

Appendix table 1. National Health Index: Data Contents and Data Sources of the Morbidity Index Indicators

Table 1a. Cancer, Sotkanet: Cancer index (ind. 5643 ja 5644)

Data content	Data source	Quality and coverage
Incidence of new cancer cases diagnosed during the year under review (excluding skin cancers other than melanoma), ICD-10 codes C00–96, D06, D09.0–1, D30, D32–33, D41–43, D45–D47, D76 and N87.2 in the entire population.	<ul style="list-style-type: none"> Cancer Registry (THL) Population structure (Statistics Finland) 	<p>The Cancer Registry is a population-based and national register. Quality description</p> <p>Skin cancers other than melanoma were excluded because their burden on public healthcare is mainly low. The removal of a skin lesion is both diagnostic and therapeutic. Furthermore, the same persons have recurring skin cancers, and no diagnostic confirmation is always received for them. This means that the coverage of the registry in terms of skin cancers other than melanoma is likely to be an underestimation.</p> <p>Restrictions:</p> <ul style="list-style-type: none"> The index does not consider the recurrence of cancer or the differences between the treatability of cancers and cancer mortality related to different cancers. A cancer index higher than average may indicate high cancer morbidity and/or the fact that the area has succeeded in early diagnosing of cancer.

Table 1b. Coronary disease, Sotkanet: Coronary disease index (ind. 5645 and 5646)

Data content	Data source	Quality and coverage
Incidence of acute coronary events that have led to hospitalisation (ICD-10 codes I20.0, I21–I22) or fatal events (ICD-10 codes I20–I25, I46, R96, R98) in the age group 35–79 years during the year of the review.	<ul style="list-style-type: none"> Care Registers for Social Welfare and Health Care (THL) Causes of death (Statistics Finland) Population structure (Statistics Finland) 	<p>Statistics on causes of death, quality description</p> <p>Statistics on specialised healthcare, quality description (in Finnish)</p>

Table 1c. Cerebrovascular diseases, Sotkanet: Cerebrovascular disease index, (ind. 5647 and 5648)

Data content	Data source	Quality and coverage
Incidence of first attacks of cerebrovascular disease that have led to hospitalisation or fatal attacks (ICD-10 codes I60–I64 except for I63.6) in the age group 35–79 years during the year of the review.	<ul style="list-style-type: none"> Care Registers for Social Welfare and Health Care (THL) Causes of death (Statistics Finland) Population structure (Statistics Finland) 	<p>Statistics on causes of death, quality description</p> <p>Statistics on specialised healthcare, quality description (in Finnish)</p>

Table 1d. Musculoskeletal disorders, Sotkanet: Musculoskeletal disorder index (ind. 5649 and 5650)

Data content	Data source	Quality and coverage
<p>Of recipients of disability pension (in age group 16–64), pensions based on ICD-10 diagnosis code M00–M99 are considered in the index. Of entitlements to special reimbursement for medicines, codes 202, 313 and 281 are considered, i.e. those persons in the whole population who have been entitled to special reimbursement for antirheumatic medicines during the year of the review.</p>	<ul style="list-style-type: none"> • Statistics on pensions (Finnish Centre for Pensions and Kela): Recipients of disability pension • Statistics on reimbursement entitlements in respect of medicines (Kela) • Population structure (Statistics Finland) 	<p>The index covers people who received disability pension either from the earnings-related or national pension system or from both systems.</p> <p>Statistics on Pensioners in Finland, quality description Statistics on reimbursement entitlements in respect of medicines, quality description</p> <p>Restrictions:</p> <ul style="list-style-type: none"> • The index describes the prevalence of long-term musculoskeletal disorders with the heaviest disease burden only regarding disability pensions and entitlements to special reimbursement for antirheumatic medicines. • The data in the Care Registers did not provide sufficiently comprehensive information on musculoskeletal disorders, a significant part of which are excluded from the examination of this index.

Table 1e. Mental health disorders, Sotkanet: Mental health index (ind. 5651 and 5652)

Data content	Data source	Quality and coverage
<p>Suicides: Persons who required medical treatment because of self-harm (ICD-10 codes X60–X84) or who committed suicide during the year of the review in the population aged 13 years and over.</p>	<ul style="list-style-type: none"> • Care Registers for Social Welfare and Health Care (THL) • Causes of death (Statistics Finland) • Population structure (Statistics Finland) 	<p>Statistics on causes of death, quality description Statistics on specialised healthcare, quality description (in Finnish)</p> <p>Restrictions:</p> <ul style="list-style-type: none"> • The data on attempted suicides in the Care Register should be treated with caution as regional differences may result from different practices in recording information on persons treated because of self-harm.
<p>Psychoses: Holders of entitlements to special reimbursement for medicines (Kela code 112) granted because of psychosis (severe psychoses and other serious mental health disorders) in the entire population in the year of the review.</p>	<ul style="list-style-type: none"> • Statistics on reimbursement entitlements in respect of medicines (Kela) • Population structure (Statistics Finland) 	<p>Statistics on reimbursement entitlements in respect of medicines, quality description</p>
<p>Disability pensions: Persons who received disability pension from the earnings-related or national pension system because of mental health disorders and behavioural disorders (ICD-10 codes F03–F99, excl. F10 and F70–F79) in age group 16–64 years in the year of the review.</p>	<ul style="list-style-type: none"> • Statistics on pensions (Finnish Centre for Pensions and Kela): Recipients of disability pension • Population structure (Statistics Finland) 	<p>Disability pensions include pensions granted until further notice and fixed-term rehabilitation subsidies.</p> <p>Statistics on Pensioners in Finland, quality description</p>

Table 1f. Memory disorders, Sotkanet: Memory disorders index (ind. 5655 and 5656)

Data content	Data source	Quality and coverage
<p>The prevalence of memory disorders in the population aged 30 years and over in the year of the review. The index considers the following diagnosis codes from the ICD-10 classification: F00–F03, F05.1, F10.73, F11.73, F14.73, F16.73, F18.73 and F19.73, G30.0–G30.9, G31.0–G31.8 and G91.2. Regarding doctor’s appointments in primary healthcare, ICPC-2 reason for visit code P70 is also considered. Of data on medicine purchases, drug code N06D in the ATC classification is considered.</p>	<ul style="list-style-type: none"> • Care Registers for Social Welfare and Health Care (THL) • Dispensed medicines reimbursable under the National Health Insurance scheme (Kela) • Population structure (Statistics Finland) 	<p>Statistics on specialised healthcare, quality descriptions (in Finnish)</p> <p>Statistics on primary healthcare, quality descriptions (in Finnish)</p> <p>Dispensed medicines reimbursable under the National Health Insurance scheme, quality description</p>

Table 1g. Respiratory diseases, Sotkanet: Respiratory diseases index (ind. 5657 and 5658)

Data content	Data source	Quality and coverage
<p>Prevalence of asthma, chronic obstructive pulmonary disease and sleep apnea in the population aged 20 years or over in the year of the review. ICD-10 diagnosis codes J44–J45 and G47.3 are considered in the index. Of doctor’s appointments in primary healthcare, ICPC-2 reason for visit codes R95 and R96 are also considered. Of holders of entitlements to special reimbursement for medicines, entitlement codes 203, 251, 297, 344, 395 and 348 are taken into account.</p>	<ul style="list-style-type: none"> • Care Registers for Social Welfare and Health Care (THL) • Statistics on reimbursement entitlements in respect of medicines (Kela) • Population structure (Statistics Finland) 	<p>Statistics on specialised healthcare, quality descriptions (in Finnish)</p> <p>Statistics on primary healthcare, quality descriptions (in Finnish)</p> <p>Statistics on reimbursement entitlements in respect of medicines, quality description</p>

Table 1h. Diabetes, Sotkanet: Diabetesindex (ind. 5661 and 5662)

Data content	Data source	Quality and coverage
<p>Prevalence of diabetes in the entire population in the year under review. ICD-10 diagnosis codes E10–E14 are considered in the index. Of outpatient visits to primary healthcare, ICPC-2 reason for visit codes T89 and T90 are also considered. Of medicine purchase data, ACT drug code A10 is considered, and of entitlements to special reimbursement for medicines, entitlement codes 103, 215, 250, 285, 295, 346, 3011 and 3022.</p>	<ul style="list-style-type: none"> • Sosiaali- ja terveydenhuollon hoitoilmoitusrekisterit (THL) • Care Registers for Social Welfare and Health Care (THL) • Dispensed medicines reimbursable under the National Health Insurance scheme (Kela) • Statistics on reimbursement entitlements in respect of medicines (Kela) • Population structure (Statistics Finland) 	<p>Statistics on specialised healthcare, quality descriptions (in Finnish)</p> <p>Statistics on primary healthcare, quality descriptions (in Finnish)</p> <p>Dispensed medicines reimbursable under the National Health Insurance scheme, quality description</p> <p>Statistics on reimbursement entitlements in respect of medicines, quality description</p>

Table 1i. Alcohol-related diseases, Sotkanet: Alcohol morbidity index (ind. 5659 and 5660)

Data content	Data source	Quality and coverage
<p>People who received treatment because of a disease or condition related to excessive use of alcohol in the entire population during the year under review. The following ICD-10 diagnosis codes are considered in the index: F10, E24.4, G40.51, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.00, K86.01, K86.08, Q86.0, Y91, T51 and X45. Of outpatient visits to primary healthcare, ICPC-2 reason for visit codes P15 and P16 are considered, and reason for seeking treatment code 71 from the Care Register for Social Welfare. Of data on medicine purchases, ATC drug codes N07BB01, N07BB04 and N07BB05 are considered.</p>	<ul style="list-style-type: none"> • Care Registers for Social Welfare and Health Care (THL) • Dispensed medicines reimbursable under the National Health Insurance scheme (Kela) • Population structure (Statistics Finland) 	<p>Statistics on specialised healthcare, quality descriptions (in Finnish)</p> <p>Statistics on primary healthcare, quality descriptions (in Finnish)</p> <p>Dispensed medicines reimbursable under the National Health Insurance scheme, quality description</p>

Table 1j. Accidents, Sotkanet: Accident index (ind. 5653 and 5654)

Data content	Data source	Quality and coverage
Persons who received medical care because of accidents or people with accidents as cause of death in the entire population during the year under review. The following ICD-10 diagnosis codes are considered in the index: S00–T98.	<ul style="list-style-type: none">• Care Registers for Social Welfare and Health Care (THL)• Causes of death (Statistics Finland)• Population structure (Statistics Finland)	Statistics on specialised medical care, quality descriptions (in Finnish) Statistics on causes of death, quality description

The calculation of the population proportion and the age-standardisation of the indices of morbidity are based on the mean population obtained from Statistics Finland's statistics on population structure. The population structure of the entire country determined using the last year of the National Health Index statistics has been used in the age-standardisation. Age-standardisation has been carried out with a dataset classified using 5-year age groups.

[Statistics on population structure, quality description](#)