





The

Unit.

Strategy



Community and Mental Health Services







A preventative, predictive, precise approach to population, patient and person in a joined-up intelligence led system

Enabling us to programme equity, rather than tackle inequality

System P

Welcome to System P

System P is the whole system approach to addressing multiagency, multisector challenges that negatively impact population health and will deliver transformational change in service provision through collaborative working.

System P is a Cheshire & Merseyside ICS funded programme, which commenced in September 2021. This initial phase will run through to the end of March 2023.

We have the opportunity to form virtual networks based on a common purpose rather than an oppositional view. In doing this we can change outcomes for individuals and communities.

System P uses the Bridges to Health segmentation methodology, which has been endorsed by NHS England. Segmentation aims to categorise the population according to health status, health care needs and priorities. This methodology identifies groups of people who share characteristics that influence the way they interact with health and care services.

Our initial focus in this first phase of System P, is around the Complex Lives and Frailty & Dementia segments. Insight packs will be available for all 9 Places across Cheshire & Merseyside for both segment areas.

Please do not hesitate to contact the Programme Director, Andrea Astbury or Project Support Officer, Shahina Rashid on the below email addresses, for further help and support: <u>Andrea.Astbury@liverpoolccg.nhs.uk</u> <u>Shahina.Rashid@nhs.net</u>



Data Sharing Agreements

Population Health Data Sharing Agreements (DSAs) need to be signed by each GP practice to allow System P to access data for that practice area.

Those CCG areas which have a high percentage return of DSAs will produce reliable Insight Packs for the area. Conversely, those areas which have a low sign-up need to be interpreted with greater consideration and some caution.

The total return rate of signed DSAs as of 8 April 2022 for NHS Warrington CCG is 96%.



Practice Sign Up

Practices with a signed Data Sharing Agreement					
N81007	HOLES LANE MEDICAL CENTRE				
N81012	GUARDIAN STREET MED/CTR				
N81014	BROOKFIELD SURGERY				
N81020	PENKETH HEALTH CENTRE				
N81028	CAUSEWAY MEDICAL CENTRE				
N81036	SPRINGFIELDS MEDICAL CENTRE				
N81041	HELSBY STREET MED/CTR				
N81048	FEARNHEAD CROSS MED.CTR.				
N81056	FOLLY LANE MEDICAL CENTRE				
N81059	CULCHETH MEDICAL CENTRE				
N81065	LATCHFORD MEDICAL CENTRE				
N81075	STOCKTON HEATH MED.CENTRE				
N81083	PARKVIEW MEDICAL CENTRE				
N81089	GREENBANK SURGERY				
N81097	DALLAM LANE MEDICAL CENTRE				
N81107	MANCHESTER ROAD SURGERY				
N81108	THE LAKESIDE SURGERY				
N81109	PADGATE MEDICAL CENTRE				
N81114	BIRCHWOOD MEDICAL CENTRE				
N81122	WESTBROOK MEDICAL CENTRE				
N81623	STRETTON MEDICAL CENTRE				
N81628	THE ERIC MOORE PARTNERSHIP				
N81637	COCKHEDGE MEDICAL CENTRE				
N81645	4 SEASONS MEDICAL CENTRE				

Practices without a signed Data Sharing Agreement

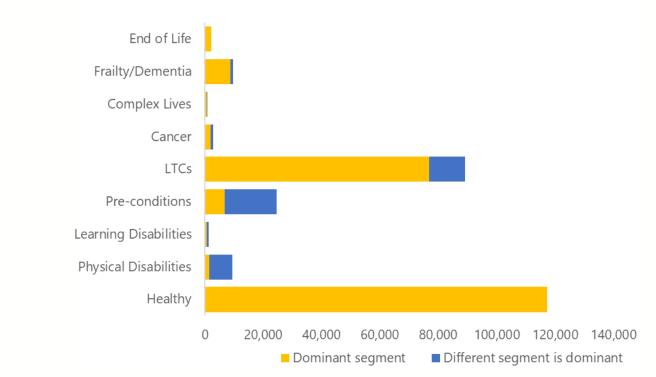
Y04925 CHAPELFORD PRIMARY CARE CENTRE



All Segments

Segmentation methodology comprises nine different segments. Individuals may belong to one segment or more, excepting the healthy group who by definition belong to that group alone. Where individuals belong to more than one segment it is possible to assign a dominant segment but in this analysis all people in Frailty and Dementia are included, whether this is their dominant segment or not.

For the population (based on signed DSAs) the number of people in each segment is shown and is split by whether this is the dominant segment or not.





People are defined as belonging to the Frailty and Dementia if they have:



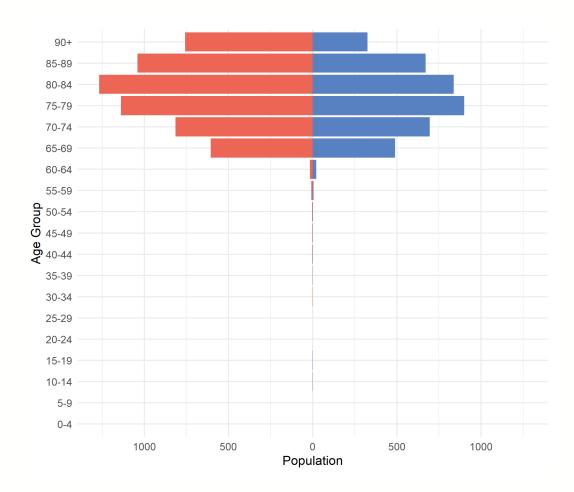
In NHS Warrington CCG 9,611 individuals (4.5% of the population) were identified as belonging to the Frailty and Dementia segment. In this pack we describe the characteristics of people in this segment, before moving on to describe their other healthcare issues and how they use services.



Patient Characteristics – Age and Gender

For the Frailty and Dementia segment, the mean average age of these individuals is 80 (interquartile range from 74 to 85).

Gender splits within the segment are 41% male and 59% female.



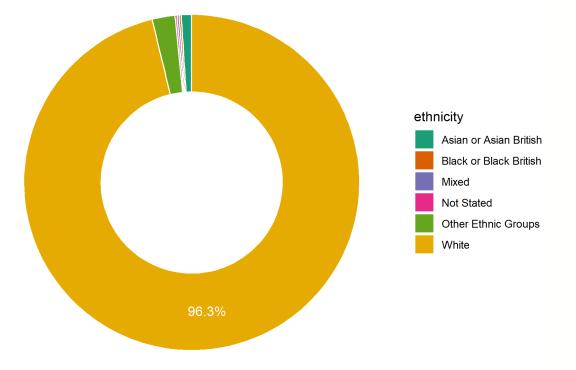


Patient Characteristics - Ethnicity

96% of people in the Frailty and Dementia segment class their ethnicity as White.

The remaining 4% class themselves as one of the ethnic minority groups.

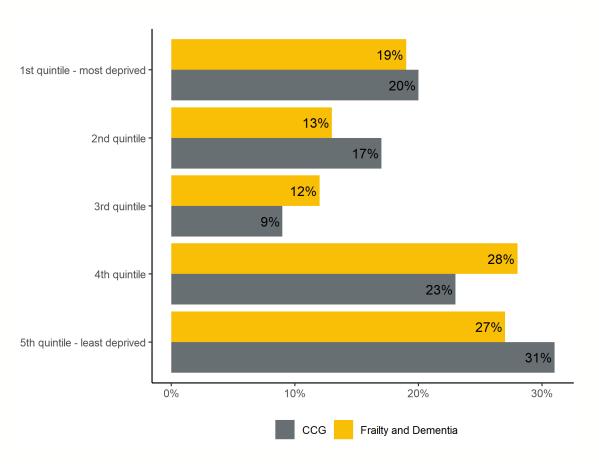
A small number did not state their ethnicity.





Patient Characteristics - Deprivation

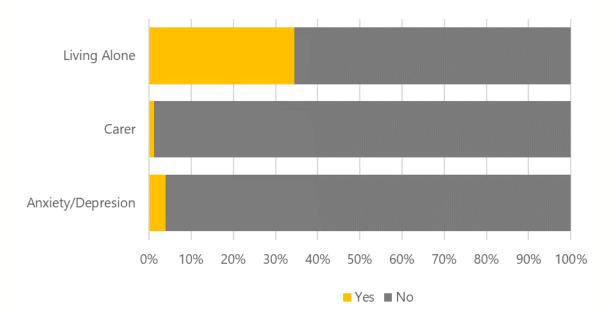
Those with Frailty and Dementia are less likely to reside in areas of higher deprivation. 19% of the segment live in the most deprived quintile.





Patient Characteristics - Living Arrangements

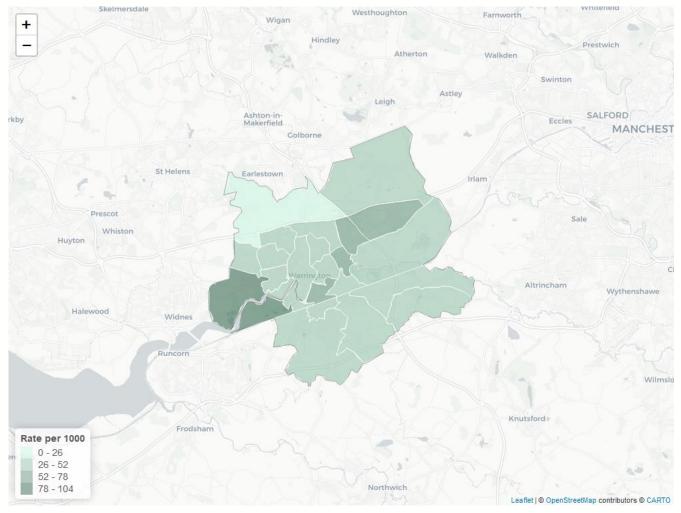
A third of individuals in the Frailty and Dementia segment are living alone. A small number were found to have caring responsibilities and 4% were found to be suffering from Anxiety or Depression in the last two years.





Patient Characteristics - Geography

The map shows, for wards within the CCG, the rate of Frailty and Dementia individuals per 1,000 population.



Areas with some of the highest density for Frailty and Dementia are:

- Penketh and Cuerdley
- Latchford West
- Birchwood

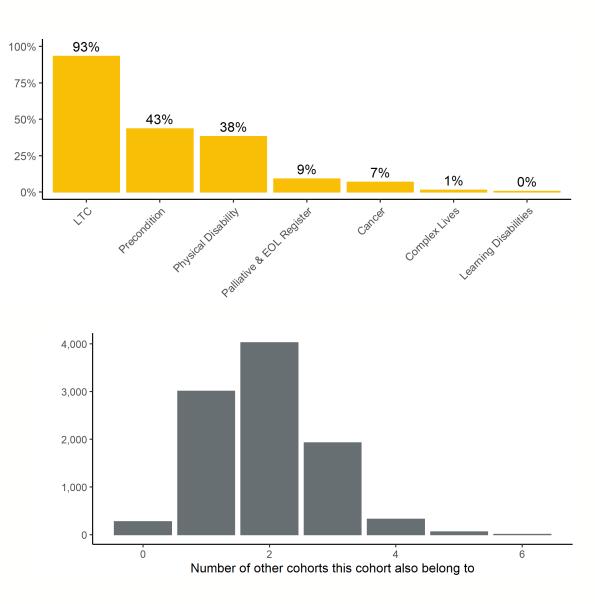


Health Care Conditions - Other Segments

Those in the Frailty and Dementia segment also fall into other, sometimes multiple other, segments.

By considering individual segments it can be seen that a significant number in Frailty and Dementia are also living a Long term condition.

On average, those in the segment fall into an additional 1.9 segments.

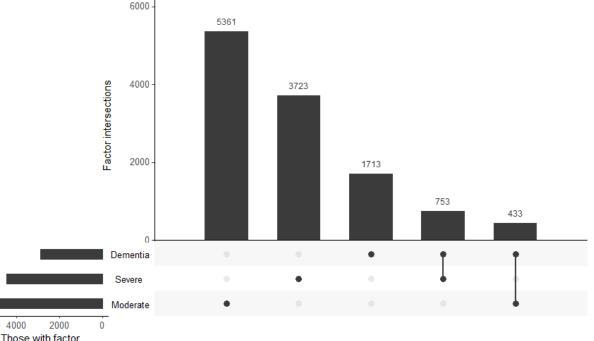




Patient Characteristics - Factors

For an individual to be assigned to the Frailty and Dementia segment depends on factors for the level of frailty (moderate or severe) or a clinical code for dementia. Numbers are larger frailty alone but some individuals do have both frailty and dementia.

The 'Those with factor' bars represent all those in the segment with those factors. The 'Factor intersection' represents the combination of factors and the number of individuals with those combinations.



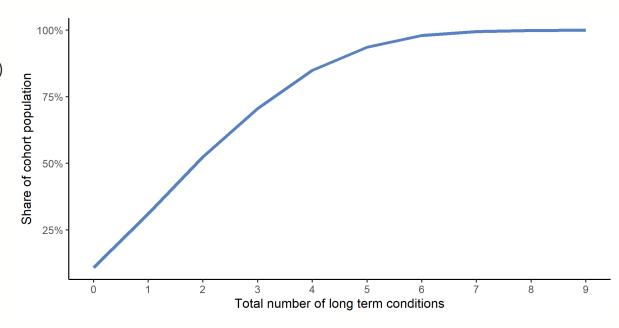
Although not a factor, there was interest in identifying those prescribed an anticholinergic. In the last year 82% of those in the segment were prescribed these at least once, and where prescribed there were on average 2.5 different types.



Health Care Conditions of Interest

Frailty and Dementia individuals will have a range of long term health issues. Specific long term conditions investigated here are:

- Asthma
- Chronic liver disease (CLD)
- Hypertension
- Chronic Obstructive Pulmonary Disease (COPD)
- Diabetes
- Epilepsy
- Coronary Vascular Disease (CVD)
- Chronic kidney disease (CKD)
- Stroke or Transient ischaemic attack (TIA)
- Gastroenterology conditions
- Atrial Fibrillation
- Heart Failure



On average, each individual in this segment has 2.6 of the specified long term health conditions. Only 7% do not have any of the LTCs at all.

The Long Term Condition segment is defined with more extensive list of conditions.

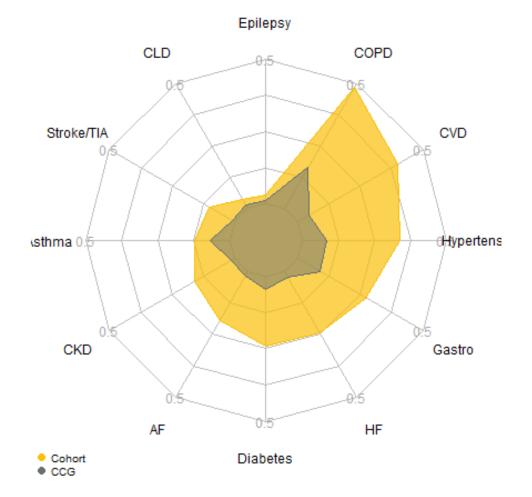


Health Care Conditions - LTCs in the Population

For the specified long term conditions a comparison of prevalence rates is made between those in the Frailty and Dementia segment and the total population (aged 15+). This indicates the scale of the difference in these disease areas between the segment and the total population.

The scale shows the rate per person so 0.5 represents prevalence of 50% of people.

Proportion of LTC prevalence in cohort compared to overall CCG population





Health and Care Use – A&E Services

Those in the Frailty and Dementia segment attend A&E services on average **0.9** times per person, per year. This is much higher than the total population who attend A&E services **0.3** times per person, per year. Emergency Departments are the most used A&E service and also the service where there is the greatest disparity in use between segment and total population. In a year **45%** of people in the Frailty and Dementia segment attend an A&E service. For the total population the same figure is **21%**.

When attending A&E services the average cost per attendance is **£197** for those in the Frailty and Dementia segment. This is **29%** higher than the average cost per attendance for the total population.

Where a clinical reason for attending A&E has been recorded this identifies that for the Frailty and Dementia segment common reasons for attending A&E relate to *Trauma / musculoskeletal* or *Neurological* problems.

Cost information is derived from 21/22 national prices. Activity without a national price is excluded when calculating average costs. There is no national price for Walk in centre attendances.



Health and Care Use – Emergency Admissions

On average those in the Frailty and Dementia segment have **0.5** emergency admissions per person, per year. This is again much higher than the total population who have on average **0.1** emergency admissions per year.

29% of people in Frailty and Dementia segment have an emergency admission in a year. For the total population the same figure is lower at **5%**.

The average emergency admission cost is **£4,141** for Frailty and Dementia compared to **£2,779** for the total population. Higher costs for emergency admissions for those with frailty or dementia will most likely be partly associated with longer lengths of stay for these patients.

When those in the Frailty and Dementia segment are admitted as an emergency common reasons for admission relate to *Cardiac Disorders* and *Respiratory System Procedures and Disorders*.



Health and Care Use – Planned Care

Those in the Frailty and Dementia segment use more planned admissions, both as electives and as daycases, on average per person, per year. They also use more outpatient attendances.

In a year **26%** of people in Frailty and Dementia segment have a planned admission. For the total population the same figure is **7%**. For outpatient attendances **77%** of those in the Frailty and Dementia segment attended at least one outpatient appointment in a year compared to **33%** for the total population.

For elective planned care the Frailty and Dementia segment are often admitted with a reason of *Orthopaedic Non-Trauma Procedures*. In daycase admissions their main reason for admission is related to *Eyes and Periorbita Procedures and Disorders*. For outpatients their most common clinical specialty is *Cardiology* (first attendances) and *Anticoagulant* (follow-up attendances).

Planned admissions are elective admissions with an overnight stay. Daycase admissions are planned admissions with admission and discharge on the same day. Regular Attenders are excluded from this analysis due to inconsistent coding. Cost information is derived from 21/22 national prices. Activity without a national price is excluded when calculating average costs.



Health and Care Use – Mental Health

On average those in the Frailty and Dementia segment have **1.9** mental health contacts per person, per year. This is much higher than the total population who on average have **0.4** contacts with mental health services per year.

18% of people in the Frailty and Dementia segment have an contact with mental health services in a year. For the total population the same figure is only **4%**.

When those in the Frailty and Dementia segment are in contact with mental health this most commonly involves contacts with *Memory Services/Clinic/Drop in* or *Crisis Resolution Team/Home Treatment Service* services.



Health and Care Use – Community Services

On average those in the Frailty and Dementia segment have **27.2** contacts with community services per person, per year. This is higher than the total population who, on the same basis, have **4.3**.

77% of people in the Frailty and Dementia segment are in contact with community services in a year. For the total population the figure is **41%**.

The most used community service for the Frailty and Dementia segment is *District Nursing Service*.

Community contacts are usually counted where the attended flag indicates a patient attended/was seen. However, for Bridgewater Community Healthcare Trust the attendance flag is not available. Therefore, for this Trust all appointments are counted as contacts. This may artificially inflate community contacts for CCGs with patients at this Trust. No cost information is available for community services data.



Health and Care Use – Social Care

From available data there were on average **0.007** of the Frailty and Dementia segment known to social services in the last year. More than the total population where the same figure is **0.001**. However, social services data should be viewed as indicative and treated with caution. A recent review of the data indicated concerns with the data and further work is already underway to improve the consistency and quality of social care data.

Social services data includes information collected by councils and does not include services purchased directly by patients or provided by the voluntary sector.



Health and Care Use – Summary Tables

	Average activity per person, per year		Ratio between average activity for cohort compared to the whole population	Average activity cost		Difference in average cost for cohort compared to the total population	% of people accessing service	
A&E Attendance	Segment	Total Population		Segment	Total Population		Segment	Total Population
Emergency Department	0.8	0.3	3.0	£208	£171	22%	43%	18%
MIU/Other	0.1	0.1	1.1	£79	£79	0%	5%	5%
Walk In Centre	0.0086	0.0079	1.1	-	-	-	0.7%	0.7%
Total: A&E Attendance	0.9	0.3	2.6	£197	£153	29%	45%	21%
Emergency Admission	0.5	0.1	6.5	£4,141	£2,779	49%	29%	5%
Planned Inpatient Care			I					
Daycase	0.4	0.1	4.1	£776	£817	-5%	23%	6%
Elective	0.1	0.0	3.8	£5,550	£4,641	20%	5%	1%
Total: Planned Inpatient Admission	0.4	0.1	4.0	£1,454	£1,394	4%	26%	7%
Outpatient Attendances								
First	1.0	0.3	3.0	£180	£183	-1%	50%	21%
Follow-up	4.8	1.3	3.7	£107	£109	-2%	71%	27%
Total: Outpatient Attendances	5.7	1.6	3.5	£124	£130	-5%	77%	33%
Mental Health Contact	1.9	0.4	5.0	-	-	-	18%	4%
Community Contact	27.2	4.3	6.3	-	-	-	77%	41%
Social Services (known to)	0.0	0.0	6.1	-	-	-	1%	0%

System P

Primary Care Prescribing

From the prescribing data available for primary care the top 10 drugs types prescribed to those in the Frailty and Dementia segment are:

- 1 Proton pump inhibitors
- 2 Lipid-Regulating Drugs
- 3 Beta-Adrenoceptor Blocking Drugs
- 4 Angiotensin-Converting Enzyme Inhibitors
- 5 Calcium-channel blockers
- 6 Diuretics with potassium
- 7 Non-opioid analgesics and compound prepa
- 8 Vitamin D
- 9 Oral anticoagulants
- 10 Drugs used in megaloblastic anaemias



Technical note

Alongside the excluded practices (see appendix 1) patients who opted out of their data being available for analysis purposes are also excluded. So are any patients whose NHS Number is blank. Also excluded are a small number of patients marked as deceased.

An exact date of birth is not accessible, only year and month of birth is available. When calculating the age of patient all dates of birth are therefore estimated as the 15th day of a calendar month.

Primary care data is used as the main basis for identifying patients and their segments. Primary care from April 2014 to date was the underlying source of this analysis.



meet the System P Team ///////

Individual	System P role	Role outside of the programme
Professor Joe Rafferty CBE	Executive Sponsor	Chief Executive Mersey Care NHS Foundation Trust
Dr Louise Edwards	Senior Responsible Officer	Executive Director of Strategy, Mersey Care
Andrea Astbury	Programme Director	Deputy Director of Strategy, NHS Liverpool CCG
Wes Baker	Strategic Analytics	Director of Strategic Analytics, Economics and Population Health Management, Mersey Care
Shahina Rashid	Project Support	Project Support, Midlands & Lancashire Commissioning Support Unit
Helen Bennett	Senior Advisor	Deputy Director of Strategic Planning & Intelligence, Mersey Care
Helen Duckworth	Intelligence Infrastructure Associate Director of Business Intelligence C&M, Programme Director for CIPHA	
Professor Ben Barr	Data Science & Analytics	Professor in Applied Public Health Research, Institute of Population Health, University of Liverpool