 100.0% | 21.7% | **1.0%** |
| **Other Characteristics** | | | | | | | | | | | | | | | | |
| Housebound (eFI) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 24.7% | 0.0% | 10.8% | 15.4% | 18.9% | **0.5%** |
| Social Vulnerability (eFI) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 51.0% | 0.8% | 3.1% | 4.6% | 23.7% | 5.4% | 27.1% | 15.4% | 11.5% | **1.5%** |
| History of Smoking (Tw... | 0.0% | 0.0% | 0.0% | 20.4% | 3.3% | 8.2% | 9.2% | 5.4% | 6.1% | 9.8% | 7.2% | 5.8% | 6.6% | 0.0% | 4.6% | **3.5%** |
| Not Fit for Work (In Year) | 0.0% | 0.0% | 0.0% | 8.3% | 1.5% | 4.9% | 8.2% | 4.4% | 4.4% | 4.9% | 2.1% | 2.0% | 1.4% | 0.0% | 1.8% | **1.9%** |
| On a Waiting List | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | **0.0%** |

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

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

# Matrix Data - GP Activity

NHS Hertfordshire and West Essex Integrated Care Board

| GP Activity | 0 | | | 1 | | 2-3 | | 4-5 | | | 6-9 | | | 10+ | | | Grand Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Complexity | Low Complexity | Middle Complexity | High Complexity | Low Complexity | Middle Complexity | Low Complexity | Middle Complexity | Low Complexity | Middle Complexity | High Complexity | Low Complexity | Middle Complexity | High Complexity | Low Complexity | Middle Complexity | High Complexity | |
| **Overall Population Measures** | | | | | | | | | | | | | | | | | |
| Population | 1,125 | 95 | 6 | 410 | 25 | 1,000 | 103 | 969 | 141 | | 2,050 | 393 | | 7,494 | 6,729 | 982 | **21,528** |
| Age | 31 | 42 | 70 | 22 | 34 | 24 | 33 | 25 | 35 | 78 | 31 | 40 | 81 | 37 | 54 | 75 | **42** |
| Male % | 64.4% | 67.4% | 83.3% | 59.0% | 68.0% | 61.9% | 66.0% | 63.3% | 58.9% | 50.0% | 58.1% | 60.6% | 25.0% | 45.6% | 43.8% | 48.7% | **49.8%** |
| IMD | 6.4 | 6.4 | 7.0 | 7.2 | 6.7 | 7.1 | 7.0 | 7.5 | 7.0 | 10.0 | 7.4 | 6.9 | 7.3 | 7.6 | 7.6 | 7.4 | **7.5** |
| % BAME (where recorded) | 21% | 13% | 0% | 16% | 15% | 17% | 18% | 17% | 13% | 0% | 19% | 14% | 0% | 21% | 15% | 9% | **17%** |
| Multimorbidity (acute & chronic) | 0.0 | 1.5 | 7.2 | 0.0 | 1.4 | 0.0 | 1.4 | 0.0 | 1.4 | 5.5 | 0.0 | 1.3 | 5.8 | 0.0 | 1.8 | 6.5 | **0.9** |
| **Finance and Activity Measures** | | | | | | | | | | | | | | | | | |
| Spend: Total | £0.0M | £0.0M | £0.0M | £0.0M | £0.0M | £0.0M | £0.0M | £0.1M | £0.0M | £0.0M | £0.2M | £0.0M | £0.0M | £2.8M | £6.5M | £4.4M | **£14.1M** |
| PPPY - Total | £26 | £314 | £8,107 | £17 | £11 | £28 | £34 | £65 | £118 | £20 | £99 | £120 | £68 | £372 | £960 | £4,441 | **£654** |
| Acute Elective | £17 | £172 | £4,687 | £7 | £6 | £10 | £16 | £14 | £82 | £0 | £41 | £47 | £27 | £141 | £448 | £1,607 | **£272** |
| Acute Non-Elective | £9 | £142 | £3,420 | £5 | £0 | £7 | £8 | £32 | £18 | £0 | £26 | £37 | £0 | £127 | £332 | £2,467 | **£268** |
| GP Encounters | £0 | £0 | £0 | £5 | £5 | £11 | £11 | £19 | £18 | £20 | £33 | £35 | £42 | £105 | £181 | £367 | **£115** |
| Community | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | **£0** |
| Mental Health | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | **£0** |
| Social Care | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | **£0** |
| GP PPPY | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 5 | 4 | 5 | 8 | 8 | 9 | 31 | 53 | 110 | **33** |
| Beddays PPPY - Acute EM | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | **0** |
| **Physical Health** | | | | | | | | | | | | | | | | | |
| Diabetes | 0.0% | 7.4% | 33.3% | 0.0% | 0.0% | 0.0% | 2.9% | 0.0% | 2.8% | 0.0% | 0.0% | 2.3% | 25.0% | 0.0% | 17.0% | 45.4% | **7.5%** |
| COPD | 0.0% | 1.1% | 50.0% | 0.0% | 0.0% | 0.0% | 1.0% | 0.0% | 0.7% | 50.0% | 0.0% | 0.3% | 0.0% | 0.0% | 1.3% | 24.2% | **1.6%** |
| Chronic Respiratory Dis... | 0.0% | 3.2% | 66.7% | 0.0% | 0.0% | 0.0% | 1.0% | 0.0% | 0.7% | 50.0% | 0.0% | 0.5% | 0.0% | 0.0% | 2.6% | 31.4% | **2.3%** |
| Hypertension | 0.0% | 22.1% | 83.3% | 0.0% | 0.0% | 0.0% | 3.9% | 0.0% | 2.8% | 50.0% | 0.0% | 3.6% | 25.0% | 0.0% | 27.8% | 81.3% | **12.6%** |
| Obesity | 0.5% | 6.3% | 50.0% | 0.0% | 0.0% | 0.4% | 2.9% | 0.4% | 2.8% | 50.0% | 1.0% | 4.3% | 0.0% | 5.2% | 15.3% | 29.2% | **8.2%** |
| **Mental Health** | | | | | | | | | | | | | | | | | |
| Anxiety/Phobias | 0.0% | 28.4% | 0.0% | 0.0% | 48.0% | 0.0% | 38.8% | 0.0% | 37.6% | 0.0% | 0.0% | 34.9% | 50.0% | 0.0% | 25.9% | 35.6% | **11.0%** |
| Depression | 0.0% | 23.2% | 16.7% | 0.0% | 36.0% | 0.0% | 36.9% | 0.0% | 30.5% | 0.0% | 0.0% | 25.7% | 50.0% | 0.0% | 27.5% | 42.5% | **11.5%** |
| Learning Disability | 0.0% | 1.1% | 0.0% | 0.0% | 0.0% | 0.0% | 1.0% | 0.0% | 0.7% | 0.0% | 0.0% | 1.0% | 0.0% | 0.0% | 0.7% | 1.6% | **0.3%** |
| Dementia | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.5% | 25.0% | 0.0% | 1.2% | 12.6% | **1.0%** |
| **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% | 0.1% | 0.6% | 6.3% | **0.5%** |
| Social Vulnerability (eFI) | 0.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.7% | 0.0% | 0.0% | 0.5% | 0.0% | 0.3% | 2.4% | 12.5% | **1.5%** |
| History of Smoking (Tw... | 0.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.6% | 1.9% | 0.3% | 0.7% | 0.0% | 1.1% | 2.0% | 0.0% | 3.3% | 6.0% | 6.8% | **3.5%** |
| Not Fit for Work (In Year) | 0.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.2% | 0.0% | 0.0% | 1.6% | 3.9% | 2.5% | **1.9%** |
| On a Waiting List | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | **0.0%** |

**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.**

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

# Matrix Data - Health Segment & Deprivation

NHS Hertfordshire and West Essex Integrated Care Board

| 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 | Not known | |
| **Overall Population Measures** | | | | | | | | | | | | | | | | | | | | | |
| Population | 6,807 | 3,870 | 659 | 75 | 2,796 | 1,460 | 220 | 49 | 2,199 | 1,226 | 189 | 25 | 808 | 490 | 64 | 10 | 356 | 206 | 17 | | **21,528** |
| Age | 32 | 31 | 35 | 39 | 46 | 45 | 43 | 49 | 57 | 52 | 50 | 53 | 68 | 64 | 63 | 69 | 79 | 78 | 71 | 76 | **42** |
| Male % | 52.6% | 52.9% | 60.4% | 66.7% | 48.6% | 49.4% | 49.1% | 42.9% | 43.0% | 44.1% | 42.9% | 24.0% | 47.6% | 42.2% | 54.7% | 20.0% | 38.5% | 39.8% | 29.4% | 0.0% | **49.8%** |
| IMD | 9.1 | 5.3 | 2.4 | | 9.1 | 5.4 | 2.4 | | 9.1 | 5.4 | 2.4 | | 9.1 | 5.5 | 2.4 | | 9.2 | 5.8 | 2.8 | | **7.5** |
| % BAME (where recorded) | 22% | 17% | 21% | 12% | 17% | 16% | 18% | 9% | 15% | 12% | 8% | 8% | 12% | 12% | 5% | 10% | 9% | 7% | 12% | 50% | **17%** |
| Multimorbidity (acute & chronic) | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 | 2.2 | 2.2 | 2.3 | 2.6 | 3.9 | 4.0 | 4.7 | 3.0 | 5.3 | 5.7 | 6.2 | 5.0 | **0.9** |
| **Finance and Activity Measures** | | | | | | | | | | | | | | | | | | | | | |
| Spend - Total | £1.3M | £0.8M | £0.1M | £0.0M | £1.4M | £0.8M | £0.1M | £0.0M | £2.0M | £1.2M | £0.2M | £0.0M | £1.7M | £1.2M | £0.2M | £0.0M | £1.9M | £1.0M | £0.1M | £0.0M | **£14.1M** |
| Spend - PPPY - Total | £189 | £204 | £183 | £108 | £491 | £524 | £620 | £177 | £924 | £951 | £1,130 | £347 | £2,126 | £2,389 | £3,825 | £1,187 | £5,326 | £4,900 | £7,385 | £1,279 | **£654** |
| Acute Elective | £68 | £78 | £71 | £40 | £218 | £238 | £293 | £68 | £468 | £498 | £394 | £118 | £920 | £1,051 | £1,513 | £771 | £1,602 | £1,644 | £1,348 | £649 | **£272** |
| Acute Non-Elective | £59 | £65 | £58 | £15 | £157 | £172 | £199 | £11 | £280 | £273 | £540 | £89 | £946 | £1,057 | £2,009 | £204 | £3,323 | £2,867 | £5,543 | £423 | **£268** |
| GP Encounters | £63 | £62 | £54 | £53 | £117 | £114 | £128 | £98 | £177 | £179 | £195 | £140 | £260 | £281 | £303 | £212 | £401 | £390 | £493 | £208 | **£115** |
| Community | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | **£0** |
| Mental Health | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | **£0** |
| Social Care | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | **£0** |
| GP PPPY | 17 | 17 | 12 | 19 | 35 | 32 | 32 | 37 | 53 | 48 | 45 | 47 | 82 | 80 | 68 | 79 | 137 | 131 | 169 | 71 | **33** |
| Beddays PPPY - Acute EM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 2 | 3 | 4 | 0 | 7 | 6 | 17 | 0 | **0** |
| **Physical Health** | | | | | | | | | | | | | | | | | | | | | |
| Diabetes | 0.0% | 0.0% | 0.0% | 0.0% | 7.4% | 7.7% | 8.6% | 0.0% | 18.2% | 18.1% | 17.5% | 32.0% | 27.0% | 29.2% | 28.1% | 20.0% | 39.9% | 39.8% | 47.1% | 100.0% | **7.5%** |
| COPD | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.9% | 1.5% | 1.1% | 0.0% | 11.8% | 17.3% | 23.4% | 10.0% | 15.2% | 19.9% | 23.5% | 0.0% | **1.6%** |
| Chronic Respiratory Dis... | 0.0% | 0.0% | 0.0% | 0.0% | 0.5% | 0.5% | 0.5% | 0.0% | 1.8% | 2.9% | 2.1% | 8.0% | 16.1% | 20.6% | 26.6% | 20.0% | 23.0% | 25.2% | 29.4% | 0.0% | **2.3%** |
| Hypertension | 0.0% | 0.0% | 0.0% | 0.0% | 9.6% | 10.1% | 10.9% | 16.3% | 32.3% | 26.4% | 22.8% | 36.0% | 57.5% | 52.9% | 65.6% | 50.0% | 71.9% | 70.4% | 76.5% | 100.0% | **12.6%** |
| Obesity | 0.0% | 0.0% | 0.0% | 0.0% | 14.4% | 15.9% | 11.8% | 20.4% | 16.0% | 17.9% | 10.6% | 32.0% | 23.8% | 26.3% | 26.6% | 30.0% | 28.4% | 28.2% | 5.9% | 0.0% | **8.2%** |
| **Mental Health** | | | | | | | | | | | | | | | | | | | | | |
| Anxiety/Phobias | 0.0% | 0.0% | 0.0% | 0.0% | 8.9% | 10.5% | 5.5% | 4.1% | 35.6% | 43.9% | 54.5% | 28.0% | 26.7% | 31.0% | 34.4% | 30.0% | 20.8% | 23.3% | 23.5% | 0.0% | **11.0%** |
| Depression | 0.0% | 0.0% | 0.0% | 0.0% | 6.6% | 6.4% | 3.2% | 24.5% | 36.8% | 49.0% | 60.3% | 52.0% | 31.1% | 39.4% | 42.2% | 30.0% | 28.4% | 33.0% | 41.2% | 50.0% | **11.5%** |
| Learning Disability | 0.0% | 0.0% | 0.0% | 0.0% | 0.2% | 0.3% | 0.0% | 2.0% | 0.6% | 1.0% | 0.5% | 0.0% | 1.2% | 2.7% | 1.6% | 0.0% | 1.7% | 0.5% | 0.0% | 0.0% | **0.3%** |
| 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% | 7.9% | 8.0% | 6.3% | 0.0% | 14.3% | 24.3% | 11.8% | 0.0% | **1.0%** |
| **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% | 1.5% | 2.4% | 0.0% | 0.0% | 14.9% | 13.1% | 5.9% | 0.0% | **0.5%** |
| Social Vulnerability (eFI) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 3.0% | 3.1% | 2.1% | 4.0% | 6.1% | 6.5% | 1.6% | 20.0% | 20.2% | 21.8% | 23.5% | 50.0% | **1.5%** |
| History of Smoking (Tw... | 0.0% | 0.0% | 0.0% | 0.0% | 8.7% | 9.7% | 5.9% | 4.1% | 5.2% | 6.3% | 6.3% | 20.0% | 8.2% | 10.0% | 7.8% | 0.0% | 5.1% | 5.3% | 17.6% | 50.0% | **3.5%** |
| Not Fit for Work (In Year) | 0.0% | 0.0% | 0.0% | 0.0% | 3.9% | 3.8% | 5.9% | 4.1% | 4.0% | 5.6% | 3.2% | 4.0% | 4.3% | 3.5% | 6.3% | 0.0% | 1.1% | 1.9% | 5.9% | 0.0% | **1.9%** |
| On a Waiting List | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | **0.0%** |

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

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

# Matrix Data - Practice & Deprivation

Hertfordshire and West Essex Integrated Care Board

| Practice / Deprivation | Kings Medical Centre | | | | Loughton Health Centre | | | | The River Surgery | | | | Grand Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Low Deprivation | Middle Deprivation | High Deprivation | Not known | Low Deprivation | Middle Deprivation | High Deprivation | Not known | Low Deprivation | Middle Deprivation | High Deprivation | Not known | |
| **Overall Population Measures** | | | | | | | | | | | | | |
| Population | 5,929 | 1,416 | 103 | 30 | 5,350 | 3,793 | 861 | 16 | 1,687 | 2,043 | 185 | 115 | **21,528** |
| Age | 42 | 42 | 41 | 39 | 45 | 41 | 41 | 62 | 40 | 39 | 39 | 47 | **42** |
| Male % | 49.3% | 47.8% | 52.4% | 50.0% | 49.7% | 51.2% | 55.3% | 37.5% | 48.8% | 47.9% | 52.4% | 50.4% | **49.8%** |
| IMD | 9.4 | 6.1 | 2.6 | | 8.8 | 4.8 | 2.4 | | 8.9 | 5.7 | 2.4 | | **7.5** |
| % BAME (where recorded) | 20% | 20% | 23% | 19% | 16% | 13% | 17% | 0% | 20% | 17% | 14% | 10% | **17%** |
| Multimorbidity (acute & chronic) | 1.0 | 1.1 | 1.2 | 0.4 | 0.8 | 0.9 | 0.8 | 0.7 | 1.0 | 1.0 | 0.9 | 1.0 | **0.9** |
| **Finance and Activity Measures** | | | | | | | | | | | | | |
| Spend — Total | £3.7M | £1.0M | £0.1M | £0.0M | £3.4M | £2.6M | £0.5M | £0.0M | £1.1M | £1.4M | £0.2M | £0.0M | **£14.1M** |
| Spend — PPPY - Total | £631 | £671 | £1,213 | £142 | £643 | £684 | £635 | £573 | £670 | £664 | £915 | £230 | **£654** |
| Acute Elective | £259 | £266 | £278 | £38 | £256 | £310 | £260 | £299 | £300 | £275 | £287 | £107 | **£272** |
| Acute Non-Elective | £253 | £274 | £776 | £7 | £272 | £258 | £270 | £106 | £264 | £283 | £512 | £43 | **£268** |
| GP Encounters | £119 | £132 | £159 | £97 | £114 | £116 | £105 | £169 | £106 | £106 | £116 | £80 | **£115** |
| Community | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | **£0** |
| Mental Health | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | **£0** |
| Social Care | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | £0 | **£0** |
| GP PPPY | 45 | 49 | 58 | 36 | 21 | 21 | 19 | 31 | 43 | 43 | 47 | 32 | **33** |
| Beddays PPPY - Acute EM | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 0 | **0** |
| **Physical Health** | | | | | | | | | | | | | |
| Diabetes | 8.9% | 9.6% | 15.5% | 3.3% | 5.8% | 7.1% | 5.5% | 6.3% | 7.9% | 7.6% | 8.1% | 8.7% | **7.5%** |
| COPD | 1.4% | 2.0% | 2.9% | 0.0% | 1.1% | 2.2% | 1.9% | 0.0% | 1.5% | 1.6% | 1.1% | 0.9% | **1.6%** |
| Chronic Respiratory Dis... | 2.2% | 3.0% | 2.9% | 0.0% | 1.9% | 2.8% | 2.4% | 6.3% | 2.3% | 2.2% | 1.6% | 2.6% | **2.3%** |
| Hypertension | 14.9% | 15.1% | 13.6% | 13.3% | 10.6% | 10.2% | 9.5% | 12.5% | 14.6% | 13.5% | 14.1% | 15.7% | **12.6%** |
| Obesity | 11.3% | 13.3% | 6.8% | 16.7% | 3.3% | 4.2% | 3.8% | 0.0% | 11.9% | 14.1% | 13.0% | 13.9% | **8.2%** |
| **Mental Health** | | | | | | | | | | | | | |
| Anxiety/Phobias | 11.6% | 14.9% | 12.6% | 3.3% | 9.2% | 13.0% | 13.0% | 6.3% | 8.4% | 9.2% | 8.6% | 8.7% | **11.0%** |
| Depression | 12.6% | 15.8% | 17.5% | 13.3% | 7.1% | 11.5% | 12.5% | 6.3% | 13.0% | 14.3% | 15.7% | 20.9% | **11.5%** |
| Learning Disability | 0.3% | 0.4% | 0.0% | 0.0% | 0.2% | 0.3% | 0.2% | 0.0% | 0.5% | 0.7% | 0.0% | 0.9% | **0.3%** |
| Dementia | 1.0% | 0.9% | 1.9% | 0.0% | 0.7% | 0.9% | 0.5% | 0.0% | 1.1% | 2.1% | 0.0% | 0.0% | **1.0%** |
| **Other Characteristics** | | | | | | | | | | | | | |
| Housebound (eFI) | 0.7% | 0.8% | 1.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 1.2% | 1.4% | 0.0% | 0.0% | **0.5%** |
| Social Vulnerability (eFI) | 2.1% | 2.8% | 1.9% | 0.0% | 0.3% | 0.3% | 0.1% | 0.0% | 2.9% | 3.1% | 3.2% | 3.5% | **1.5%** |
| History of Smoking (Tw... | 5.6% | 7.0% | 5.8% | 3.3% | 0.0% | 0.1% | 0.0% | 0.0% | 6.4% | 8.7% | 14.6% | 6.1% | **3.5%** |
| Not Fit for Work (In Year) | 2.8% | 3.3% | 4.9% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 4.1% | 4.8% | 10.3% | 2.6% | **1.9%** |
| On a Waiting List | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | **0.0%** |

**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.**

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

# Bubble Matrix - Conditions

x% also have

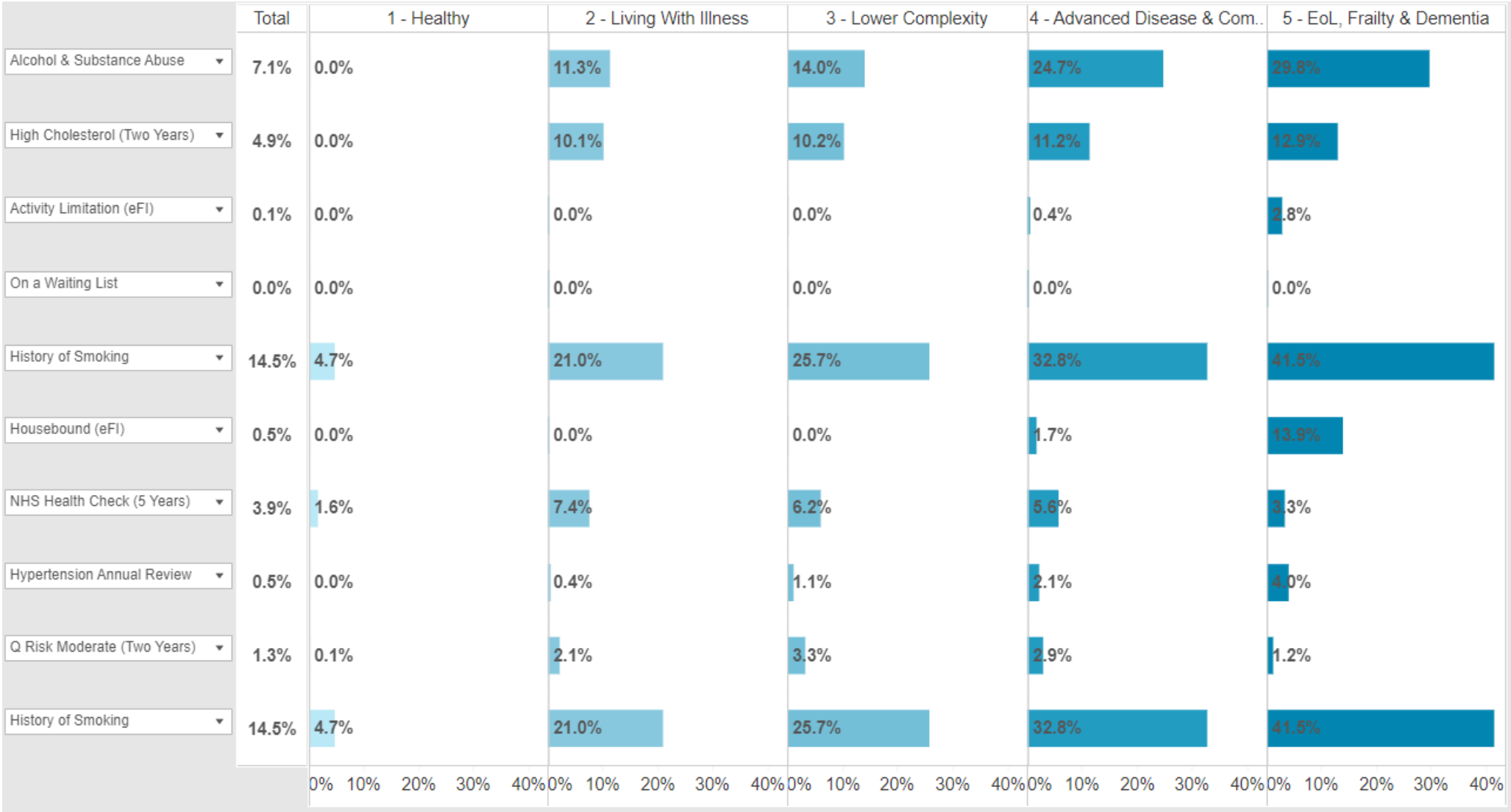
For people with this condition

| Initial Condition | Other Conditions | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Alzheimers Disease | Asthma | COPD | Heart Failure | Anxiety | Autism Spectrum Disorder | Dementia | Alcohol Abuse | ABCD Prescription | Anti-Depressive Prescription | Activity Limitation (eFI) | Housebound (eFI) | No Other Condition |
| Alzheimers Disease | | 14% | 13% | 16% | 17% | 0% | 98% | 10% | 52% | 32% | 0% | 15% | 1% |
| Asthma | 1% | | 7% | 3% | 17% | 1% | 1% | 4% | 17% | 16% | 0% | 1% | 51% |
| COPD | 4% | 48% | | 16% | 26% | 0% | 7% | 7% | 43% | 23% | 1% | 4% | 0% |
| Heart Failure | 6% | 25% | 20% | | 19% | 0% | 10% | 6% | 67% | 15% | 1% | 8% | 0% |
| Anxiety | 1% | 17% | 4% | 2% | | 1% | 2% | 5% | 15% | 37% | 0% | 1% | 19% |
| Autism Spectrum Disorder | 0% | 13% | 0% | 0% | 25% | | 1% | 3% | 8% | 24% | 0% | 1% | 36% |
| Dementia | 48% | 16% | 12% | 13% | 21% | 0% | | 10% | 50% | 36% | 0% | 15% | 7% |
| Alcohol Abuse | 2% | 18% | 5% | 3% | 25% | 1% | 4% | | 32% | 26% | 0% | 2% | 24% |
| ABCD Prescription | 2% | 17% | 6% | 8% | 16% | 0% | 5% | 7% | | 19% | 1% | 3% | 18% |
| Anti-Depressive Prescription | 2% | 19% | 4% | 2% | 46% | 1% | 4% | 7% | 22% | | 0% | 2% | 20% |
| Activity Limitation (eFI) | 0% | 19% | 24% | 14% | 29% | 0% | 0% | 5% | 71% | 43% | | 14% | 5% |
| Housebound (eFI) | 14% | 20% | 11% | 21% | 18% | 1% | 30% | 10% | 74% | 28% | 3% | | 6% |

**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.**

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

# Bio-Psycho-Social Indicators - Example



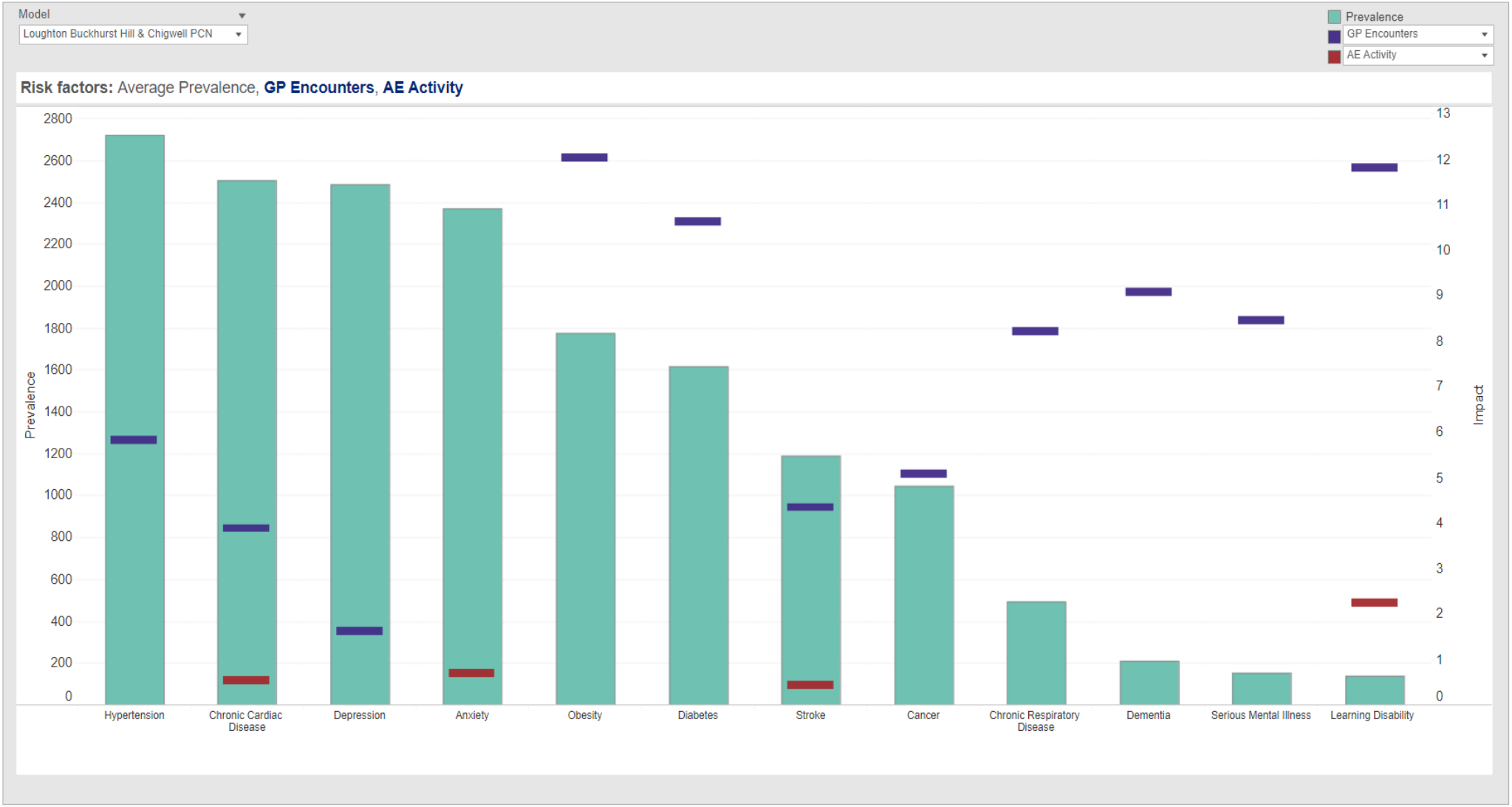

**This chart gives a comparison across various selected risk conditions or characteristics, within the health segments of the PCN's population.**

**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.**

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

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

Hertfordshire and West Essex Integrated Care Board




**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.**

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

NHS Hertfordshire and West Essex Integrated Care Board

# Cancer Screening

| | Period | HERTFORDSHIRE AND WEST ESSEX | LOUGHTON BUCKHURST HILL & CHIGWELL PCN | LOUGHTON HEALTH CENTRE | CHIGWELL MEDICAL CENTRE | THE LOUGHTON SURGERY | FOREST PRACTICE | PALMERSTON ROAD SURGERY | KINGS MEDICAL CENTRE | THE RIVER SURGERY |
|---|---|---|---|---|---|---|---|---|---|---|
| Women, aged 25-49, with a record of cervical screening in the last 3.5 yrs (denominator includes PCAs) | 2020/21 | 73.3 | 71.4 | 69.6 | 67.4 | 70.5 | 70.3 | 74.8 | 76.8 | 76.4 |
| Women, aged 50-64, with a record of cervical screening in the last 5.5 yrs (denominator includes PCAs) | 2020/21 | 78.2 | 76.7 | 76.6 | 74.6 | 74.2 | 75.9 | 81.2 | 80.7 | 76.9 |
| Persons, 25-49, attending cervical screening within target period (3.5 year coverage, %) | 2020/21 | 73 | 70.9 | 70.1 | 66.1 | 70.3 | 69.9 | 74.2 | 75.5 | 76.5 |
| Persons, 50-64, attending cervical screening within target period (5.5 year coverage, %) | 2020/21 | 77 | 75.5 | 76.2 | 72 | 73.2 | 74.2 | 78 | 80 | 77.6 |
| Persons, 50-70, screened for breast cancer in last 36 months (3 year coverage, %) | 2020/21 | 63.9 | 65.2 | 70.3 | 59.1 | 66.2 | 68.6 | 64.6 | 60.6 | 60.4 |
| Persons, 50-70, screened for breast cancer within 6 months of invitation (Uptake, %) | 2020/21 | 61.3 | 39.5 | 40 | 28.6 | 54.5 | 50 | 0 | 0 | 40 |
| Persons, 60-74, screened for bowel cancer within 6 months of invitation (Uptake, %) | 2020/21 | 72.1 | 69.7 | 69.4 | 70 | 68.1 | 65.1 | 74.1 | 73.2 | 74.2 |
| Persons, 60-74, screened for bowel cancer in last 30 months (2.5 year coverage, %) | 2020/21 | 68.8 | 65 | 66 | 65.8 | 61.5 | 63.7 | 68.2 | 65.7 | 67 |

Similar | Significantly Worse | Significantly Better

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Hertfordshire Public Health Evidence & Intelligence Epidemiology

Hertfordshire

Source: Public Health Team

Hertfordshire and West Essex Integrated Care Board

# Mortality

| | Period | WEST ESSEX CCG | LOUGHTON BUCKHURST HILL & CHIGWELL PCN |
|---|---|---|---|
| Percentage of deaths that occur at home (All age) | 2021 | 26.4 | |
| PYLL - Neoplasms | 2021 | 471.2 | 387 |
| PYLL - Diseases of the circulatory system | 2021 | 802.8 | 706.5 |
| PYLL - All Cause | 2021 | 1447.9 | 1274.7 |
| Premature Mortality - Respiratory Disease | 2021 | 10 | |
| Premature Mortality - Liver Disease | 2021 | 12 | |
| Premature Mortality - Cardiovasular Disease | 2021 | 57.2 | 52.2 |
| Premature Mortality - Cancer | 2021 | 93.5 | 85.9 |
| Premature Mortality - All Cause | 2021 | 270.1 | 273.1 |

Similar | Significantly Worse | Significantly Better

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Hertfordshire Public Health Evidence & Intelligence Epidemiology

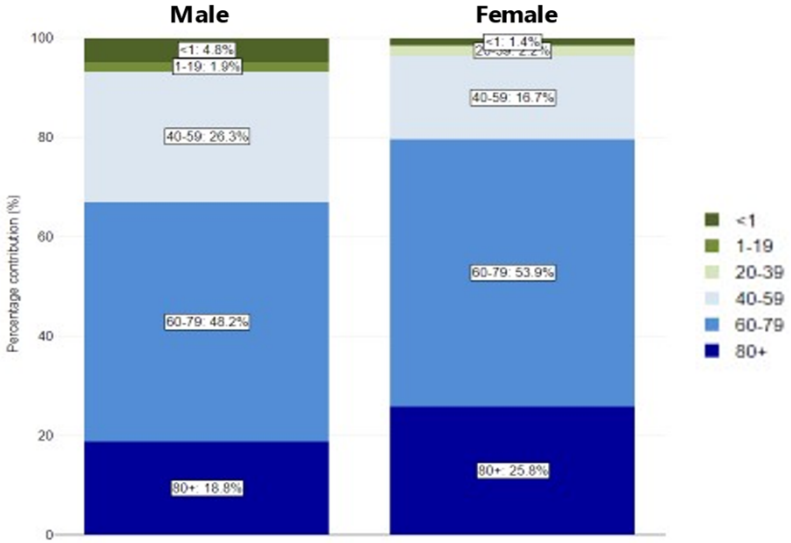
Hertfordshire

Source: Public Health Team

Hertfordshire and West Essex Integrated Care Board

# Life Expectancy


Contribution of different age bands between the most and least deprived areas within Epping Forest




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 the life expectancy at birth for females is 4.4 years and for 5.2 males is years.

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Hertfordshire Public Health Evidence & Intelligence Epidemiology

Hertfordshire

Source: Public Health Team

Hertfordshire and
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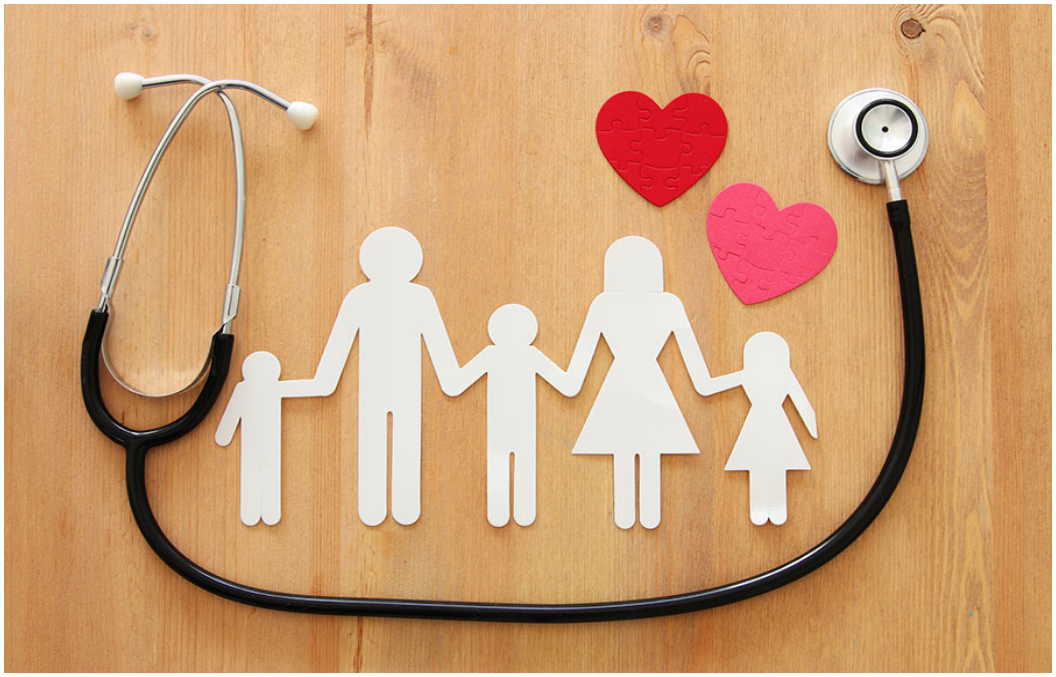

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for a healthier future