

Chapter 2: Population Health Indicators Reports

Population Health Indicators Reports have been developed for each of the six Health and Social Care Partnerships (HSCP) that comprise the Board's area. The aim of these reports was to assist the partnerships in the processes of strategic planning and population health needs assessment.

At the heart of the development of health indicators is an understanding of the physical, mental and social components of health. The indicators are defined epidemiologically in population terms and expressed in percentage terms or as a number of events per thousand population. They allow a comparison to be made between the value of a given indicator in a partnership and the value in a standard population.

The Health Indicator Reports for each HSCP are accessible here:

- [East Dunbartonshire Health and Social Care Partnership](#)
- [East Renfrewshire Health and Social Care Partnership](#)
- [Glasgow City Health and Social Care Partnership](#)
- [Inverclyde Health and Social Care Partnership](#)
- [Renfrewshire Health and Social Care Partnership](#)
- [West Dunbartonshire Health and Social Care Partnership](#)

The indicators were chosen by a group chaired by the Director of Public Health. The measures selected collectively reflect the importance of social models of health in which the importance of a wide range of social and economic determinants is recognised. The criteria for inclusion of each indicator were that it should represent an important issue in public health and that it should be possible to define it using routinely-collected data. The indicators were chosen to encompass a wide range of public health domains, including demographic composition, overall health, incidence and prevalence of disease, delivery of acute services, disability, economic factors, social capital, child and maternal health, adolescent health, mental health and risk factors for morbidity.

The development and use of health indicators is primarily a comparative exercise in which the values of indicators for each partnership are compared with those in a standard population. The standard population currently used for all indicators is that of NHSGGC although for some indicators, a Scottish standard is also available. The exact definition of each indicator is set out in an appendix in which the source of the data and the precise calculation is given.

As an example, teenage pregnancy is an important public health issue in adolescent girls. The rate in the standard NHSGGC population was about 37.9 cases per 1,000 population per year, a measure of the size of the public health problem associated with teenage pregnancy. The rate in a partnership might be higher, for example, 41.9 cases per 1,000 per year. This would indicate that the incidence of teenage pregnancy was greater than would have been expected in the partnership and provides a rationale for measures to reduce the rate as a strategic objective.

The publication of the health indicators for each partnership is intended to promote processes of discussion and development between the Board and the partnerships. The overall suite of health indicators will be kept under review and revised as required in response to comments and criticisms that may be received.

Overview of Population Health Indicators by HSCP

| No. | Indicator | Calculation | East Dun | East Ren | Glasgow City | Inverclyde | Renfrewshire | West Dun | NHSGGC | Scotland |
|-----|---|--|----------|------------------|--|------------|--------------|-------------------------|-----------|----------|
| 1 | Population of HSPC | Not applicable | 105,860 | 91500 (8.04%) | 596,550 | 79,860 | 173,900 | 89810 (7.9%) done | 1,137,930 | |
| 2 | Ethnicity | Crude rate Expressed percent population | 4.2% | 5.9% | 11.6% | 1.36% | 2.8% | 1.6% | 7.3% | |
| 3 | Proportion of single parent households | Crude rate Expressed percent population | 6% | 6.3% | 9.3% NE 10.9% NW 8.1% South 9% | 8.8% | 5.0% | 9.8% | 8.6% | 7.2% |
| 4 | Proportion of elderly people living alone | Number Rate expressed as percentage | 29.9% | 33.8% | 43.9% NE 43.2% NW 45.3% South 43.3% | 38.2% | 18.1% | 38.5% | 39.4% | |

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|-----|-------------------------------|---|----------|----------|--|------------|--------------|----------|--------|----------|
| 5 | Proficiency in English | Crude rate Expressed percent population | 0.6% | 0.7% | 2.5% | 0.7% | 0.9% | 0.7% | 1.7% | 1.3% |
| 6 | Informal care | Crude rate Expressed percent population Rate for HSCP and NHSGGC | 8.4% | 8.1% | 6.2% | 7.0% | 7.4% | 7.3% | 6.9% | 6.8% |
| 7 | Rating of local neighbourhood | Crude rate Expressed percent population | 76% | 71.5% | 66.7% NE 65.6% NW 62.8% South 70.1% | 58.6% | 66% | 58.9% | 66.7% | |
| 8 | Social isolation | Rate expressed as percentage | 8.7% | 9% | 8.6% NE 8.4% NW 7.9% South 9.4% | 8.1% | 8.2% | 6.6% | 8.4% | |

| No. | Indicator | Calculation | East Dun | East Ren | Glasgow City | Inverclyde | Renfrewshire | West Dun | NHSGGC | Scotland |
|-----|---|---|----------|----------|--|------------|--------------|----------|--------|----------|
| 9 | Self assessed value as community member | Rate expressed as percentage | 80% | 73.4% | 80% NE 82.1% NW 81.2% South 77.6% | 79.6% | 85.3% | 77.2% | 79.7% | |
| 10 | Educational achievement | Crude rate expressed percent population | 10.7% | 15.7% | 18.8% NE 19.2% NW 16.7% South 20.4% | 17.8% | 11.8% | 26.1% | 17.2% | |
| 11 | Unemployment | Crude rate expressed percent population | 4.1% | 4.3% | 7.7% NE 8.3% NW 7.5% South 7.6% | 6.0% | 6.0% | 7.2% | 6.7% | 5.6% |
| 12 | Fuel poverty | Rate expressed as percentage | 13.7% | 11.6% | 21.3 % NE 19.1% NW 24% South 20.5% | 17.4% | 20.1% | 19.1% | 19.2% | |

| No. | Indicator | Calculation | East Dun | East Ren | Glasgow City | Inverclyde | Renfrewshire | West Dun | NHSGGC | Scotland |
|-----|---|----------------------------------|--------------------------------------|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--------------------------------------|--------------------------------------|
| 13 | Standardised Mortality Ratio (SMR) for all causes | Standardised ratio as percentage | 71.2% | 78.9% | 112.8% NE 121.7% NW 108.5% South 109.3% | 96% | 95.6% 106.7% | 105.0% | 100% | |
| 14 | Life expectancy | Number of expected life years | Male 80.5 years Female 83.9 years | Male 79.7 years Female 83.0 years | Male 73.0 years Female 78.5 years | Male 74.7 years Female 80.7 years | Males 75.7 years Females 80.6 years | Male 74.2 years Female 79.1 years | Male 74.9 years Female 80.0 years | Male 76.9 years Female 81.0 years |
| 15 | Self-reported health status | Number Rate expressed percent | 4.1% | 4.7% | 9.3% NE 11.4% NW 8.5% South 8.4% | 9.4% | 6.3% | 4.4% | 7.7% | |

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|-----|-------------------------|--|----------|----------|---|------------|--------------|----------|--------|----------|
| 16 | Excess winter mortality | Excess Winter Mortality Index (Ratio %) Ratio of monthly mortality in winter months to that in non-winter | 110.8% | 111.3% | 112.7 % NE 120.1% NW 108.5% South 110.2% | 102.3% | 106.4% | 106.6% | 110.1% | |
| 17 | Lung cancer | Standardised ratio as percentage Indirect standardisation for age and sex | 68.1% | 61.9% | 126.3% NE 138.8% NW 127.3% South 115.2% | 87.1% (ns) | 85.6% (s) | 81.5% | 100% | |

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|-----|-------------------|--|----------|----------|--|-------------|--------------|----------|--------|----------|
| 18 | Colorectal cancer | Standardised ratio as percentage Indirect standardisation for age and sex | 91.2% | 81.1% | 111.3% NE 114.9% NW 104.8% South 113.6% | 117.3% (ns) | 95.0% (ns) | 93.8% | 100% | |
| 19 | Breast cancer | Standardised ratio as percentage Indirect standardisation for age and sex | 101.0% | 96.1% | 97.5% NE 114.4% NW 93.9% South 87.2% | 115.0% | 128.0% (s) | 86.8% | 100% | |

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|-----|-------------------------|--|----------|----------|--|------------|-------------------------------|----------|--------|----------|
| 20 | Ischaemic heart disease | Standardised Mortality Ratio (SMR) Indirect standardisation for age and sex ICD 10 codes: 20-125; in any position. | 62% | 82% | 112.8% NE 119.5% NW 100.3% South 117.9% | 90.0% | 99.5% (ns) 105.3% (ns) | 113.9% | 100% | |
| 21 | Stroke | Standardised Mortality Ratio (SMR) Indirect standardisation for age and sex ICD 10 codes: in any position. | 64.6% | 91.5% | 106% NE 102.2% NW 113.5% South 102.7% | 95.6% | 99.2% (ns) 108.2% (ns) | 132.7% | 100% | |

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|-----|----------------------|---|----------------|----------------|--|----------------|--------------|----------------|----------------|----------|
| 22 | Fractured neck femur | Crude rate per 1,000 ICD 10 codes: S720-S722. Code in any position in first episode of a spell | 5.8 per 1,000 | 6.8 per 1,000 | 7.8 per 1,000 NE 8.3 per 1,000 NW 7.8 per 1,000 South 7.5 per 1,000 | 7.6 per 1,000 | 92.6% (ns) | 7.6 per 1,000 | 7.2 per 1,000 | |
| 23 | Falls | Crude rate per 1,000 ICD 10 codes: W00-W19 in any position in first episode of a spell | 25.7 per 1,000 | 27.3 per 1,000 | 43.7 per 1,000 NE 52.7 per 1,000 NW 39.8 per 1,000 South 39.5 per 1,000 | 36.2 per 1,000 | 95.8% (ns) | 32.8 per 1,000 | 36.6 per 1,000 | |

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|-----|-----------------------------------|---|----------------|----------------|--|----------------------|---------------|----------------|----------------|----------|
| 24 | Visual impairment | Prevalence expressed per cent | 7.3% | 8.0% | 10.6% | 9.5% | 9.2% | 9.7% | 9.6% | 9.0% |
| 25 | Auditory impairment | Prevalence expressed per cent | 23.5% | 24.1% | 26.9% | 29.1% | 26.1% | 27.7% | 26.3% | 25.4% |
| 26 | Self-reported physical disability | Prevalence expressed per cent | 17% | 17.2% | 25.9% | 21.0% | 21.2% | 24.1% | 22.7% | 20.6% |
| 27 | Infant mortality | Rate expressed per 1,000 live births in same period | 1.08 per 1,000 | 4.55 per 1,000 | 4.0 per 1,000 NE 4.7 per 1,000 NW 1.8 per 1,000 South 5.1 per 1,000 | No mortality in 2013 | 2.2 per 1,000 | 2.04 per 1,000 | 3.18 per 1,000 | |

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|-----|-----------------------------------|-----------------------------------|--------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 28 | Prevalence Low Birth Weight | Crude rate (expressed percent) | 4.2% | 5.1% | 5.9% NE 5.7% NW 5.5% South 6.4% | 7.2% | 6.8% | 5.3% | 5.9% | |
| 29 | Prevalence of maternal smoking | Prevalence rate expressed percent | 6.6% | 6.3% | 13.6% NE 17.1% NW 12.2% South 12.2% | 18.6% | 13.9% | 19.3% | 13.3% | |
| 30 | Breast feeding rates at 6-8 weeks | Prevalence rate expressed percent | 35.4% | 36.9% | 24.9% NE 18.5% NW 29.9% South 25.5% | 13.2% | 19.1% | 16% | 24.5% | |
| 31 | Dental health | Prevalence rate expressed percent | 77.0% (P7) 78.9% (P1) | 80.1% (P7) 80.0% (P1) | 60.6% (P7) 56.5% (P1) | 66.4% (P7) 59.7% (P1) | 75.4% (P7) 62.1% (P1) | 68.4% (P7) 58.6% (P1) | 67.8% (P7) 63.2% (P1) | 72.8% (P7) 67.0% (P1) |

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|-----|-----------------------------|---|---------------|---------------|---|---------------|---------------|----------------|---------------|----------|
| 32 | Unintentional injury | Rates expressed per 1,000 in age-groups: 0-14 years. Codes: Cause of injury codes V01-X59 Year 2013-2014 | 7.7 per 1,000 | 7.2 per 1,000 | 10.2 per 1,000 NE 11.3 per 1,000 NW 10.4 per 1,000 South 9.2 per 1,000 | 8.5 per 1,000 | 8.9 per 1,000 | 12.0 per 1,000 | 9.5 per 1,000 | |
| 33 | Maternal obesity at booking | Prevalence rate expressed percent | 19% | 17.4% | 21.7% NE 25.0% NW 18.9% South 21.5% | 26.5% | 25% | 25.3% | 22.2% | |
| 34 | Childhood obesity | Prevalence rate expressed percent | 3% | 1.5%. | 6.8% | 7.3% | 5.4% | 5.8% | 5.8% | |

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|-----|---------------------------------------|--|---------------------------|----------------|---|----------------|---------------------------------------|----------------|---------------------------|----------|
| 35 | Use of recreational drugs | Rate expressed as percentage | 4.5% | 6.9% | 6.4% | 9.1% | 4.5% | 5.8% | 6.1% | 5.8% |
| 36 | Educational attainment | Rate expressed as percentage | 1.6% | 0.6% | 2.6% | 1.5% | 2.1% | 0.9% | 1.6% | 1.5% |
| 37 | Aspirations for future | Rate expressed as percentage | 57.4% | 60.4% | 30.8% | 38.0% | 39.8% | 34% | 40% | 36.3% |
| 38 | Participation in antisocial behaviour | Rate expressed as percentage | Information not available | Not available | 31% | 14% | 31.0% | Not available | None available for NHSGGC | |
| 39 | Teenage pregnancy rate | Crude rates per 1,000 population in year Oct 2012-Sep 2013 in HSCP and NHSGGC. | 20.3 per 1,000 | 20.6 per 1,000 | 41.9 per 1,000 NE 40.4% NW 39.3% South 45.7% | 37.6 per 1,000 | 39.2 / 1,000 (year Oct 2012-Sep 2013) | 50.4 per 1,000 | 37.9 per 1,000 | |

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|-----|---|---|----------|----------|--|------------|--------------|----------|--------|----------|
| 40 | Smoking | Crude prevalence rate expressed as percentage | 14.8% | 17.6% | 28% NE 32.4% NW 24.9% South 27.4% | 24.3% | 18.6% | 34.4% | 24.9% | |
| 41 | Cervical screening uptake | Crude rate expressed percent | 80.6% | 80.3% | 68.9% NE 71.5% NW 63.1% South 73.2% | 75.6% | 77.9% | 75.7% | 73% | |
| 42 | Prevalence of fruit and vegetable consumption | Crude prevalence rate expressed as percentage | 51.4% | 44.2% | 37.4% NE 29.4% NW 40.6% South 41% | 30.7% | 40.9% | 39.4% | 39.5% | |
| 43 | Prevalence of hazardous alcohol consumption | Crude prevalence rate expressed as percentage | 12.6% | 19.2% | 22.2% NE 18% NW 26.9% South 20.5% | 16.5% | 13.2% | 9.4% | 18.9% | |

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|-----|-------------------|---|----------|----------|--|------------|--------------|----------|--------|----------|
| 44 | Physical activity | Crude prevalence rate expressed as percentage | 42% | 41.3% | 47.7% NE 55.7% NW 45.6% South 43.1% | 43.1% | 52.8% | 32.1% | 45.9% | |
| 45 | Passive smoking | Crude prevalence rate expressed as percentage | 25.3% | 28.2% | 39% NE 41.5% NW 40% South 36.1% | 33.3% | 25.7% | 43.1% | 34.8% | |
| 46 | Obesity | Crude prevalence rate expressed as percentage | 15% | 14.9% | 17.9% NE 16.7% NW 16% South 20.6% | 17.2% | 16.6% | 8.7% | 16.4% | |

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|-----|----------------------------|---|---------------|---------------|---|------------------|----------------|----------------|----------------|----------|
| 47 | Alcohol-related admissions | Crude emergency admission rate expressed per 1,000 ICD 10 codes: F10; K70; K292; E244; G312; G621; G721; I426. Code in any position | 4.7 per 1,000 | 4.5 per 1,000 | 12.1 per 1,000 NE 14.9 per 1,000 NW 9.1 per 1,000 South 12.7 per 1,000 | 10.8 per 100,000 | 10.8 per 1,000 | 10.0 per 1,000 | 10.4 per 1,000 | |
| 48 | Depression 1 | Crude prevalence rate expressed percent | 22.5% | 10.2% | 16.6% NE 23.8% NW 15.6% South 12.0% | 17.3% | 4.6% | 19.4% | 14.9% | |

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|-----|--------------|---|----------------|----------------|--|----------------|---------------|----------------|----------------|----------|
| 49 | Depression 2 | Crude admission rate expressed per 1,000 ICD 10 codes: F204; F32; F33; F341; F313; F314; F315. Code in any position | 0.44 per 1,000 | 0.39 per 1,000 | 0.47 per 1,000 NE 0.35 per 1,000 NW 0.66 per 1,000 South 0.40 per 1,000 | 0.83 per 1,000 | 0.8 per 1,000 | 0.78 per 1,000 | 0.56 per 1,000 | |

| No. | Indicator | Calculation | East Dun | East Ren | Glasgow City | Inverclyde | Renfrewshire | West Dun | NHSGGC | Scotland |
|-----|--------------|---|------------------|------------------|--|------------------|--|------------------|------------------|----------|
| 50 | Suicide rate | Rate expressed per 100,000 in population aged 16-29 years ICD 10 codes: X60-X84; Code in position 2-6. | 18.4 per 100,000 | 22 per 100,000 | 34.1 per 100,000 NE 28.4 per 100,000 NW 36.0 per 100,000 South 37.1 per 100,000 | 65.9 per 100,000 | 39.9 per 100,000 Not significant. | 37 per 100,000 | 35.1 per 100,000 | |
| 51 | Suicide rate | Rate expressed per 100,000 in population aged 30-64 years ICD 10 codes: X60-X84; Code in position 2-6. | 40.3 per 100,000 | 44.7 per 100,000 | 58.8 per 100,000 NE 61.3 per 100,000 NW 74.3 per 100,000 South 44.0 per 100,000 | 62.5 per 100,000 | 16.8 per 100,000 | 53.3 per 100,000 | 54.4 per 100,000 | |

| No. | Indicator | Calculation | East Dun | East Ren | Glasgow City | Inverclyde | Renfrewshire | West Dun | NHSGGC | Scotland |
|-----|-----------------------------|---|----------|----------|--|------------|--------------|----------|--------|----------|
| 52 | Mental health and wellbeing | Crude prevalence rate expressed percent | 90.1% | 90.9% | 83.5% NE 82.4% NW 83.2% South 84.8% | 86.5% | 89.6% | 89.7% | 86.3% | |
| 53 | Access to primary care | Rate expressed percent | 17.4% | 10.4% | 16.4% NE 25.2% NW 12.8% South 12.6% | 29.6% | 15.1% | 29.5% | 19.0% | |
| 54 | Access to dental care | Rate expressed per 1,000 | 6.3% | 4.2% | 8.6% NE 10.5% NW 9.5% South 6.6% | 9.7% | 6.9% | 4.9% | 6.9% | |

| No. | Indicator | Calculation | East Dun | East Ren | Glasgow City | Inverclyde | Renfrewshire | West Dun | NHSGGC | Scotland |
|-----|--------------------------|--|----------|--------------|--|------------|--------------|--------------|--------|----------|
| 55 | Primary hip arthroplasty | <p>Standardised ratio (for age, sex and deprivation)</p> <p>OPCS codes:</p> <p>W371; W378; W379; W381; W388; W389; W391; W398; W399; W461; W468; W469; W471; W478; W479; W481; W488; W489</p> <p>Operation code in any position. Exclude records coded for fractured neck of femur:</p> <p>ICD10 Codes: S720; S721; S722</p> | 109% | 101.1% ns | <p>98.2%</p> <p>NE 92.9% NW 107.6% South 94.9%</p> | 100.7% | 98% | 100.5% ns | 100% | - |

| No. | Indicator | Calculation | East Dun | East Ren | Glasgow City | Inverclyde | Renfrewshire | West Dun | NHSGGC | Scotland |
|-----|-----------------------------------|--|----------|--------------|--|------------|--------------|--------------|--------|----------|
| 56 | Primary knee arthroplasty | Standardised ratio (for age, sex and quintile) OPCS codes: W401; W408; W409; W411; W418; W419; W421; W28; W429 | 107.2% | 91.2% ns | 94.9% NE 94.9% NW 101.7% South 89.6% | 117.2% | 96.9% | 115.7% ns | 100% | - |
| 57 | Coronary artery revascularisation | Standardised ratio (for age, sex and quintile) OPCS codes: K40; K41; K42; K43; K44; K45; K46; K49; K75; K501 | 97.7% | 122.5% ns | 95.6% NE 110.2% NW 90.7% South 87.4% | 103% | 97.2% | 107.6% ns | 100% | |

| No. | Indicator | Calculation | East Dun | East Ren | Glasgow City | Inverclyde | Renfrewshire | West Dun | NHSGGC | Scotland |
|-----|------------------|--|----------|------------|--|------------|--------------|------------|--------|----------|
| 58 | Cataract surgery | Standardised ratio (for age, sex and deprivation) OPCS codes: C71-C77. | 97.6% | 109.2% (s) | 96.3% sig NE 102.9% NW 88.7% South 96.8% | 96.8% | 103.5% | 111.2% (s) | 100% | |

Acknowledgements

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|---------------|---|--|
| Stan Murray | Consultant in Public Health Medicine | Public Health Directorate |
| Khalid Bashir | Business Intelligence Manager(Corporate) | Health Information and Technology Directorate |
| Allan Boyd | Senior Analyst (Public Health) | Health Information and Technology Directorate |
| Ann Boyle | Information Manager (Performance and Corporate) | Health Information and Technology Directorate |
| Paul Burton | Information Manager | Health Information and Technology Directorate |
| John Gomez | Information Manager (Planning) | Health Information and Technology Directorate |
| Mike Grimmer | Senior Information Analyst | Health Information and Technology Directorate |