

# Locality Profile

Northern Locality

April 2024

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## Summary Table (1)

Indicators	Data Type	Time Period	Northern Locality	Kilmarnock Locality	Southern Locality	East Ayrshire HSCP	Scotland
<b>Demographics</b>							
Total population	count	2021	28,993	54,235	38,792	122,020	5,479,900
Gender ratio male to female	ratio	2021	1:1.07	1:1.07	1:1.04	1:1.06	1:1.05
Population over 65	%	2021	21.9	19.4	22.4	21	19.6
Population in least deprived SIMD quintile	%	2020	8.2	16.8	4.6	10.9	20
Population in most deprived SIMD quintile	%	2020	9.1	33.8	42.1	30.6	20
<b>Housing</b>							
Total number of households	count	2022	14,024	26,303	18,973	59,300	2,699,102
Households with single occupant tax discount	%	2022	36	42.4	39.9	40.1	38.5
Households in Council Tax Band A-C	%	2022	56.4	68.9	76.8	68.5	58.9
Households in Council Tax Band F-H	%	2022	15.4	7.8	3.4	8.2	13.7
<b>General Health</b>							
Male average life expectancy in years	mean	2017 - 2021*	77.4	74.6	75.1	74.8	76.5
Female average life expectancy in years	mean	2017 - 2021*	82.3	79.1	78.7	79.1	80.7
Deaths aged 15-44 per 100,000	rate	2019 - 2021	117.6	186.6	191	171.5	117.1
Population with long-term condition	%	2022/23	25.4	26.3	28.9	26.9	21.7
Cancer registrations per 100,000	rate	2019 - 2021	597.1	616.8	566.6	594.7	630.3
Anxiety, depression & psychosis prescriptions	%	2021/22	18.9	21.6	24.3	21.8	20.1

\*At HSCP and Scotland level, the time period is a 3-year aggregate (2020 - 2022)

## Summary Table (2)

Indicators	Data Type	Time Period	Northern Locality	Kilmarnock Locality	Southern Locality	East Ayrshire HSCP	Scotland
<b>Lifestyle &amp; Risk Factors</b>							
Alcohol-related hospital admissions per 100,000	rate	2021/22	371.3	538.5	681.5	540.6	611.1
Alcohol-specific mortality per 100,000	rate	2017 - 2021	18.1	19.4	21.1	19.6	21.1
Drug-related hospital admissions per 100,000	rate	2019/20 - 2021/22	179.1	364.2	393.5	331.4	228.4
Bowel screening uptake	%	2019 - 2021	65.7	63.9	63	64	65.6
<b>Hospital &amp; Community Care</b>							
Emergency admissions per 100,000	rate	2022/23	11,920	12,571	13,846	12,822	10,367
Unscheduled bed days per 100,000	rate	2022/23	86,721	87,980	96,468	90,379	77,178
A&E attendances per 100,000	rate	2022/23	23,323	28,006	27,467	26,722	26,382
Delayed discharges (65+) per 100,000	rate	2022/23	34,159	32,793	30,998	31,790	50,362
Potentially Preventable Admissions per 100,000	rate	2022/23	2,107	2,515	2,555	2,431	1,638
<b>Hospital Care (Mental Health)</b>							
Psychiatric patient hospitalisations per 100,000	rate	2019/20 - 2021/22	158.4	181.5	177.5	174.8	230.7
Unscheduled bed days per 100,000	rate	2022/23	17,321	15,567	17,816	16,699	18,735

## Notes for this profile

- All years shown are calendar years unless otherwise specified.
- Upper and lower 95% confidence intervals are shown throughout this document where available. In charts, these are displayed as shaded areas either side of trend lines, or as black error bars in bar charts. Confidence intervals show the range of possible values and a certainty that the true value falls within them.
- Definitions for the indicators shown are available in Appendix 1.
- Any zero figures for some indicators will indicate either suppression of small data or a complete lack of data available for this locality

## Demographics

### Summary

For the most recent time period available, Northern Locality had:

- A total population of **28,993** people, where **48.2%** were male, and **21.9%** were aged over 65.
- **8.2%** of people lived in the least deprived SIMD quintile, and **9.1%** lived in the most deprived quintile.

### Population

In 2021, the total population of Northern locality was 28,993. The graph below shows the population distribution of the locality. Overall, **48.2%** of the population are male, and **51.8%** are female.

**Figure 1: Population by age and sex.**

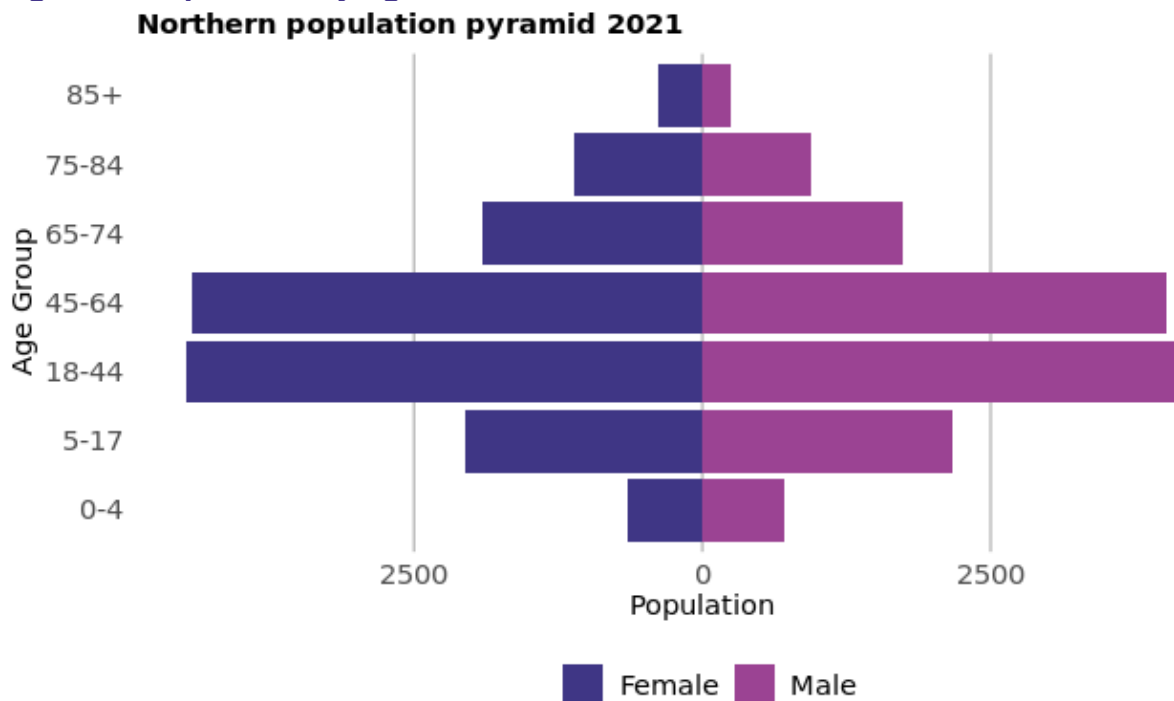
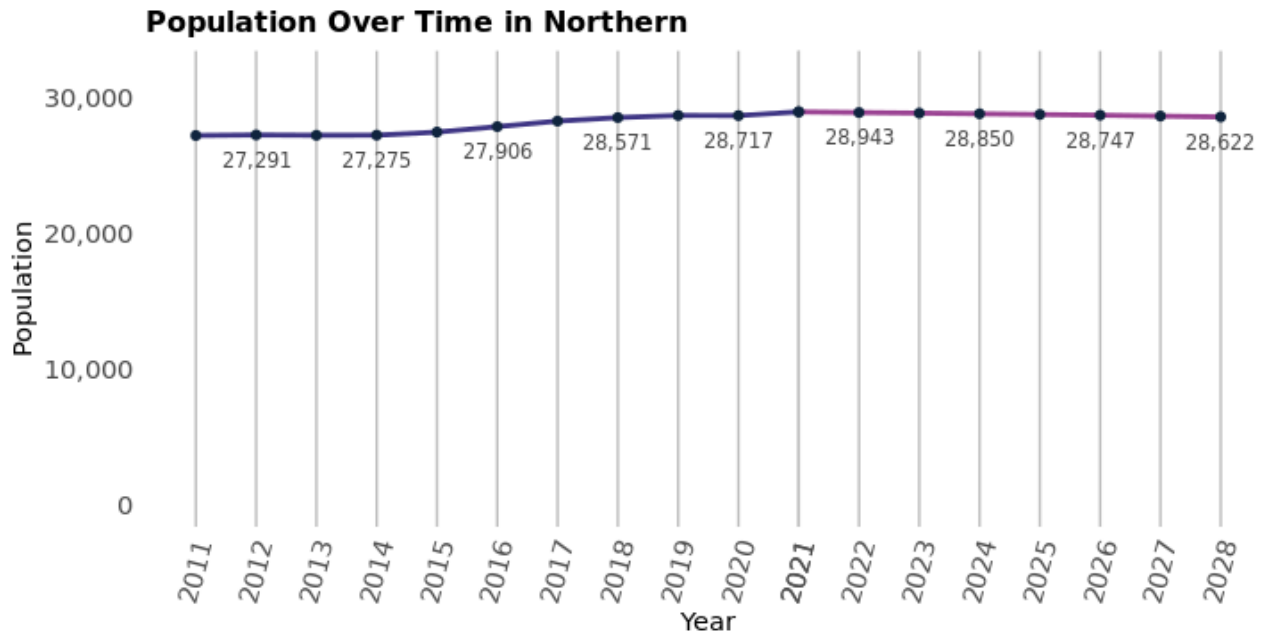
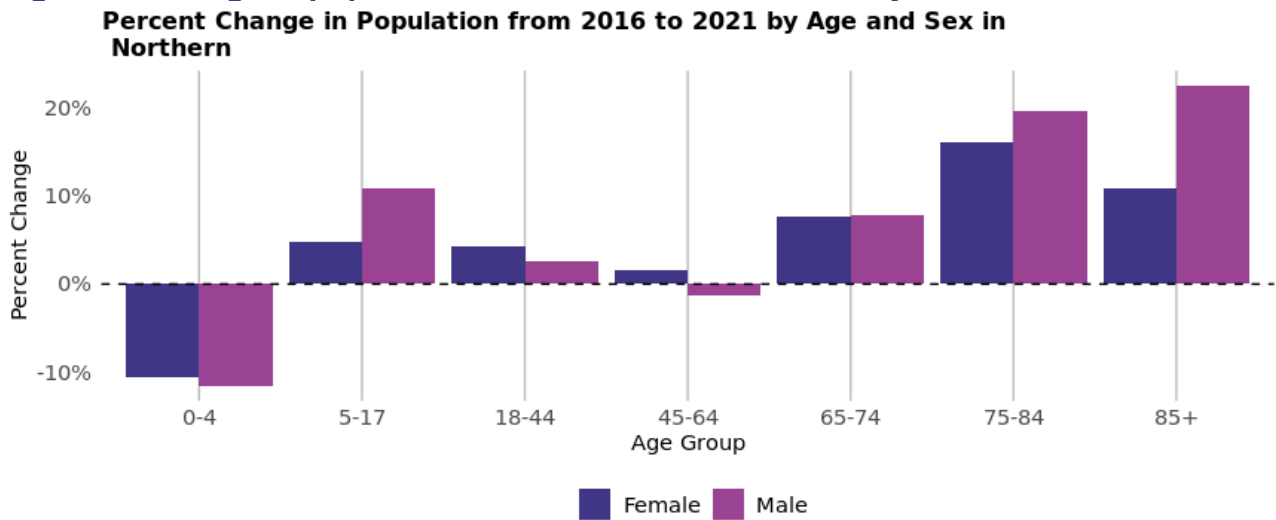


Figure 2 shows the historical population of Northern, along with the NRS population projections. The population has been rising. The population in Northern is estimated to decrease by 0.8% from 2021 to 2026. *Please see the footnotes for more information on how the population projections were calculated<sup>1</sup>.*

**Figure 2: Population time trend and projection.**

Source: National Records Scotland

Figure 3 shows how the population structure has changed between 2016 and 2021.

**Figure 3: Change in population structure over the last five years.**

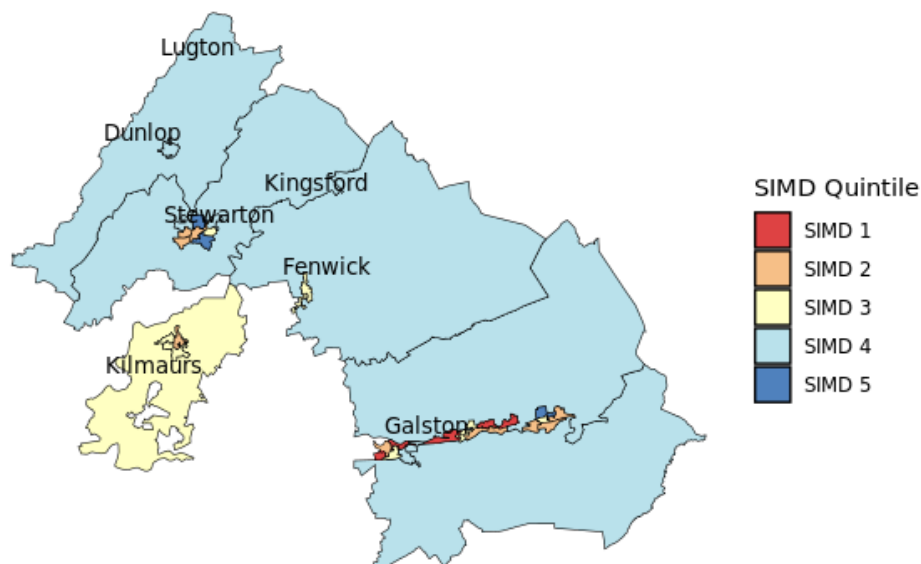
Source: National Records Scotland

## Deprivation

The following section explores the deprivation structure of Northern through the Scottish Index of Multiple Deprivation (SIMD). The SIMD ranks all datazones in Scotland by a number of factors; Access, Crime, Education, Employment, Health, Housing and Income. Based on these ranks, each datazone is then given an overall deprivation rank, which is used to split datazones into Deprivation Quintiles (Quintile 1 being the most deprived, and Quintile 5 the least). The most recent SIMD ranking was carried out in 2020. This section mainly focuses on the SIMD 2020 classifications, however the 2016 classifications are used to assess how deprivation has changed in Northern when compared to the rest of Scotland.

Of the 2021 population in Northern, **9.1%** live in the most deprived Quintile (SIMD 1), and **8.2%** live in the least deprived Quintile (SIMD 5).

**Figure 4: Map of Data Zones within Northern coloured by SIMD quintiles.**



Source: Scottish Government, Public Health Scotland



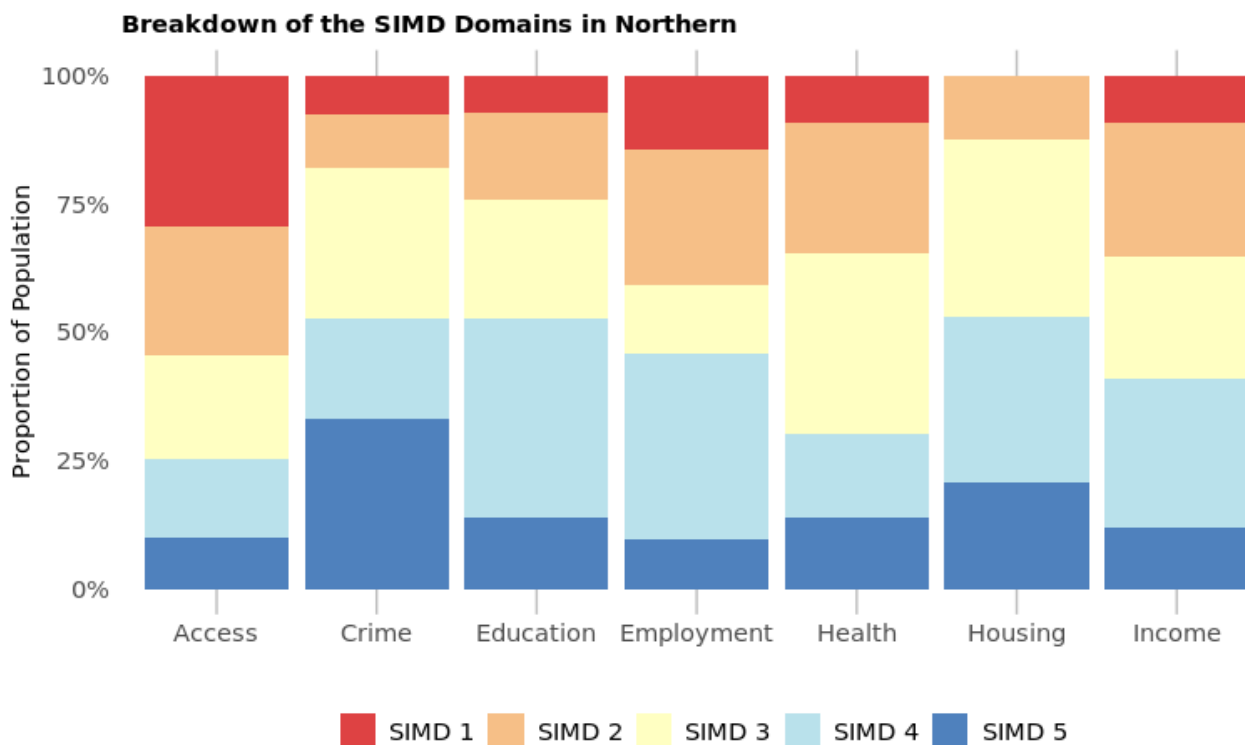
Table 1 details the percentage of the locality's 2016 population living in the 2016 SIMD Quintiles, the percentage of the 2021 population living in the 2020 SIMD Quintiles, and their difference for comparison. Figure 5 then breaks down SIMD by domain in Northern.

**Table 1: Percentage of the Northern population living in the 2016 and 2020 SIMD Datazone Quintiles in 2016 and 2021 respectively.**

Quintile	Percent of 2016 Population (SIMD 2016 Ranking)	Percent of 2021 Population (SIMD 2020 Ranking)	Difference
SIMD 1	12.7%	9.1%	-3.6%
SIMD 2	27.1%	24.9%	-2.2%
SIMD 3	24.0%	27.1%	3.1%
SIMD 4	24.2%	30.7%	6.6%
SIMD 5	12.1%	8.2%	-3.9%

Source: Scottish Government, Public Health Scotland, National Records Scotland.

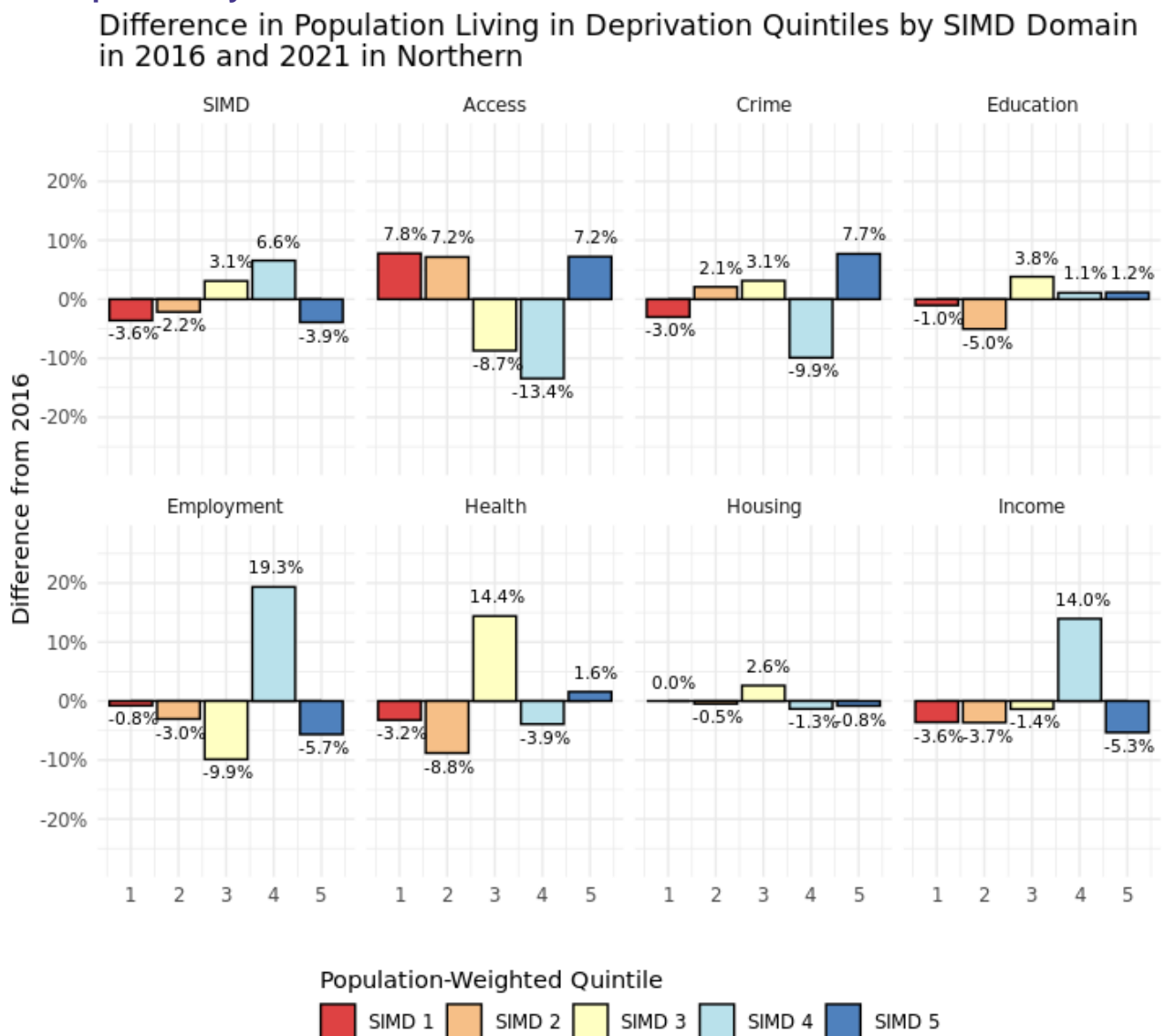
**Figure 5: Proportion of the population that reside in each 2020 SIMD quintile by domain in 2021.**



Source: Scottish Government, Public Health Scotland, National Records Scotland

Figure 6 presents a comparison between the 2016 SIMD ranking applied to 2016 population estimates, and the more recent 2020 SIMD ranking applied to 2021 population estimates. The percentages of the population living within each SIMD quintile by domain were calculated using the 2016 and 2020 SIMD datazone classifications respectively. The differences in these percentages are plotted in Figure 6. Negative values on the y-axis indicate a decrease in percent of the population living within a quintile, while positive values indicate an increase in percent of the population living within a quintile. **Please note that quintiles have been weighted by the Scottish population so, any local changes in SIMD quintile do not necessarily indicate a difference in deprivation, but rather a difference in deprivation in comparison to the rest of Scotland.**

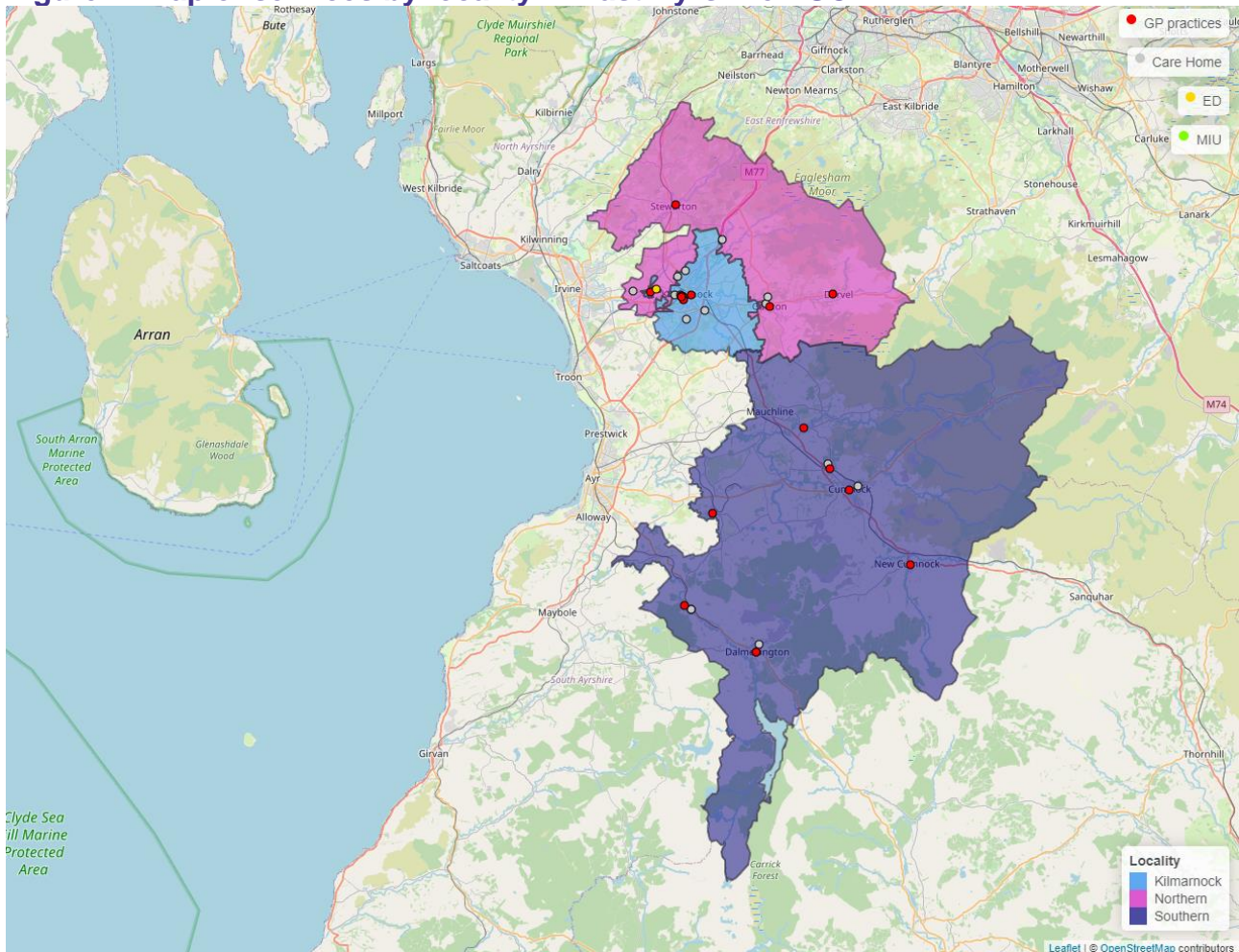
**Figure 6: Percentage population in 2016 and 2021 living in the 2016 and the 2020 SIMD quintiles by domain.**



Source: Scottish Government, National Records Scotland

## Services

Figure 7: Map of services by locality in East Ayrshire HSCP<sup>2</sup>.



ED = Emergency Department, MIU = Minor Injuries Unit (or other)

Table 2: Number of each type of service in Northern Locality<sup>2</sup>.

Service Type	Service	Number
Primary Care	GP Practice	3
A&E	Emergency Department	0
	Minor Injuries Unit	0
Care Home	Elderly Care	4
	Other	5

In 2017, 22.7% of the population of Northern lived in the 15% most 'access deprived' areas<sup>3</sup>.

## Housing

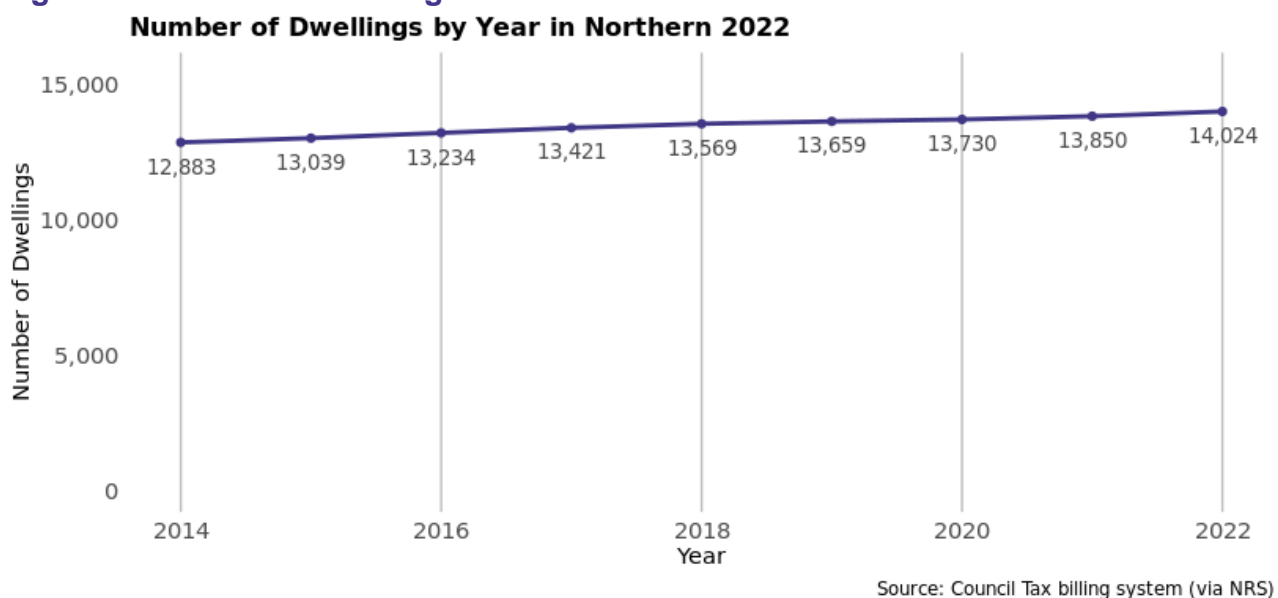
### Summary

For the most recent time period available, Northern Locality had:

- **14,024** dwellings, of which: **97.1%** were occupied and **0.25%** were second homes.
- **36%** of dwellers received a single occupant council tax discount, and **0.88%** were exempt from council tax entirely.
- **56.4%** of houses were within council tax bands A to C, and **15.4%** were in bands F to H.

The graph below shows the number of dwellings in Northern from 2014 to 2022.

**Figure 8: Number of dwellings time trend.**



Of the total number of dwellings in 2022, 36% (5,048 households) were occupied by an individual receiving a single occupant council tax discount. Furthermore, 0.88% (123 households) were occupied and exempt from council tax.

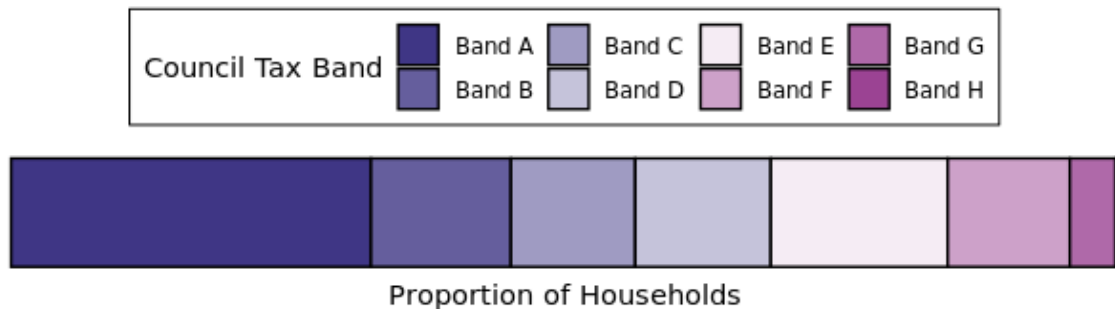
There were 35 dwellings classed as a second home in 2022, these dwellings made up 0.25% of the households in Northern.

**Table 3: Breakdown of dwelling types by year for Northern locality.**

Year	Total Dwellings	Occupied Dwellings	Vacant Dwellings	Single Occupant Tax Discount	Council Tax Exempt Dwellings	Second Homes
2014	12,883	12,371	475	4,562	89	36
2015	13,039	12,527	478	4,612	95	33
2016	13,234	12,691	508	4,604	109	35
2017	13,421	12,832	550	4,665	101	38
2018	13,569	13,037	495	4,696	113	33
2019	13,659	13,158	467	4,714	122	34
2020	13,730	13,208	484	4,813	123	38
2021	13,850	13,406	411	4,886	110	33
2022	14,024	13,617	372	5,048	123	35

Source: Scottish Assessors' Association (via NRS)

The proportion of households within each council tax band are displayed in the chart below, figures are shown in Table 4.

**Figure 9: Breakdown of households by council tax band for Northern in 2022.**

Source: Scottish Assessors' Association (via NRS)

**Table 4: Percentage of households by council tax band for Northern in 2022.**

Tax Band	A	B	C	D	E	F	G	H
Percent of households	32.5%	12.7%	11.2%	12.2%	16.0%	11.0%	4.1%	0.2%

Source: Scottish Assessors' Association (via NRS)

## General Health

### Summary

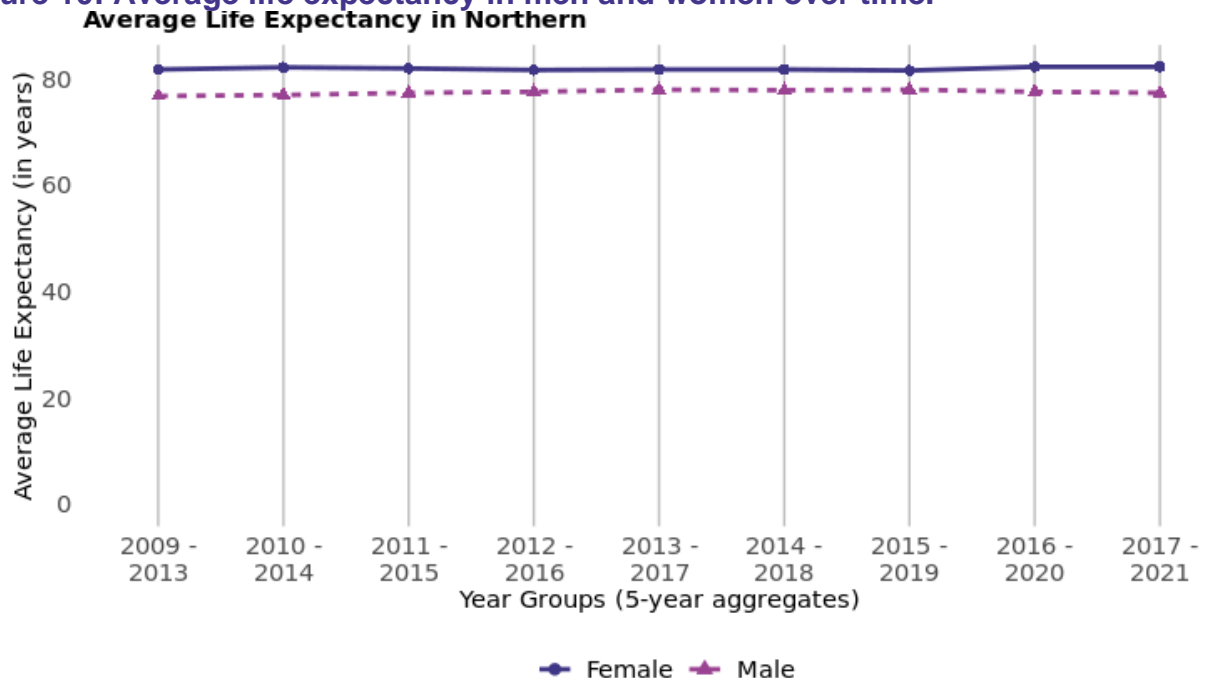
For the most recent time period available<sup>3</sup>, Northern Locality had:

- An average life expectancy of **77.4** years for males and **82.3** years for females, compared to the national average of 76.5 and 80.7 years of age respectively.
- A death rate for ages 15 to 44 of **118** deaths per 100,000 age-sex standardised population. This is higher than Scotland (117 deaths per 100,000)<sup>4</sup>.
- **25.4%** of the locality's population with at least one long-term physical health condition. This is higher than Scotland (21.7%).
- A cancer registration rate of **597** registrations per 100,000 age-sex standardised population (compared to 630 in Scotland), and an early deaths (<75 years) from cancer rate of **132** per 100,000 age-sex standardised population (compared to 150 in Scotland)<sup>4</sup>.
- **18.9%** of the population being prescribed medication for anxiety, depression, or psychosis. This is a smaller proportion than Scotland (20.1%).

### Life Expectancy

In the latest time period available from 2017 - 2021 (5-year aggregate), the average life expectancy in Northern locality was 77.4 years of age for men, and 82.3 years of age for women. A 10-year time trend can be seen in figure 10.

**Figure 10: Average life expectancy in men and women over time.**



Source: ScotPHO

Table 5 provides the average life expectancy for men and women in different areas for the latest time period available.

**Table 5: Average life expectancy in years for the latest time periods (2017 - 2021 aggregated years for the locality; 2020 - 2022 aggregated years for other areas).**

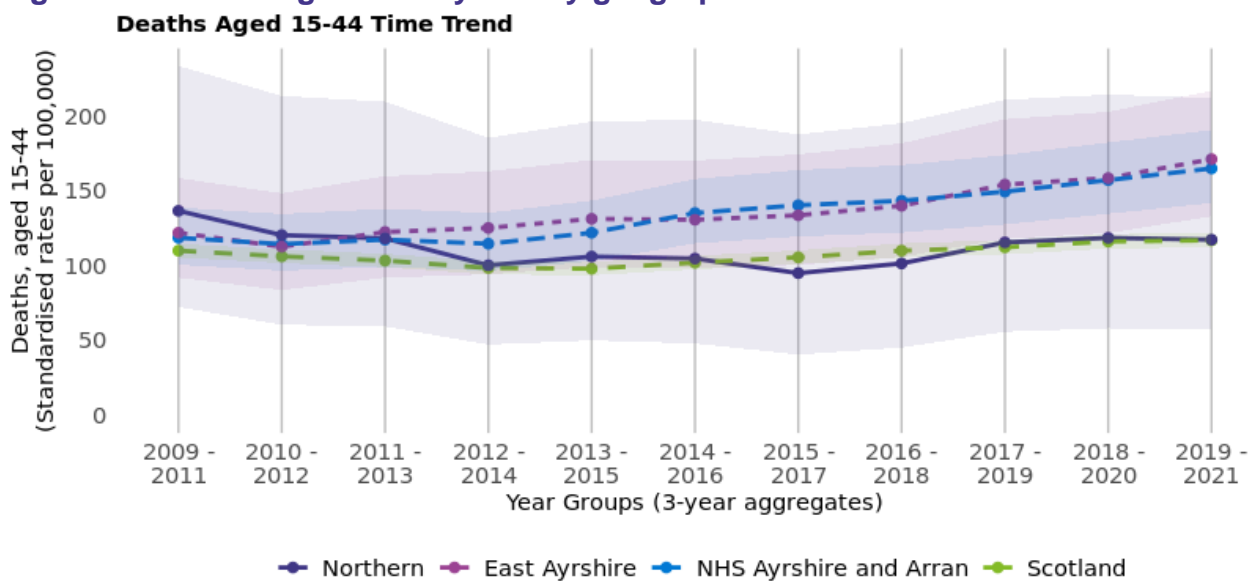
Sex	Northern	East Ayrshire	NHS Ayrshire and Arran	Scotland
Female	82.3	79.1	79.8	80.7
Male	77.4	74.8	75.3	76.5

Source: ScotPHO

### Deaths, aged 15-44

The following chart shows a trend of death rates among 15-44 year olds per 100,000 age-sex standardised population<sup>4</sup> by area. In the most recent aggregate time period available (2019 - 2021), the mortality rate in Northern locality was **118** deaths per 100,000 population.

**Figure 11: Deaths aged 15-44 years by geographical area and over time.**

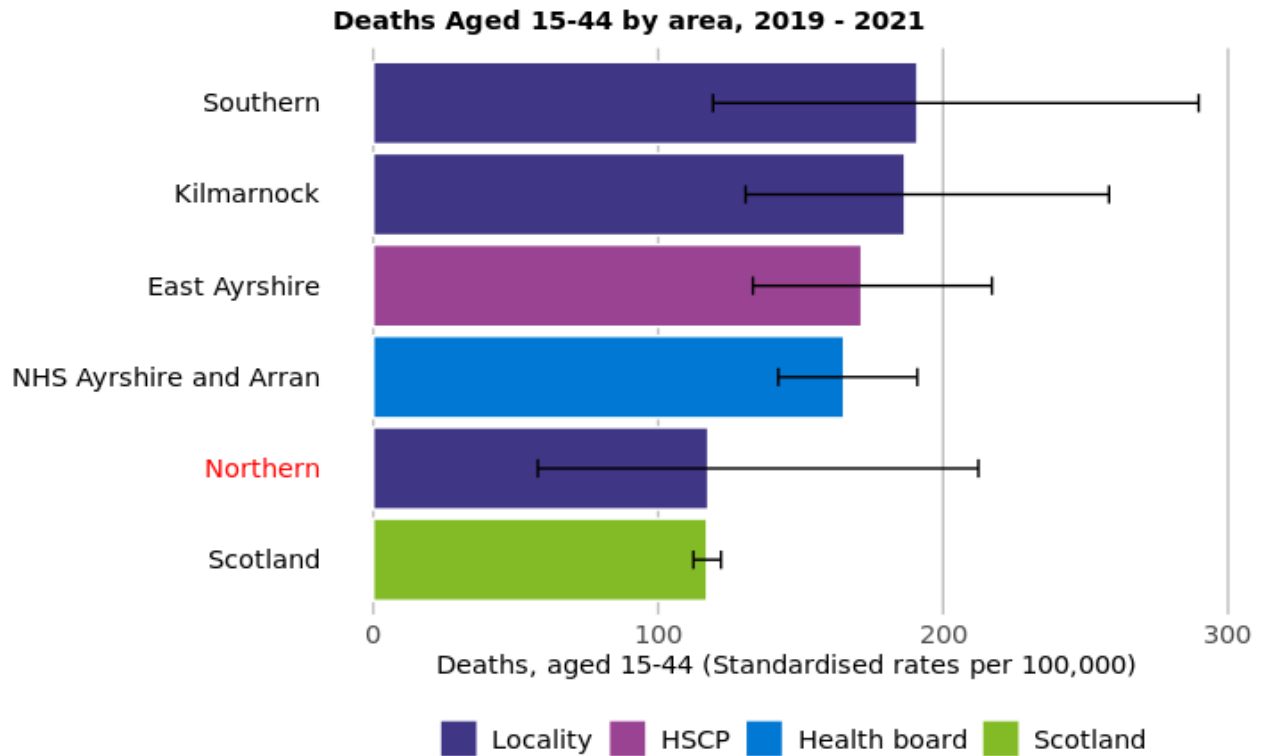


Source: ScotPHO



Figure 12 provides comparisons of deaths at ages 15-44 across all areas including other localities in East Ayrshire HSCP. In 2019 - 2021, Northern had a higher rate than the rest of Scotland (118 compared to 117 deaths per 100,000).

**Figure 12: Deaths at ages 15-44 by area for the latest time period available.**

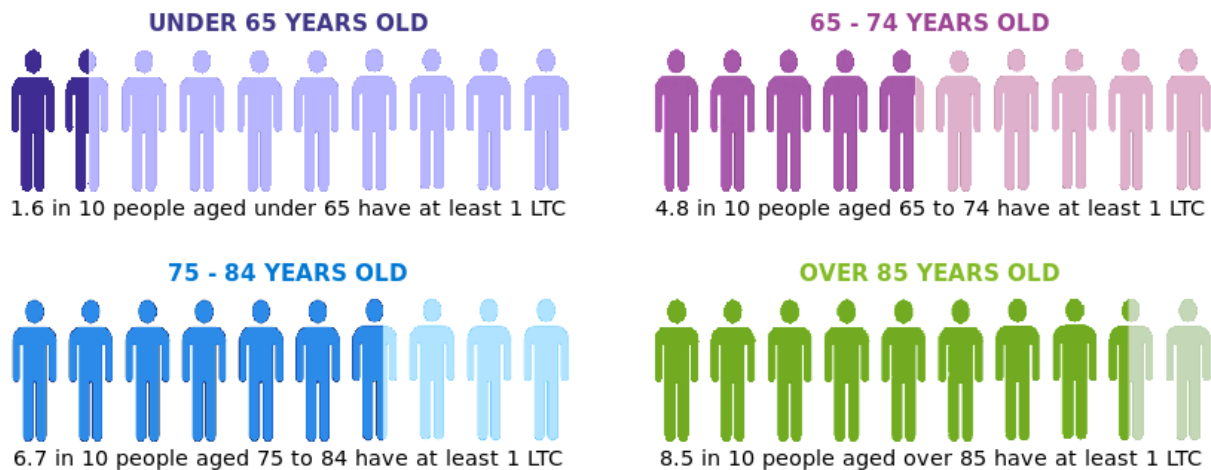


Source: ScotPHO



## Long-Term Physical Health Conditions and Multimorbidity

In the financial year 2022/23, in Northern Locality, it is estimated that **25.4%** of the population had at least one physical long-term condition (LTC). These include: cardiovascular, neurodegenerative, and respiratory conditions, as well as other organ conditions (namely liver disease and renal failure), arthritis, cancer, diabetes, and epilepsy. *Please note that estimates for this section are based on people who had contact with NHS services - see footnotes for further information and caveats on identifying LTCs.<sup>5</sup>*



The co-occurrence of two or more conditions, known as multimorbidity, is broken down in table 6, distinguishing between age groups. Overall, **3.6%** of those under the age of 65 have more than one LTC, compared to **30.9%** of those aged over 65.

**Table 6: Multimorbidity of physical long-term conditions by age group in 2022/23.**

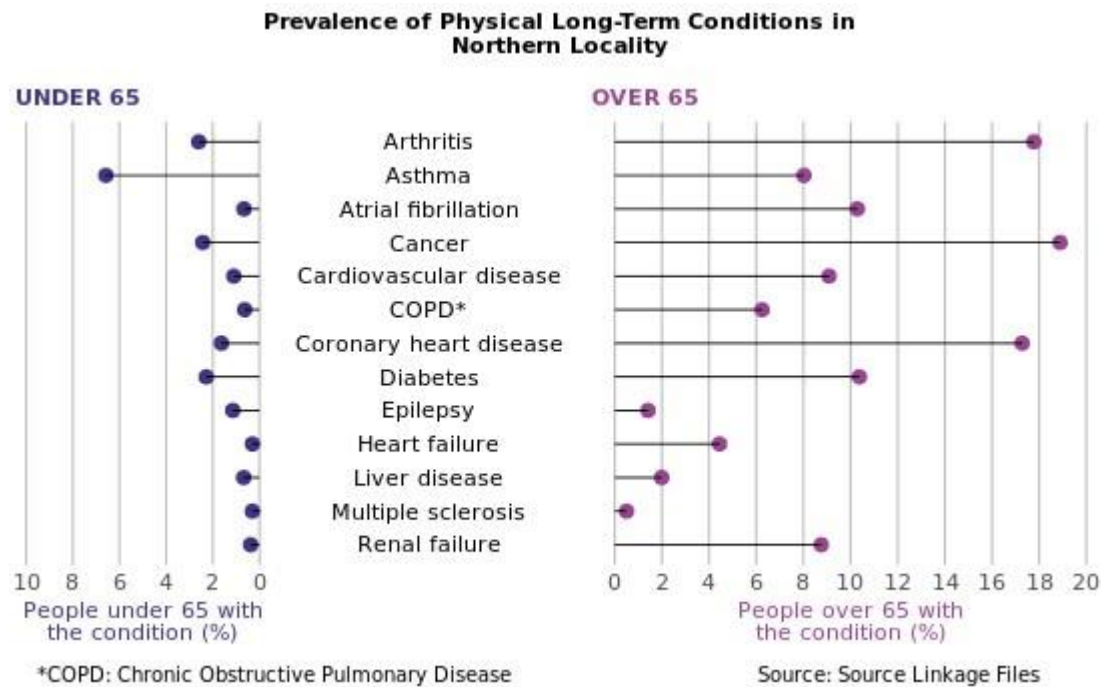
	Proportion over 65 (%)	Proportion under 65 (%)
1 LTC	27.5	12.3
2 LTCs	14.7	2.5
3 LTCs	8.6	0.8
4 or more LTCs	7.6	0.3

Source: Source Linkage Files

### Most common physical Long-Term Conditions (LTCs)

Below is a breakdown of the physical LTCs, for the financial year 2022/23. Figure 13 shows the prevalence of different LTCs in each age group in Northern locality, and Table 7 illustrates the top 5 physical LTCs across all ages at locality, partnership, and Scotland level.

**Figure 13: Percentage people with each physical LTC, split by age group.**



**Table 7: Prevalence of the five most common physical LTCs as a percentage of the population across geographical areas (where 1 = most prevalent).**

**Top 5 Physical Long-Term Conditions 2022/23**

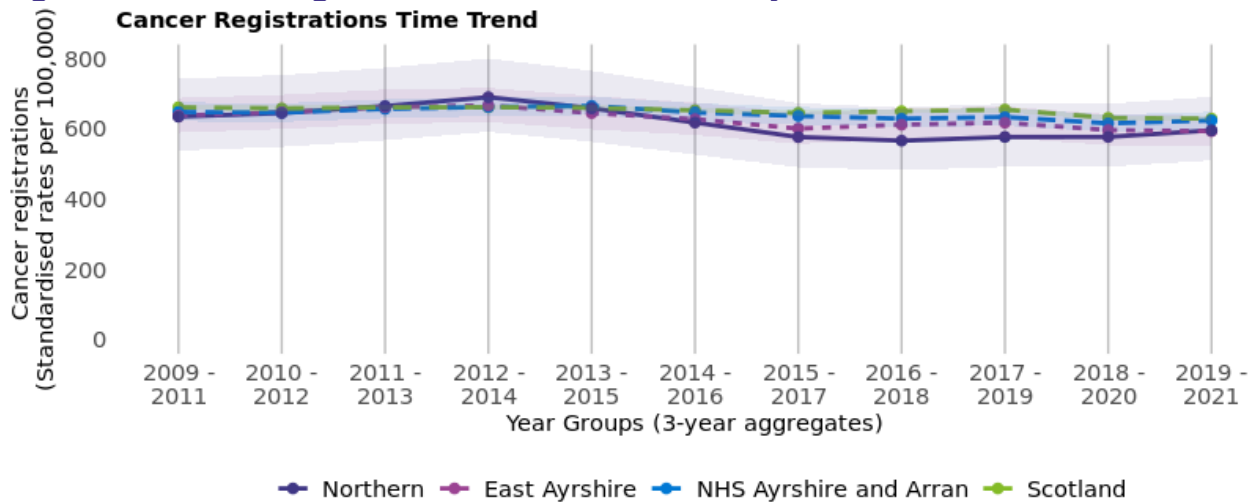
	Northern Locality	East Ayrshire HSCP	Scotland
1	<b>Asthma</b> 6.91%	<b>Asthma</b> 7.7%	<b>Arthritis</b> 5.6%
2	<b>Cancer</b> 6.15%	<b>Arthritis</b> 6.37%	<b>Cancer</b> 5.34%
3	<b>Arthritis</b> 6.03%	<b>Coronary heart disease</b> 6.08%	<b>Asthma</b> 4.84%
4	<b>Coronary heart disease</b> 5.17%	<b>Cancer</b> 5.97%	<b>Coronary heart disease</b> 4.69%
5	<b>Diabetes</b> 4.11%	<b>Diabetes</b> 4.7%	<b>Diabetes</b> 3.38%

Source: Source Linkage Files

## Cancer

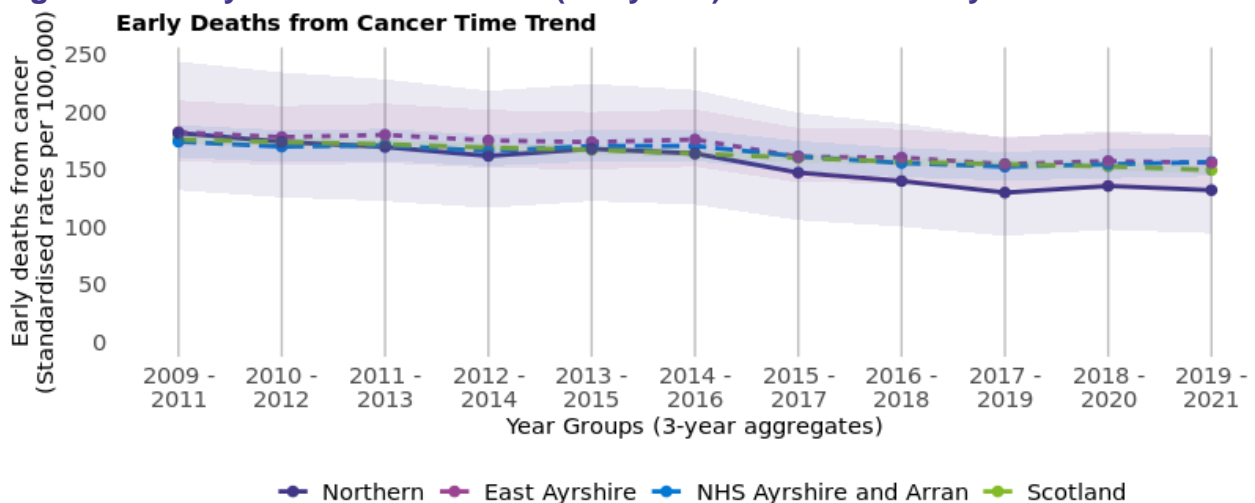
For the period 2019 - 2021, there were **182** new cancer registrations per year on average (**597** registrations per 100,000 age-sex standardised population) in Northern locality. For the period 2019 - 2021, there were also **132** early deaths per 100,000 from cancer in the locality, this is a **27.2%** decrease compared to the rate 10 years prior.

**Figure 14: Cancer registration rate over time and by area.**



Source: ScotPHO

**Figure 15: Early deaths from cancer (<75 years) over time and by area.**



Source: ScotPHO

## Hospitalisations by condition

Patient hospitalisations can provide some indication of how certain diseases have varying impacts on people's lives. In the latest time period available in Northern, the condition with the highest rate of hospitalisations was Coronary Heart Disease.

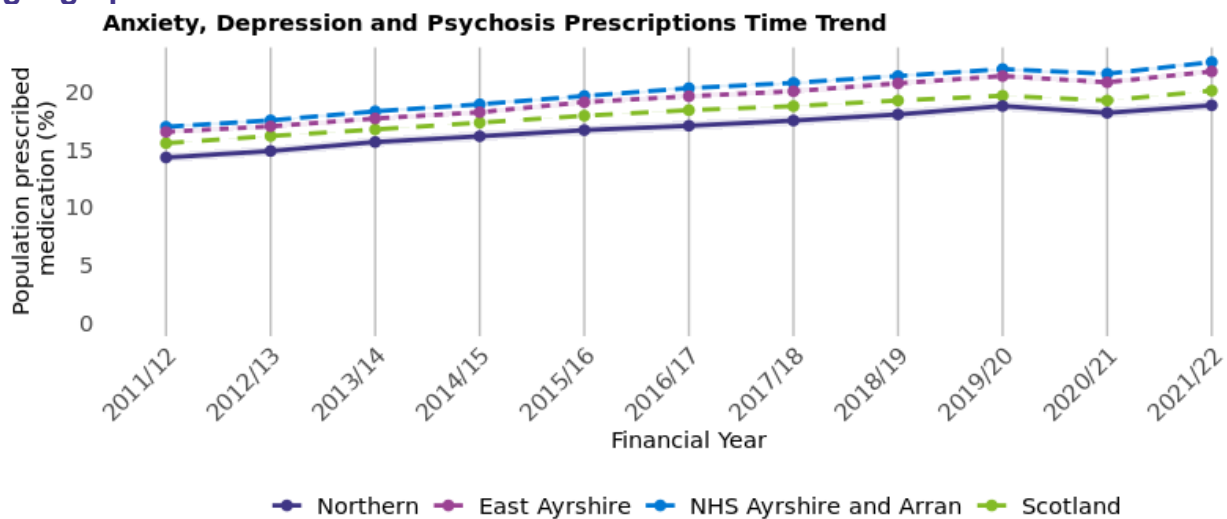
**Table 8: Patient hospitalisations by condition and geographical area 2019/20 - 2021/22, age-sex standardised rates per 100,000<sup>3,4</sup>.**

Disease	Latest time period	Northern	East Ayrshire	NHS Ayrshire and Arran	Scotland
Asthma	2019/20 - 2021/22	75.8	92.9	90.4	68.4
COPD	2019/20 - 2021/22	186.4	286.3	257.4	207.5
Coronary Heart Disease	2019/20 - 2021/22	338.5	454.8	454.5	341.6

## Anxiety, Depression, and Psychosis prescriptions

In 2021/22, **18.9%** of people were prescribed medication for anxiety, depression, or psychosis in Northern Locality. This is a **31.5% increase** from the rate 10 years prior in 2011/12.

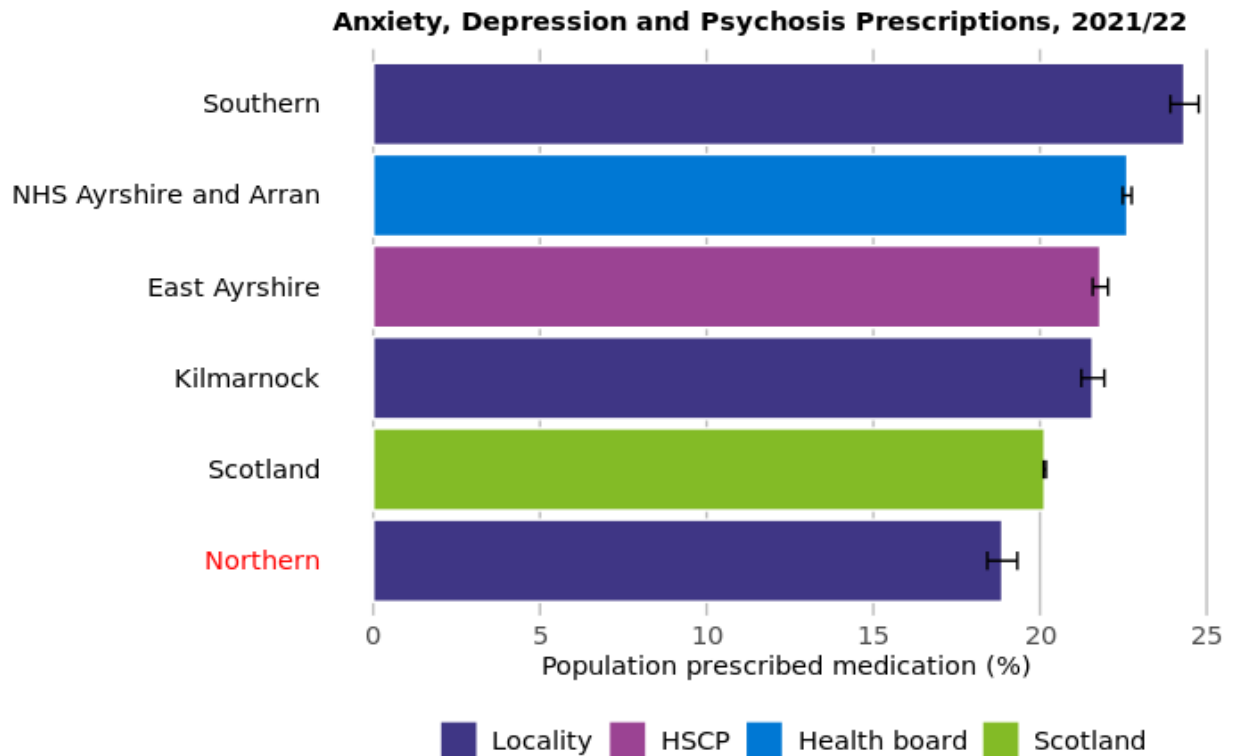
**Figure 16: Anxiety, depression, and psychosis prescriptions over time and by geographical area.**



Source: ScotPHO

In 2021/22, Northern had a smaller proportion of the population being prescribed medication for anxiety, depression, and psychosis compared to the rest of Scotland (18.9% compared to 20.1%).

**Figure 17: Percentage population prescribed medication for anxiety, depression, and psychosis by area for the latest time period available.**



Source: ScotPHO

## Lifestyle and Risk Factors

### Summary

Mental and physical wellbeing has close ties with people's lifestyles and behaviours. Financial security, employment and location are influences that often have a bearing on these choices. Issues can develop when alcohol, smoking or drug use shape lives. This section provides data on drug-related hospital admissions, alcohol-related hospital admissions, alcohol-specific deaths and bowel screening uptake, to give an overview of some of the lifestyles and behaviours for Northern locality. These can give an idea of quality of life and prosperity.

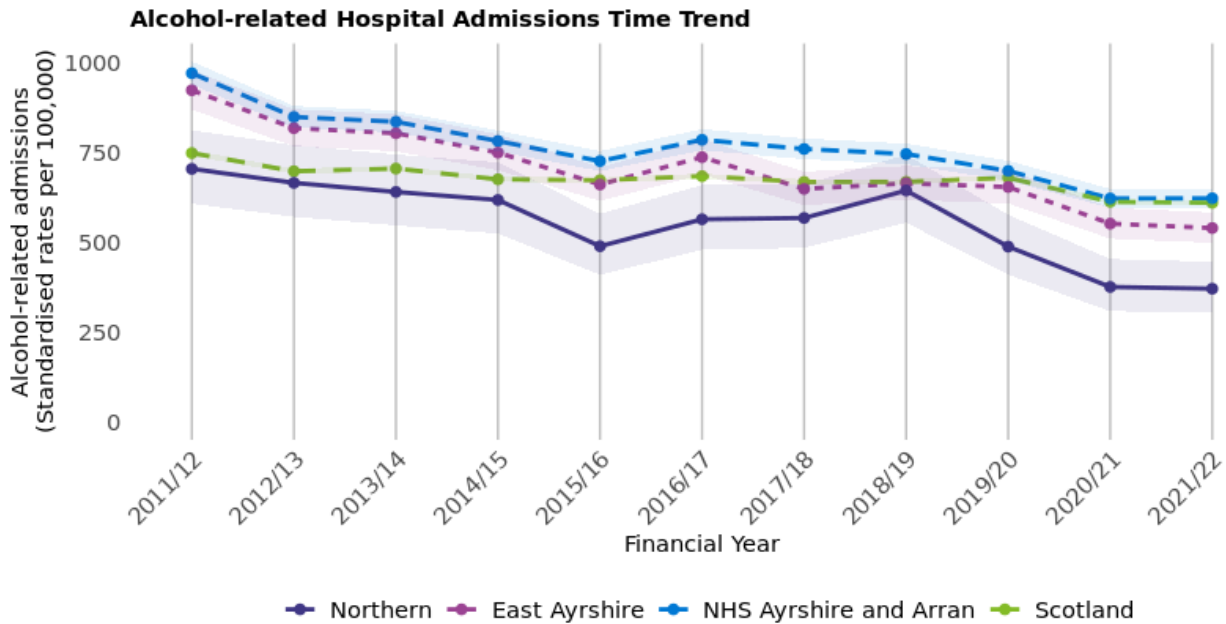
For the most recent time period available<sup>3</sup>, Northern had:

- **371** alcohol-related hospital admissions per 100,000 age-sex standardised population. This is lower than Scotland (611 admissions per 100,000)<sup>4</sup>.
- **18.1** alcohol-specific deaths per 100,000 age-sex standardised population. This is lower than Scotland (21.1 deaths per 100,000)<sup>4</sup>.
- **179** drug-related hospital admissions per 100,000 age-sex standardised population. This is lower than Scotland (228 admissions per 100,000)<sup>4</sup>.
- **65.7%** uptake of bowel screening among eligible population, compared to 65.6% in Scotland.

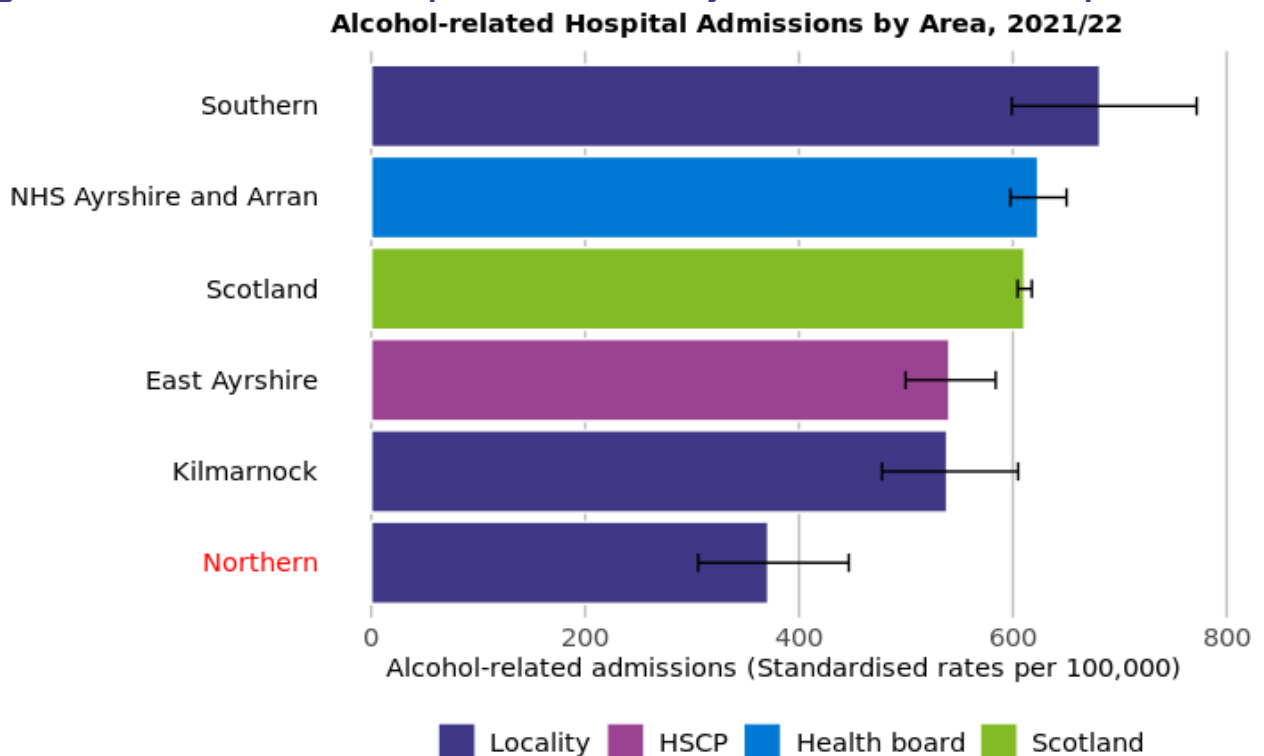
### Alcohol-related Hospital Admissions

In 2021/22, the rate of alcohol-related admissions was **371** per 100,000 age-sex standardised population in Northern. This is a 50.1% decrease overall since 2002/03. Figure 17 shows a trend of alcohol-related hospital admissions for Northern locality compared with Scotland, East Ayrshire HSCP and NHS Ayrshire and Arran from financial year 2002/03 to 2021/22.

Figure 18 then compares different areas, including the other localities in East Ayrshire, for the latest financial year. This bar chart shows that in 2021/22, Northern locality had a lower alcohol-related hospital admissions rate compared to Scotland (371 and 611 admissions respectively).

**Figure 17: Alcohol-related hospital admission rates by area and over time.**

Source: ScotPHO

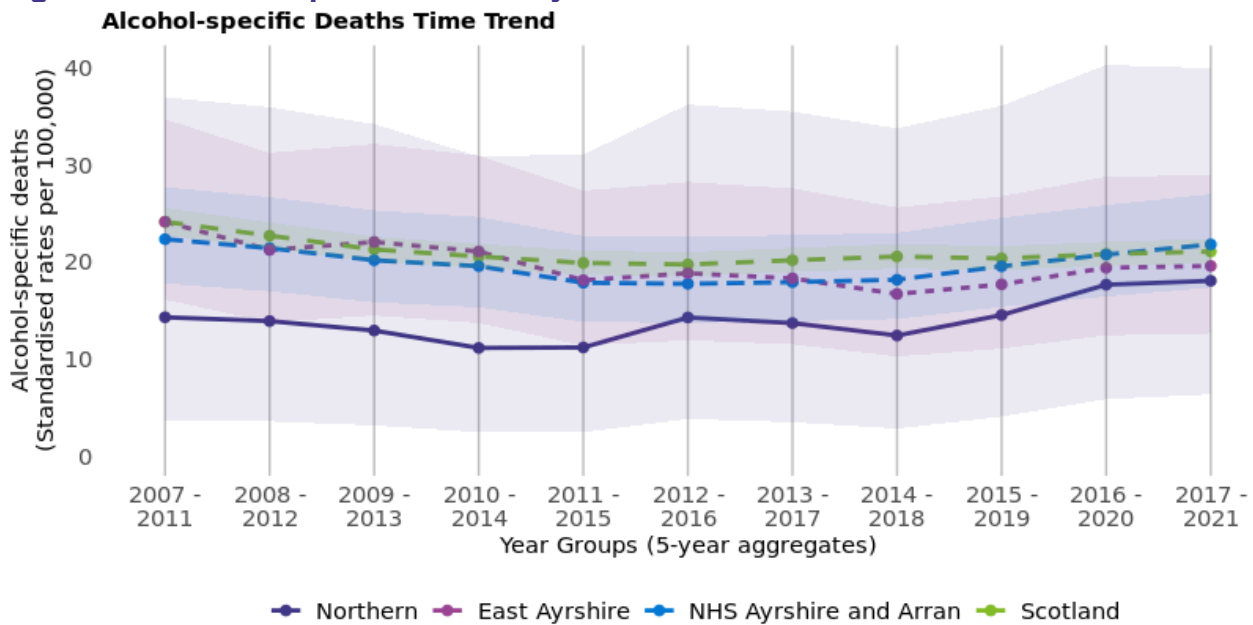
**Figure 18: Alcohol-related hospital admissions by area for the latest time period.**

Source: ScotPHO

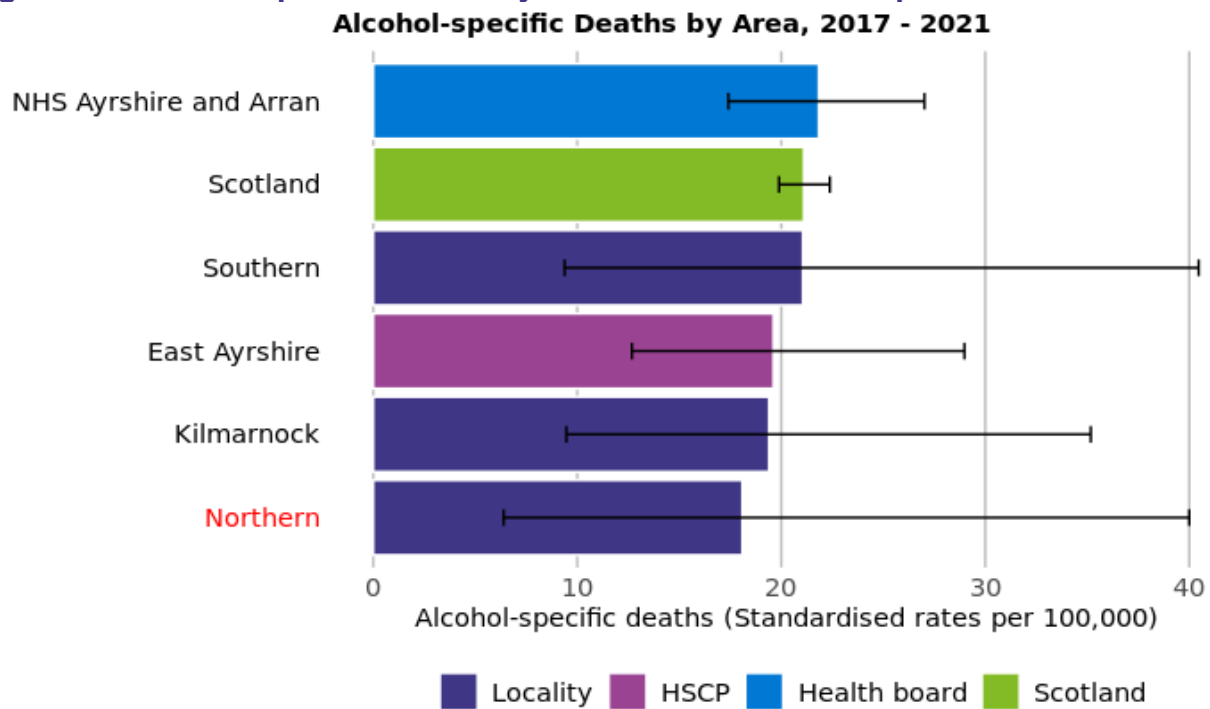
### Alcohol-Specific Deaths

Data on alcohol-specific deaths is available as 5-year aggregates. In Northern, the latest rate of alcohol-specific deaths was **18.1** deaths per 100,000 age-sex standardised population. This is 25.5% higher than the rate in 2002 - 2006. Figure 20 also shows that the locality has a lower alcohol-specific death rate compared to Scotland overall (21.1 deaths per 100,000).

**Figure 19: Alcohol-specific deaths by area and over time.**



**Figure 20: Alcohol-specific deaths by area for the latest time period available.**



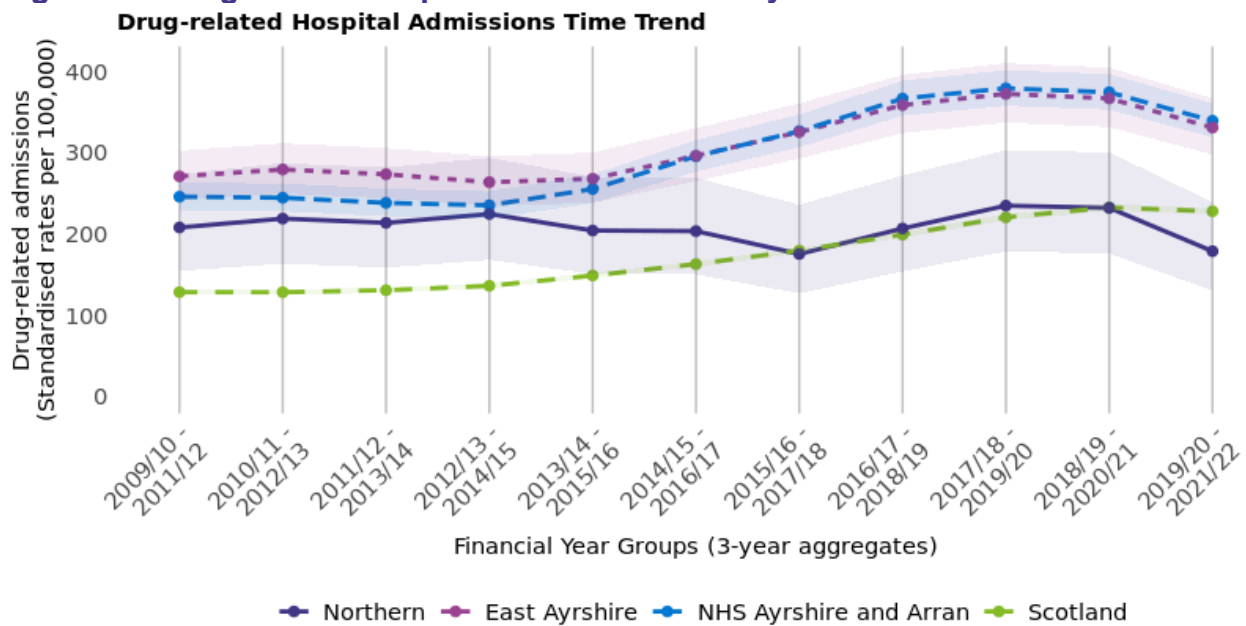
## Drug-related Hospital Admissions

There were **179** drug-related hospital admissions per 100,000 age-sex standardised population<sup>4</sup> in Northern locality in the time period 2019/20 - 2021/22 (3-year financial year aggregate). This is a 34.3% increase since 2002/03 - 2004/05. A trend of the change in drug-related hospital admissions for the locality and comparable areas is shown in figure 21 from 2002/03 - 2004/05 onward.



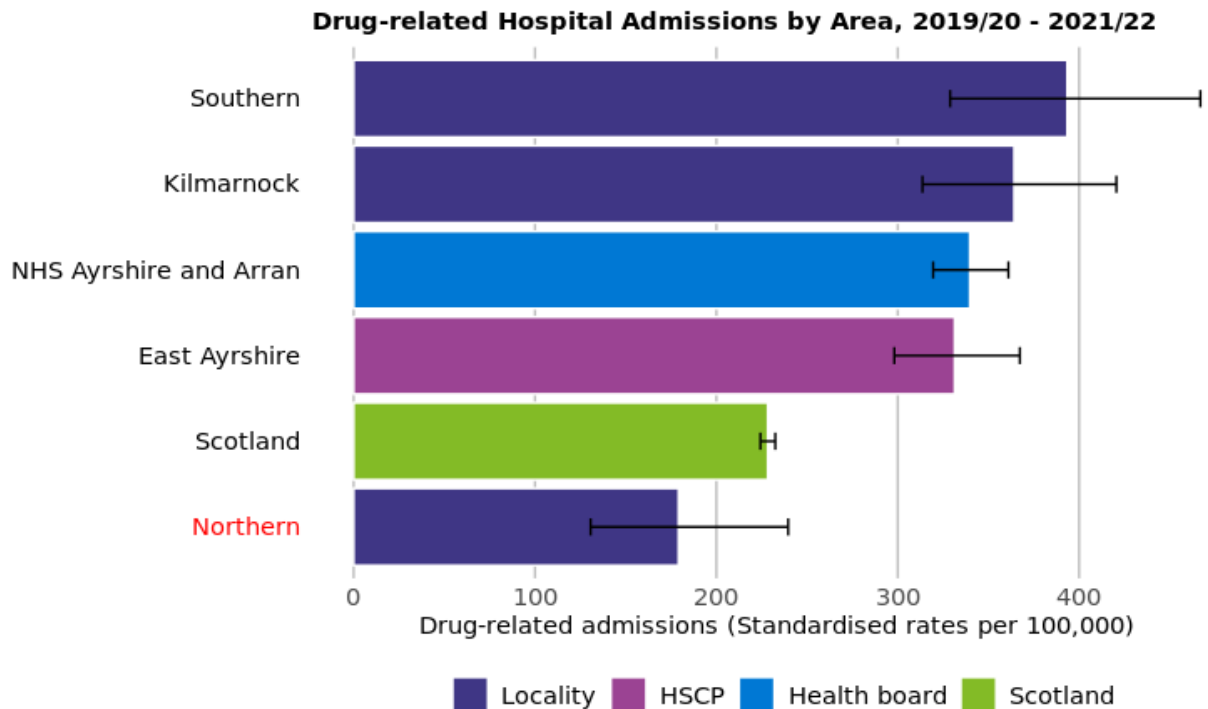
A comparison of areas at the most recent time period (2019/20 - 2021/22 aggregated financial years) is available in figure 22. This shows Northern locality has a lower rate of drug-related hospital admissions than Scotland (228 admissions per 100,000).

**Figure 21: Drug-related hospital admission rates by area and over time.**



Source: ScotPHO

**Figure 22: Drug-related hospital admission rates by area for the latest time period available.**



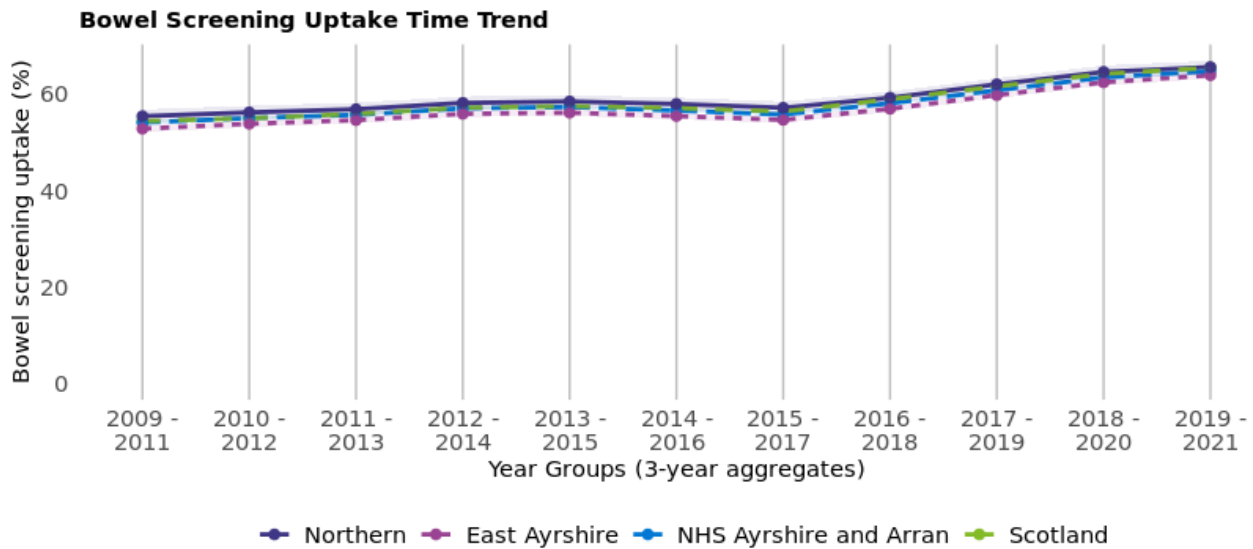
Source: ScotPHO

## Bowel Screening Uptake

Bowel screening is offered every two years to eligible men and women aged between 50-74 years old. Eligible people are posted a test kit which is completed at home. Since 1st April 2013, those aged 75 and over can also self-refer and opt into screening.

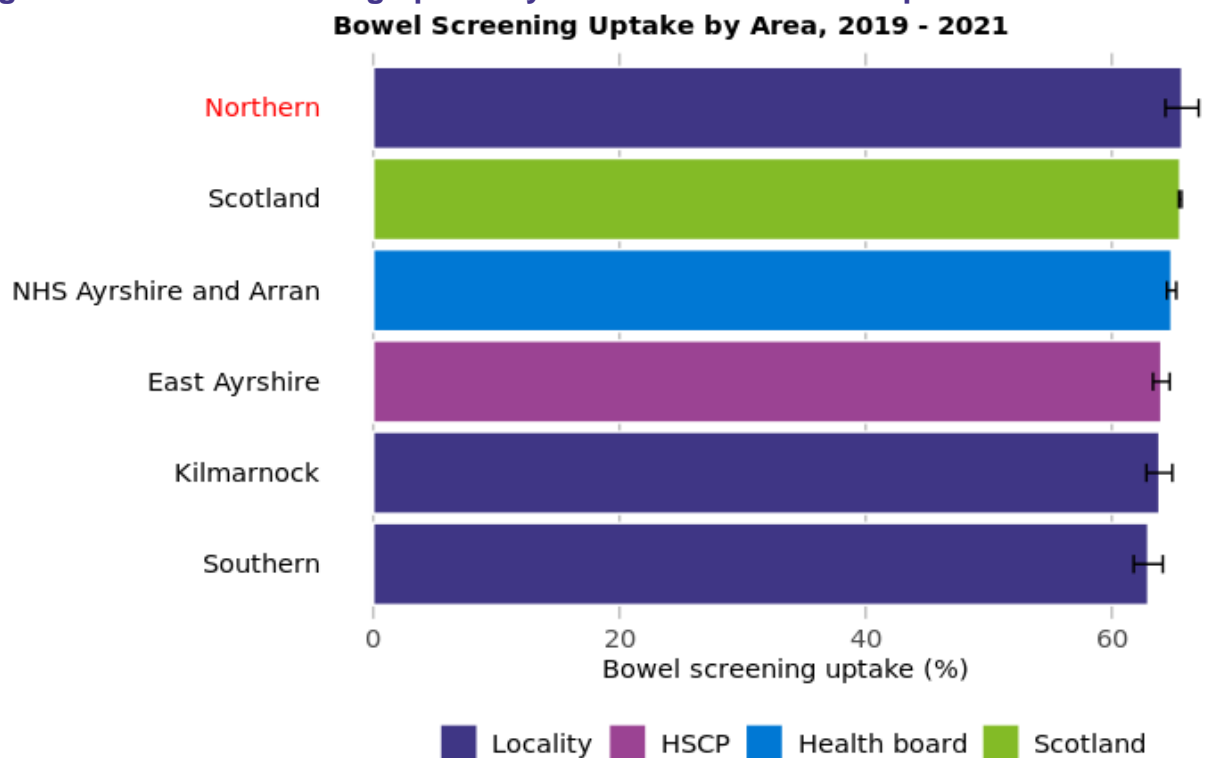
A trend of the percentage uptake of bowel screening among the eligible population is shown the locality and comparable areas. Data is presented as 3-year aggregates. The 2019 - 2021 uptake rate for Northern is **65.7%**. This is a 21.3% increase since 2008 - 2010. As can be seen in figure 24, in the latest estimate, the uptake in Northern was higher than the uptake in Scotland overall (65.6%).

**Figure 23: Bowel screening uptake for eligible men and women, by area and over time.**



Source: ScotPHO

**Figure 24: Bowel screening uptake by area for the latest time period available.**



Source: ScotPHO

## Hospital and Community Care

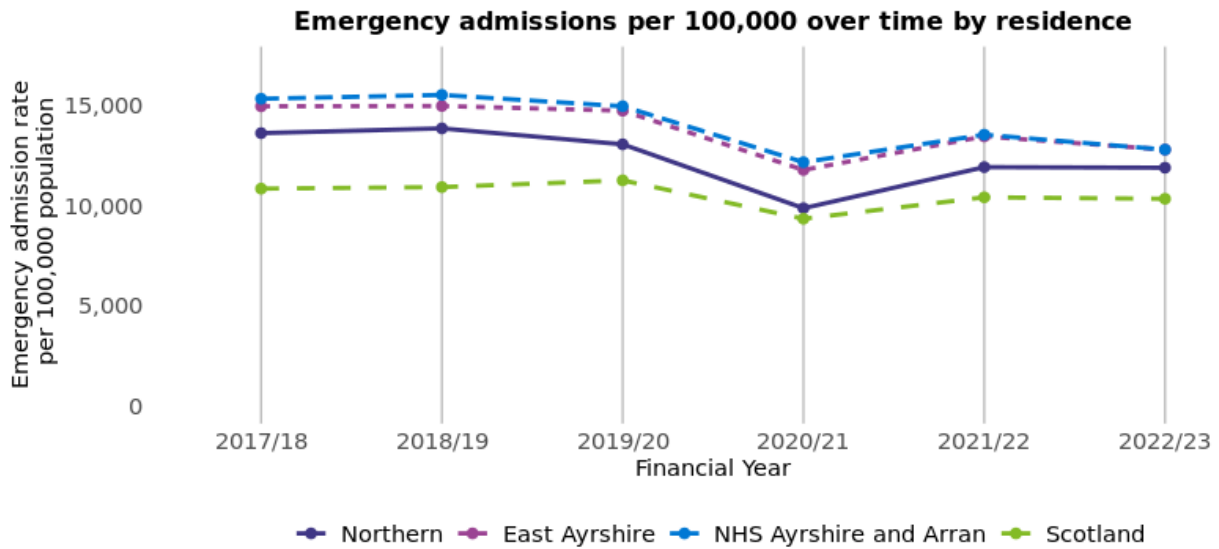
### Summary

This section includes acute hospital data, delayed discharge bed days and A&E attendances. For the most recent time period available, Northern had:

- **11,920** emergency hospital admissions per 100,000 population, compared to 10,367 in Scotland.
- **86,721** unscheduled acute specialty bed days per 100,000 population, compared to 77,178 in Scotland.
- **23,323** A&E attendances per 100,000 population, compared to 26,382 in Scotland.
- **34,159** delayed discharge bed days per 100,000 population aged over 65, compared to 50,362 in Scotland.
- **1,799** emergency hospital admissions from falls per 100,000 population aged over 65, compared to 2,283 in Scotland.
- **95.5** emergency readmissions (28 day) per 1,000 discharges, compared to 102 in Scotland.
- **2,107** potentially preventable hospital admissions per 100,000 population, compared to 1,638 in Scotland.

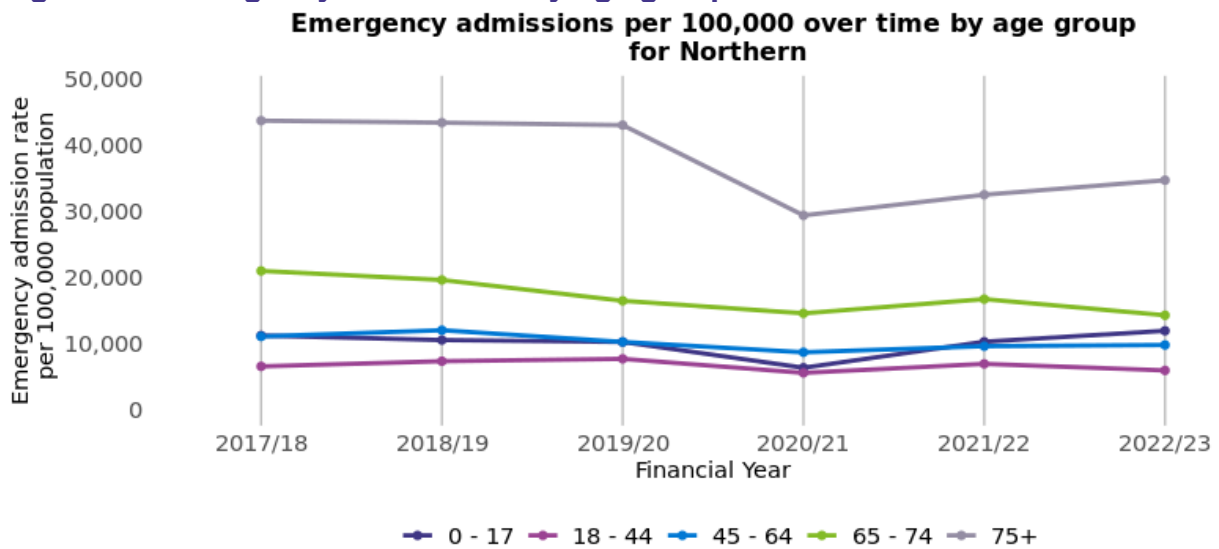
## Emergency Admissions

**Figure 25: Emergency admissions by geographical area**



Source: PHS SMR01

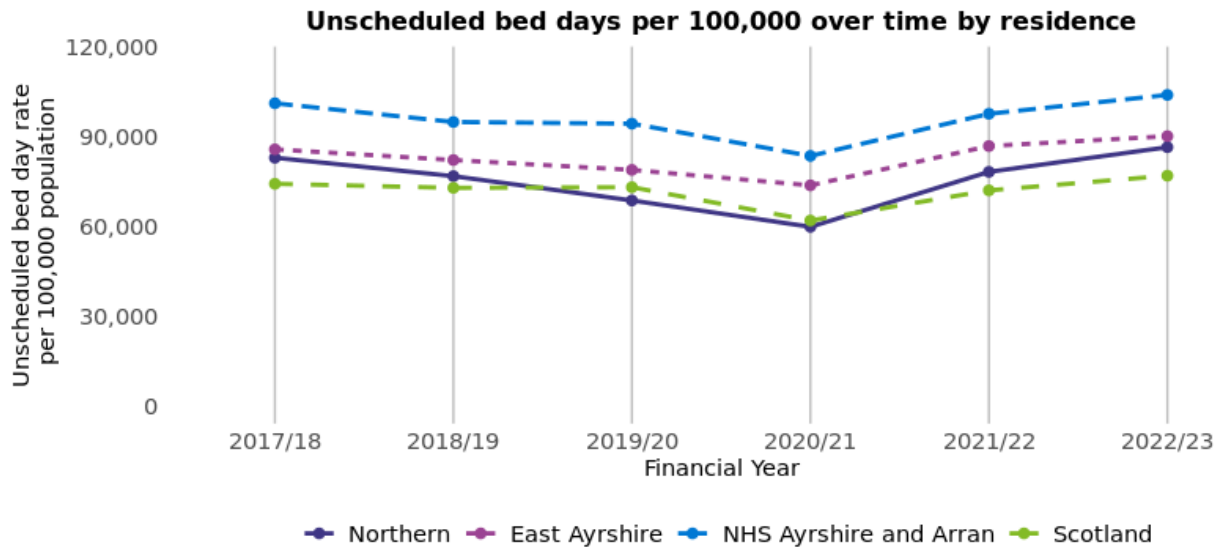
**Figure 26: Emergency admissions by age group**



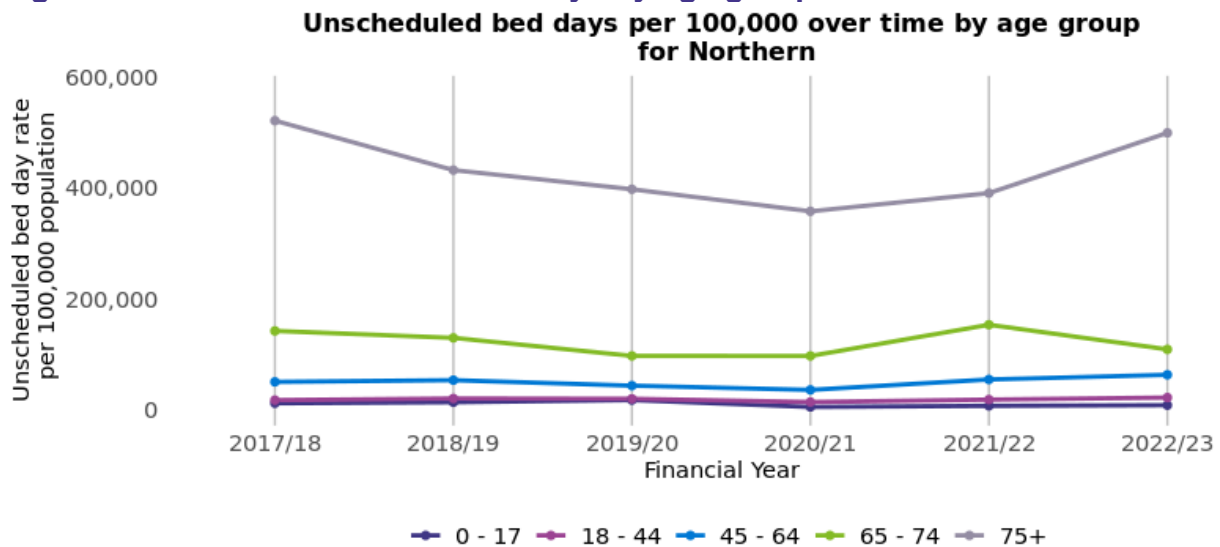
Source: PHS SMR01

## Unscheduled Acute Bed Days

**Figure 27: Unscheduled acute bed days by geographical area**

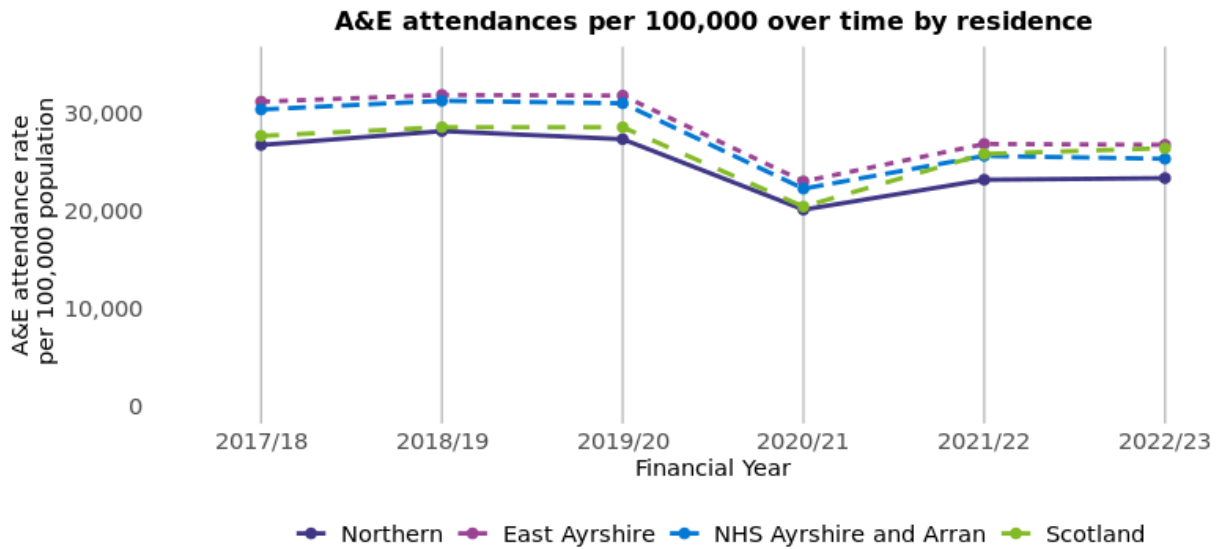


**Figure 28: Unscheduled acute bed days by age group**

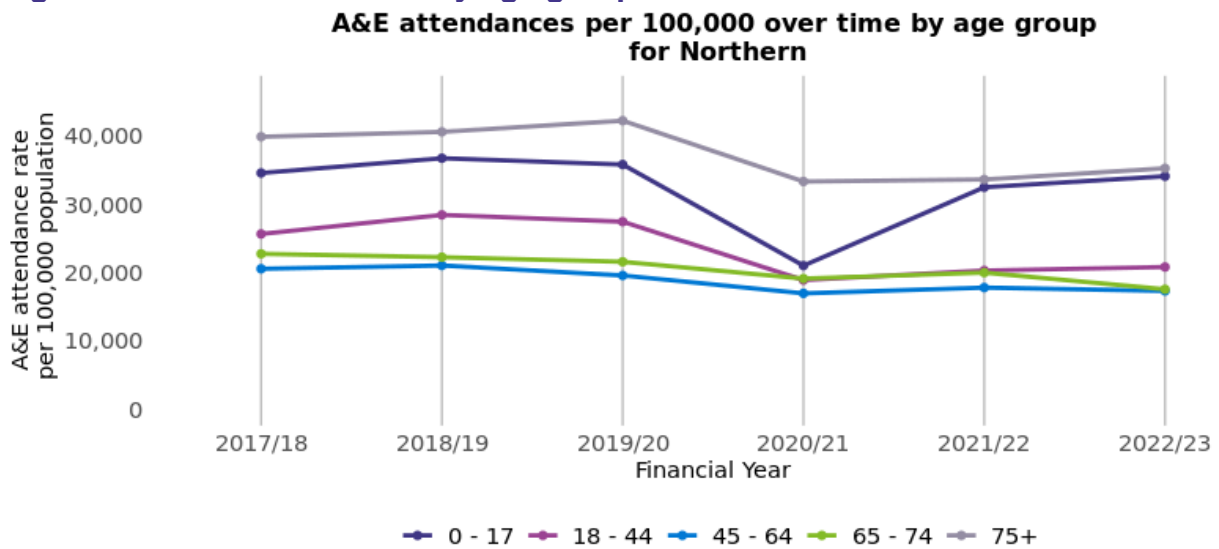


## A&E Attendances

**Figure 29: A&E attendances by geographical area**

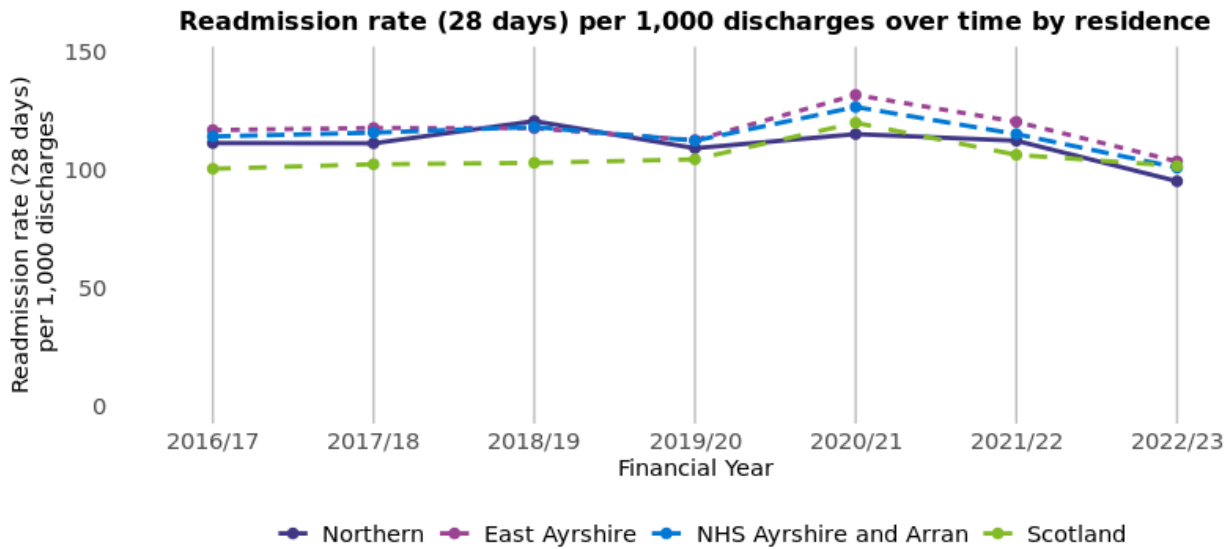


**Figure 30: A&E attendances by age group**

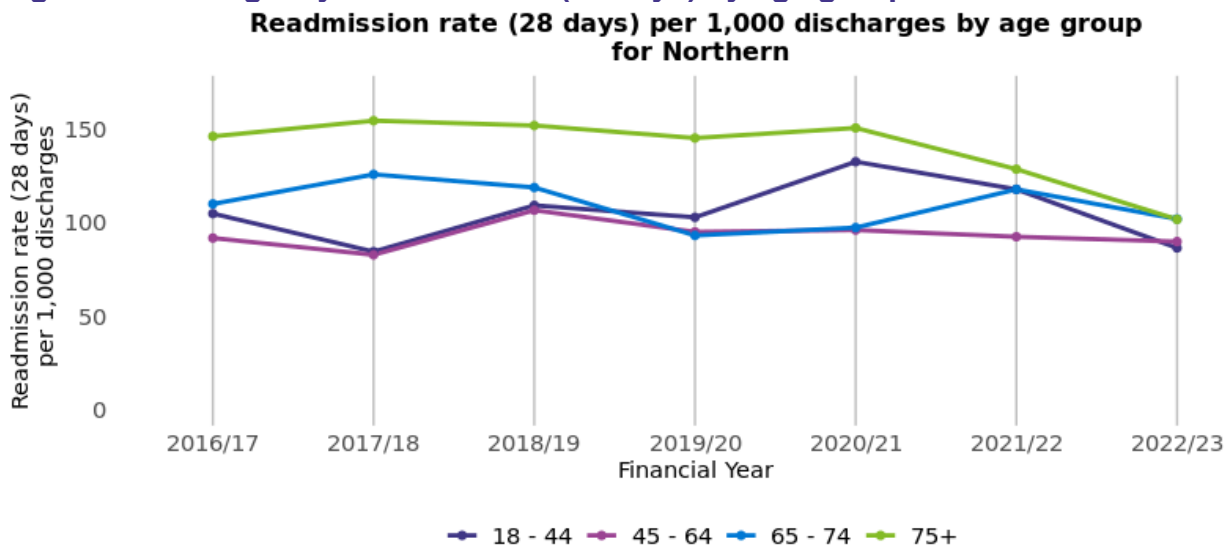


## Emergency Readmissions (28 days)

**Figure 31: Emergency readmissions (28 days) by geographical area**



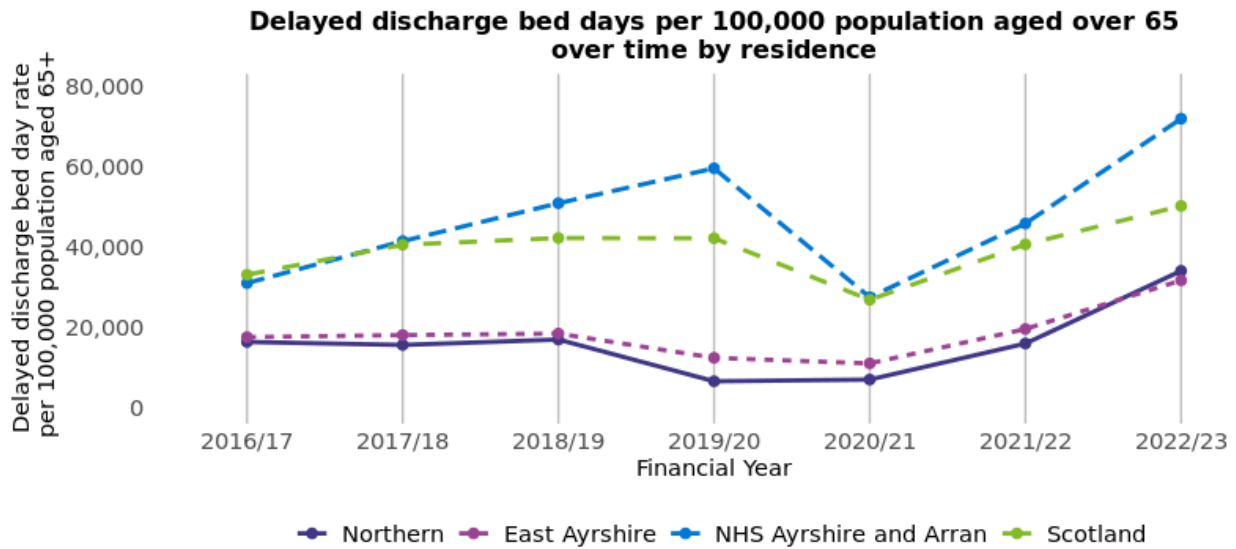
**Figure 32: Emergency readmissions (28 days) by age group**





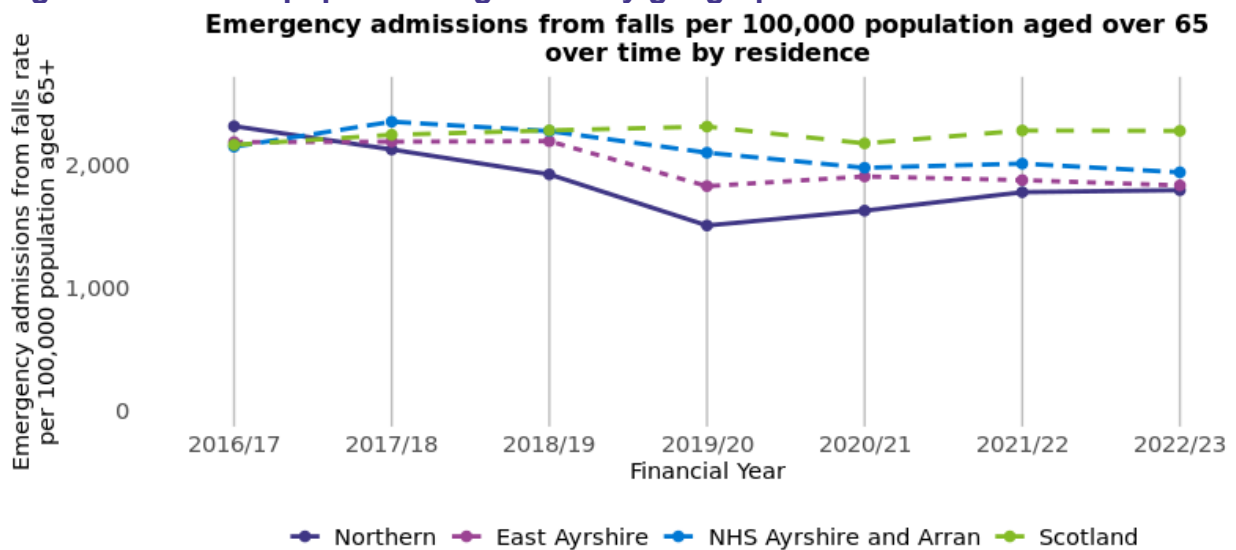
## Delayed Discharge Bed Days

**Figure 33: Delayed discharge bed days in population aged 65+ by geographical area**



## Emergency admissions from a fall

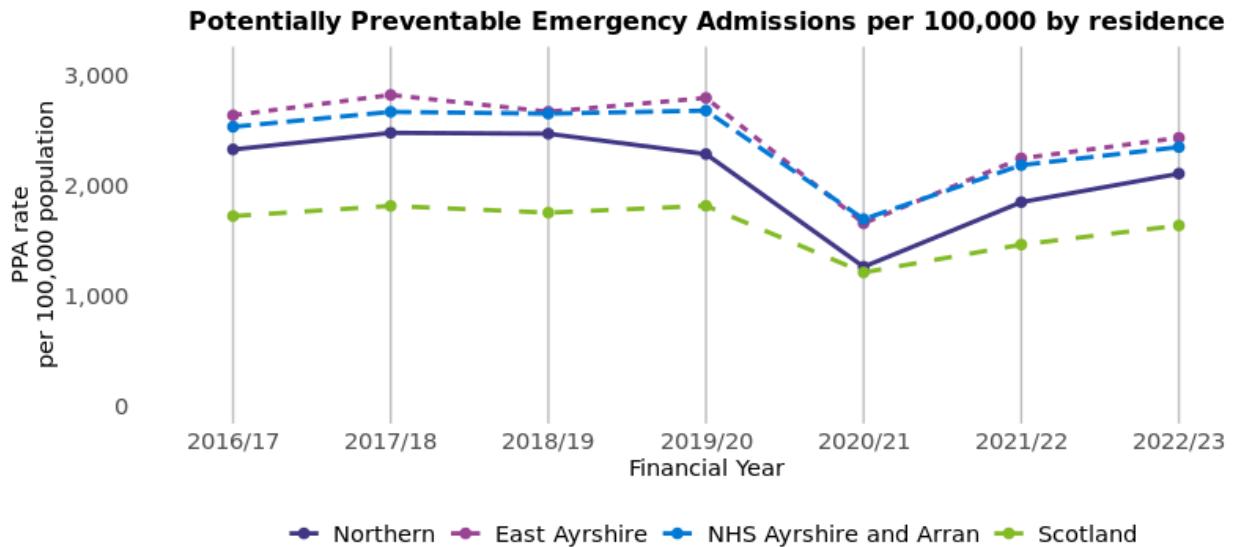
**Figure 34: Falls in population aged 65+ by geographical area**



### Potentially Preventable Admissions (PPAs)

Information on the conditions included in PPAs is available in Appendix 3. In 2022/23, **44.8%** of PPAs in Northern were amongst those aged 65 and over, and **55.2%** were amongst those aged under 65.

**Figure 35: Potentially Preventable Admissions (PPAs) by geographical area**



Source: PHS SMR01

## Hospital Care (Mental Health Speciality)

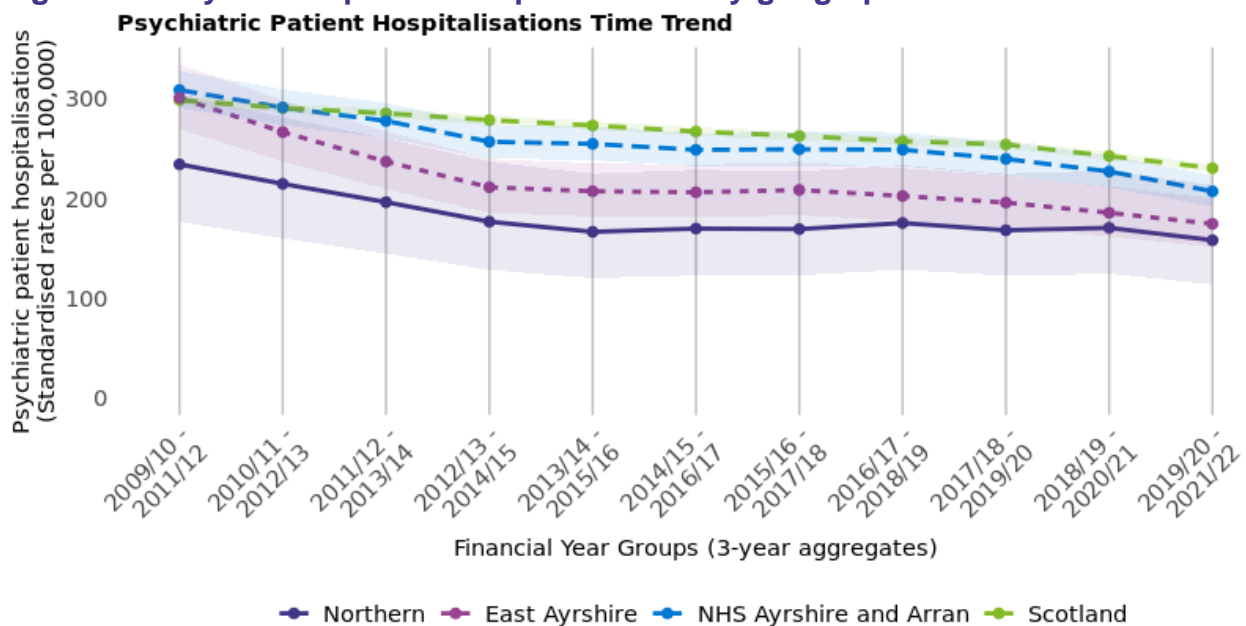
### Summary

This section looks at mental health related unscheduled care indicators. For the most recent time period available, Northern had:

- **158.4** psychiatric patient hospitalisations per 100,000, compared to 230.7 in Scotland<sup>4</sup>.
- **17,321** unscheduled mental health specialty bed days per 100,000, compared to 18,735 in Scotland.

### Psychiatric patient hospitalisations

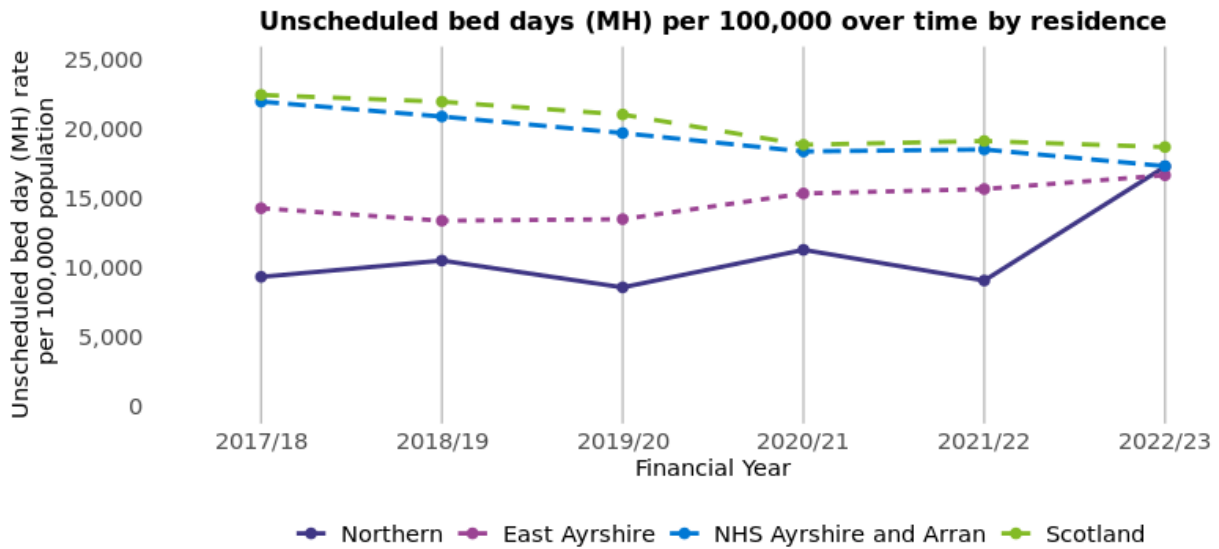
**Figure 36: Psychiatric patient hospitalisations by geographical area**



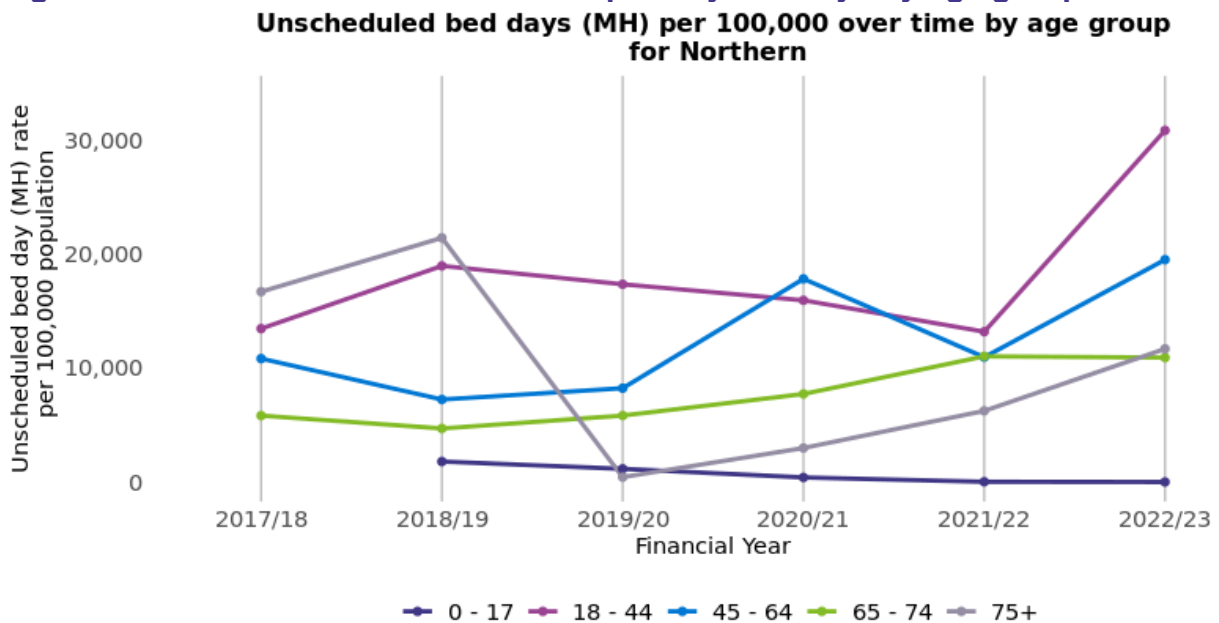
Source: ScotPHO

## Unscheduled Mental Health Specialty Bed Days

**Figure 37: Unscheduled mental health specialty bed days by geographical area**



**Figure 38: Unscheduled mental health specialty bed days by age group**



## Footnotes

1. Population projections are not currently provided by NRS at the locality level. To explore how the population in Northern is expected to change in the future, the percent changes in population projection to 2028 for East Ayrshire by age group and gender were calculated from the NRS Local Authority Population Projections. These percent changes were then applied to the Northern 2021 mid-year population estimates (also split by age group and gender) to obtain population projection estimates for Northern, based on the projections for the HSCP and the current population structure of the locality.
2. Care Home Data included in the Services Map and Table was sourced from the [Care Inspectorate](#). [GP Practice](#) data from October 2021, and [Hospital](#) and [A&E](#) data was sourced from Public Health Scotland Open Data. Only services that are within the physical boundary of the HSCP or Locality are included in the map and table, so there may be services outside East Ayrshire which people may use but are not shown. Information on access deprivation was taken from [ScotPHO](#).
3. Sourced from [ScotPHO](#). There may be more recent data available for the indicators elsewhere.
4. Data taken from ScotPHO is often reported using the European Age-Sex Standardised Rate per 100,000. This allows for comparisons across different areas to be made. For more information on how these rates are calculated, please refer to [www.isdscotland.org/Products-and-Services/GPD-Support/Population/Standard-Populations/](http://www.isdscotland.org/Products-and-Services/GPD-Support/Population/Standard-Populations/)
5. Physical long-term conditions data comes from the Source Linkage Files, and the conditions are identified using ICD-9 and ICD-10 codes in the diagnosis fields. Please note that the Source Linkage Files data only contains information on people who have had contact with the NHS through either inpatient admissions, outpatient attendances, daycase attendances, A&E attendances or through prescribed items, the data does not show all service users in Scotland who have been diagnosed with an LTC as not all of these individuals will have used these services. Also note that LTC rates are based on an adjusted population indicator in the Source Linkage Files so that population sizes are closer to the official estimates.

## Appendices

### Appendix 1: Indicator Definitions

Indicator	Definition
<b>A&amp;E attendances</b>	The rate of A&E attendances per 100,000 population, includes data from 'New' and 'Unplanned Return' attendances at A&E, i.e. excludes those who are 'Recall' or 'Planned Return'. This indicator only contains data from all sites that submit episode level data. This impacts Highland and Aberdeenshire partnerships in particular as they have a number of sites which submit aggregate data.
<b>Alcohol-related hospital admissions</b>	General acute inpatient and day case stays with diagnosis of alcohol misuse in any diagnostic position (ICD-10 code: E24.4, E51.2, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, O35.4, P04.3, Q86.0, R78.0, T51.0, T51.1, T51.9, X45, X65, Y15, Y57.3, Y90, Y91, Z50.2, Z71.4, Z72.1). All rates have been standardised against the European standard population (ESP2013) and 2011-based population estimates.
<b>Alcohol-specific deaths</b>	Alcohol related deaths (based on new National Statistics definition): 5-year rolling average number and directly age-sex standardised rate per 100,000 population. (ICD-10 codes from the primary cause of death: E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, Q86.0, R78.0, X45, X65, Y15).
<b>Asthma patient hospitalisations</b>	Patients discharged from hospital (annually) diagnosed with asthma: 3 year rolling average number and directly age-sex standardised rate per 100,000 population. All rates are standardised against the European standard population (ESP2013) and 2011-base population estimates. Patient is selected only once per year, based on their first asthma related hospital admission that year.
<b>Bowel screening uptake</b>	Bowel screening uptake for all eligible men and women invited (aged 50-74): 3-year rolling average number percentage. Eligible men and women are posted a guaiac-based faecal occult blood test kit (FOBT) which should be completed at home. This involves collecting 2 samples from each of 3 separate bowel movements. The kit is returned in a pre-paid envelope to the central screening centre in Dundee and tested for hidden traces of blood in the stool. Individuals who have a positive FOBT result are referred to their local hospital for assessment and, where appropriate, offered a colonoscopy as the first line of investigation.
<b>Cancer registrations</b>	New cancer registrations: 3 year rolling average number and directly age-sex standardised rate per 100,000 population. All rates have been standardised against the European standard population (ESP2013) and 2011-base population estimates.

	ICD10: C00-C96 excluding C44 (principal diagnosis only).
<b>Chronic Obstructive Pulmonary Disease patient hospitalisations</b>	Patients aged 16 and over discharged from hospital with COPD: 3-year rolling average number and directly age-sex standardised rate per 100,000 population.
<b>Coronary Heart Disease patient hospitalisations</b>	Patients discharged from hospital with coronary heart disease: 3-year rolling average number and directly age-sex standardised rate per 100,000 population. All rates have been standardised against the European standard population(ESP2013) and 2011-base population estimates. Patient is selected only once per year, based on their first CHD related admission to hospital that year.
<b>Death, aged 15-44</b>	Deaths from all causes (ages 15-44 years), 3 year rolling average number and directly age sex standardised rate per 100,000 population. All rates have been standardised against the European standard population (ESP2013). Deaths assigned to year based on death registration date.
<b>Delayed discharge bed days</b>	The number of bed days occupied by people over the age of 65 experiencing a delay in their discharge from hospital, per 100,000 population. Includes the following reason groups: all reasons, health and social care, patient/carer/family-related and code 9s. Length of delay is calculated from the patient's ready for discharge date to either their discharge date within the specific calendar month or the end of the calendar month for patients who are still in delay.
<b>Drug-related hospital admissions</b>	General acute inpatient and day case stays with diagnosis of drug misuse in any diagnostic position (ICD10: F11-F16, F18, F19, T40.0-T40.9), 3-year rolling average number and directly age-sex standardised rate per 100,000 population. All rates have been standardised against the European standard population (ESP2013) and 2011-based population estimates.
<b>Early deaths from cancer</b>	Deaths from cancer (<75 years), 3 year rolling average number and directly age sex standardised rate per 100,000 population. All rates have been standardised against the European standard population (ESP2013). Death figures are based on year of registration.
<b>Emergency admissions</b>	Rate of emergency (non-elective) admissions of patients of all ages per 100,000 population, derived from data collected on discharges from non-obstetric and non-psychiatric hospitals (SMR01) in Scotland. Only patients treated as inpatients or day cases are included. The specialty of geriatric long stay is excluded. Data are reported by month of discharge.
<b>Emergency admissions from a fall</b>	Rate of acute emergency admissions (non-elective) of patients of all ages where a fall was logged as an ICD-10 code. ICD-10 codes W00-W19 were searched for in all diagnostic positions, in conjunction with the admission type codes 33 (Patient injury, home accident), 34 (Patient injury, incident at work) and 35



	(Patient injury, other).
<b>Emergency readmissions (28 day)</b>	The rate of readmissions of all adults (18+) within 28 days of an admission per 1,000 discharges. An emergency readmission is where the subsequent admission is an emergency and occurs up to and including 28 days from the initial admission. The initial admission can be of any type but must end within the time period of interest.
<b>Life expectancy, females</b>	Estimated female life expectancy at birth in years, multi-year average (over 3 years for NHS Boards and Local Authorities, 5 years for Intermediate zones). Mortality data are based on year of registration. They also include non-Scottish residence so the number of deaths match those produced by NRS.
<b>Life expectancy, males</b>	Estimated male life expectancy at birth in years, multi-year average (over 3 years for NHS Boards and Local Authorities, 5 years for Intermediate zones) Mortality data are based on year of registration. They also include non-Scottish residence so the number of deaths match those produced by NRS.
<b>People living in 15% most 'access deprived' areas</b>	Number and percentage of population living in 15% most 'access deprived' areas (data zones) in Scotland. Calculated using 2011-base population estimates.
<b>Physical Long-Term Conditions (LTCs)</b>	Health conditions that last a year or longer, impact a person's life, and may require ongoing care and support. The LTCs presented are: Arthritis, Atrial Fibrillation, Cancer, Coronary Heart Disease, Chronic Obstructive Pulmonary Disease (COPD), Cerebrovascular Disease, Dementia, Diabetes, Epilepsy, Heart Failure, Liver Failure, Multiple Sclerosis, Parkinson's, and Renal Failure.
<b>Population prescribed drugs for anxiety/depression/psychosis</b>	Estimated number and percentage of population being prescribed drugs for anxiety, depression or psychosis.
<b>Potentially Preventable Admissions (PPA)</b>	Emergency admissions (non-elective) of patients of all ages for conditions based on 19 "ambulatory care sensitive conditions" from "The health of the people of NEW South Wales - Report of the Chief Medical Officer". These conditions result from medical problems that may be avoidable with the application of public health measures and/or timely and effective treatment usually delivered in the community by the primary care team. Please see complete list of ICD-10 codes included in Appendix 3.
<b>Psychiatric patient hospitalisations</b>	Patients discharged from psychiatric hospitals: 3-year rolling average number and directly age-sex standardised rate per 100,000 population. Data taken from SMR04. All rates have been standardised against the European standard population(ESP2013) and 2011-base population estimates. Patient is selected only once per year, based on their discharge date.



<b>Unscheduled bed days</b>	<p>Rate of unscheduled bed days of patients of all ages per 100,000 population, derived from data collected on discharges from non-obstetric and non-psychiatric hospitals (SMR01) in Scotland. Only patients treated as inpatients or day cases are included. Bed days for each month have been calculated based on the month in which the bed days were occupied. This differs from other analysis where bed days are reported by the month of discharge.</p>
<b>Unscheduled bed days (Mental Health specialty)</b>	<p>Rate of unscheduled bed days of patients of all ages per 100,000 population. Includes all occupied bed days within a continuous hospital stay following an emergency or urgent admission. Episodes beginning with a transfer have also been included as many of these episodes will have started as unplanned acute admission. Bed days for each month have been calculated based on the month in which the bed days were occupied. This differs from other analysis where bed days are reported by the month of discharge.</p>

## Appendix 2: Date of Indicator Data Extractions

Section	Indicator	Date of data extraction
Demographics	Population structure	2024-03-26
Demographics	Population projection	2024-03-26
Demographics	SIMD2016	2024-03-26
Demographics	SIMD2020	2024-03-26
Housing	Household estimates	2024-01-30
Housing	Household in each council tax band	2024-01-30
Services	GP practice locations	2024-01-24
Services	Care Home locations	2024-01-24
Services	A&E locations	2024-01-24
Services	Access deprivation	2022-10-20
General Health	Life expectancy males	2024-02-08
General Health	Life expectancy females	2024-02-08
General Health	Deaths ages 15-44 years	2024-02-08
General Health	Physical Long-Term Conditions	2024-02-22
General Health	Cancer registrations	2024-02-08
General Health	Early deaths from cancer	2024-02-08
General Health	Asthma patient hospitalisations	2024-02-08
General Health	Coronary Heart Disease patient hospitalisations	2024-02-08
General Health	Chronic Obstructive Pulmonary Disease patient hospitalisations	2024-02-08
General Health	Population with a prescription for anxiety, depression or psychosis	2024-02-08
Lifestyle & Risk Factors	Alcohol related hospital stays	2024-02-08
Lifestyle & Risk Factors	Alcohol related mortality	2024-02-08
Lifestyle & Risk Factors	Drug-related hospital admissions	2024-02-08
Lifestyle & Risk Factors	Bowel screening uptake	2024-02-08
Hospital & Community Care	Emergency admissions (acute)	2024-02-05
Hospital & Community Care	Unscheduled bed days (acute)	2024-02-05
Hospital & Community Care	A&E Attendances	2024-02-05

<b>Hospital &amp; Community Care</b>	Delayed discharges aged 65+	2024-02-05
<b>Hospital &amp; Community Care</b>	Fall admissions aged 65+	2024-02-12
<b>Hospital &amp; Community Care</b>	Emergency readmissions (28 day)	2024-02-12
<b>Hospital &amp; Community Care</b>	Potentially Preventable Admissions (PPAs)	2024-02-12
<b>Hospital Care (Mental Health Specialty)</b>	Psychiatric patient hospitalisations	2024-02-12
<b>Hospital Care (Mental Health Specialty)</b>	Unscheduled bed days	2024-02-05

### Appendix 3: Conditions included as Potentially Preventable Admissions (PPAs)

Condition	ICD10 codes included	Comments
Ear Nose And Throat	H66, J028, J029, J038, J039, J06, J321	NA
Dental	K02, K03, K04, K05, K06, K08	NA
Convulsions And Epilepsy	G40, G41, R56, O15	NA
Gangrene	R02	NA
Nutritional Deficiencies	E40, E41, E43, E550, E643, M833	NA
Dehydration And Gastroenteritis	E86, K522, K528, K529	NA
Pyelonephritis	N10, N11, N12	NA
Perforated Bleeding Ulcer	K250, K251, K252, K254, K255, K256, K260, K261, K262, K264, K265, K266, K270, K271, K272, K274, K275, K276, K280, K281, K282, K284, K285, K286	Excludes episodes with following main OPCS4 codes: S06, S57, S68, S70, W90, X11
Cellulitis	L03, L04, L080, L088, L089, L980	NA
Pelvic Inflammatory Disease	N70, N73	NA
Influenza And Pneumonia	J10, J11, J13, J181	NA
Other Vaccine Preventable	A35, A36, A370, A379, A80, B05, B06, B161, B169, B26	NA
Iron Deficiency	D501, D508, D509	NA
Asthma	J45, J46	NA
Diabetes Complications	E100, E101, E102, E103, E104, E105, E106, E107, E108, E110, E111, E112, E113, E114, E115, E116, E117, E118, E120, E121, E122, E123, E124, E125, E126, E127, E128, E130, E131, E132, E133, E134, E135, E136, E137, E138, E140, E141, E142, E143, E144, E145, E146, E147, E148	NA
Hypertension	I10, I119	Exclude episodes with following main OPCS4 codes: K01 - K50, K56, K60 - K61
Angina	I20	Exclude episodes with main OPCS4

		codes: K40, K45 K49, K60, K65, K66
COPD	J20, J41, J42, J43, J44	J20 only included if secondary diagnosis has one of J41 - J44
Congestive Heart Failure	I110, I50, J81	Exclude episodes with following main OPCS4 codes: K01 - K50, K56, K60 - K61