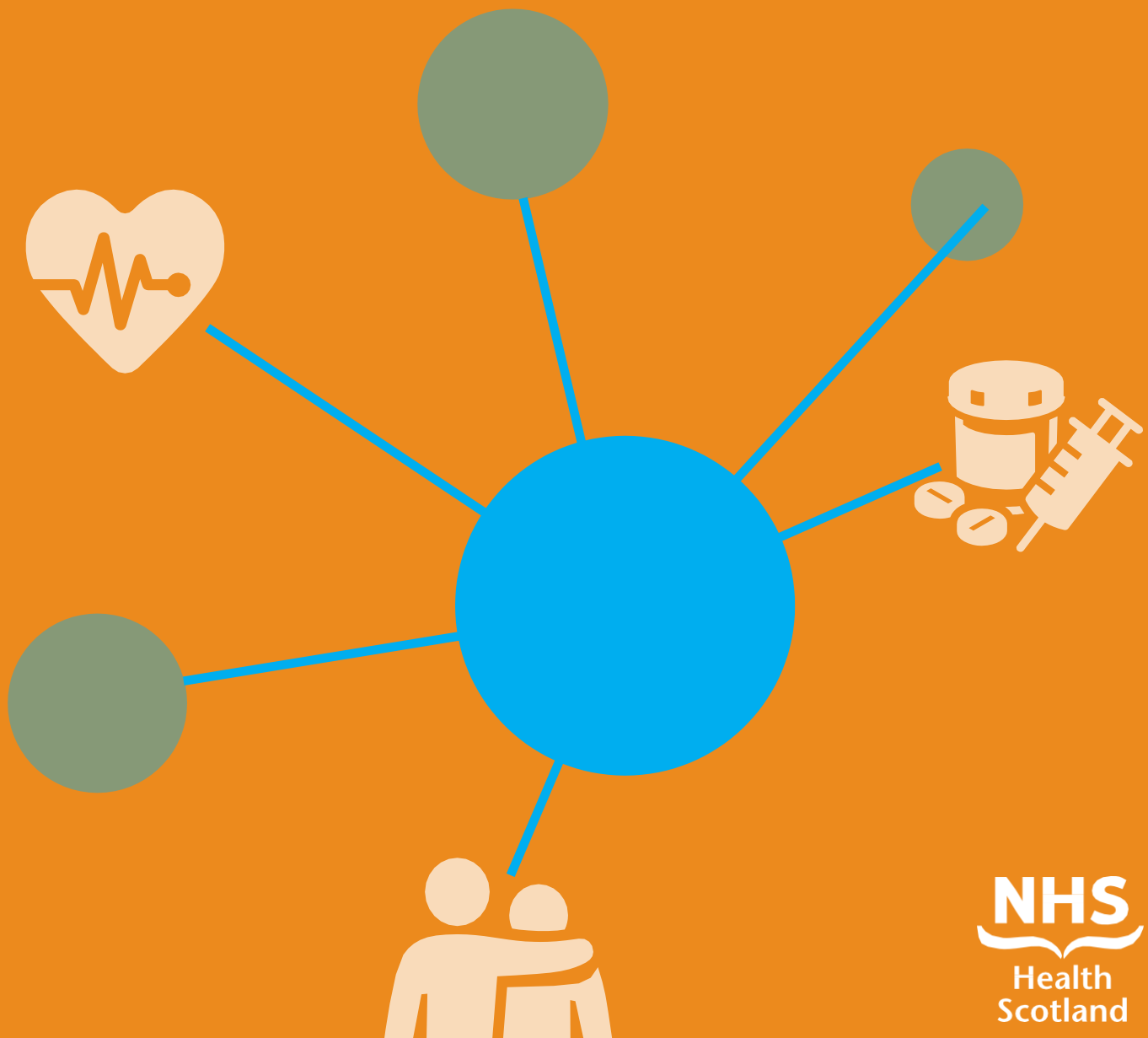



The Scottish Burden of Disease Study, 2016

Congenital anomalies technical overview



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Published by NHS Health Scotland

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Background

The Scottish Burden of Disease (SBoD) study team have published comprehensive estimates of the burden of disease and injury in Scotland for 2016 [1]. The purpose of this technical overview is to provide background information on the data and methodology used, noting any caveats associated with estimating the burden of congenital anomalies in SBoD. The classification of congenital anomalies covers the following causes: congenital heart defects, neural tube defects, cleft lip and cleft palate, congenital anomalies of the urogenital system, congenital anomalies of the gastrointestinal tract, musculoskeletal congenital anomalies, Down Syndrome, Turner Syndrome, Klinefelter Syndrome, and other chromosomal abnormalities, genetic syndromes and micro-deletions [2].

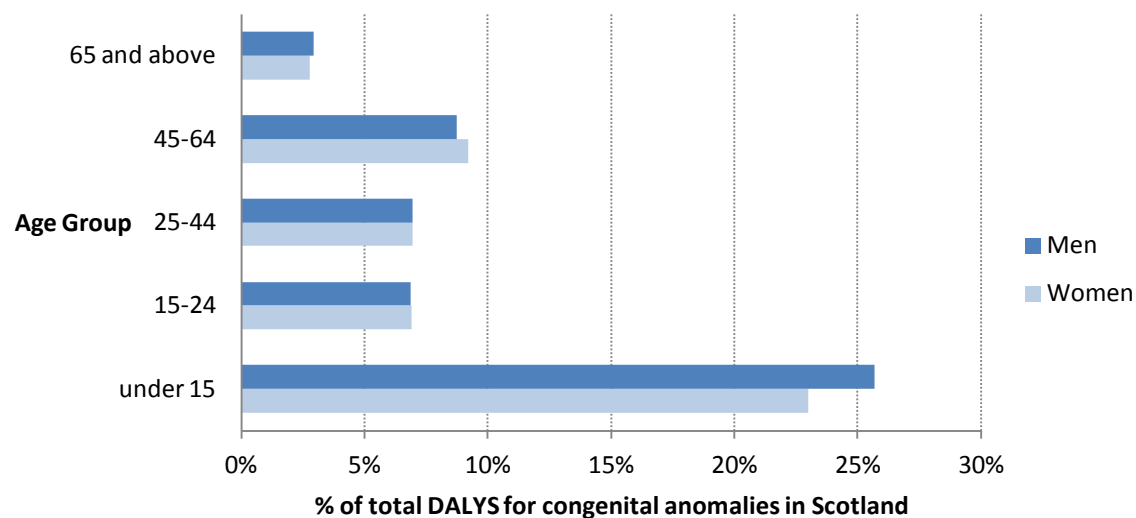
Burden of disease studies aim to estimate the difference between ideal and actual health in a country or region at a specific point in time. Individuals can suffer non-fatal health loss due to suffering disability attributable to a disease or injury, or suffer fatal health loss which is early death due to a disease or injury. To quantify the total burden, non-fatal and fatal health loss are combined to produce a single metric called the Disability-Adjusted Life Year (DALY).

In SBoD 2016, all data are presented as three year averages for period 2014-2016. A three year period is used to smooth out most of the effect if the mortality or morbidity of a single year happens to be unusual. Further information about the SBoD study, including a more thorough explanation of the methodology used, overview reports, detailed results and other specific disease briefings, can be found on the website of the Scottish Public Health Observatory (ScotPHO) [1].

Estimated burden due to congenital anomalies

Congenital anomalies were the 24th most common cause of disease burden in Scotland in 2016, resulting in a total of approximately 15,000 DALYs. Of this total burden, 56% was due to premature mortality attributed to congenital anomalies and 44% was attributed to the health loss suffered due to living with congenital anomalies.

Figure 1 Percentage of total DALYs by gender and age group for congenital anomalies

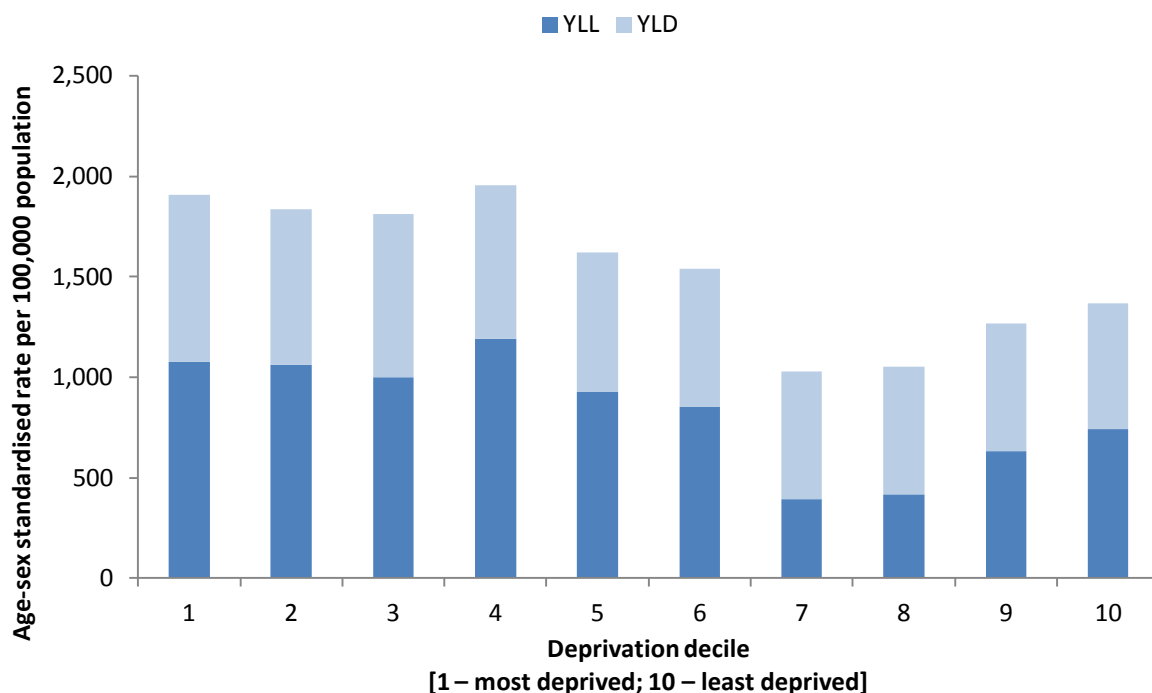


Women contributed a slightly higher proportion of the total congenital anomalies burden (51%) than men (49%). Overall those aged under 15 accounted for nearly half (49%) of the total congenital anomalies burden: men in this age group contributed a slightly higher proportion (25%) to the total burden than women (23%). Note that the burden we are describing above is the absolute burden and has not been adjusted for the age/gender case-mix.

The age standardised DALY rates for congenital anomalies, by deprivation¹ decile, are shown in Figure 2. Individuals in the most deprived decile experienced a burden that was 1.4 times greater than individuals in the least deprived decile.

¹ We used the Scottish Index of Multiple Deprivation (SIMD 2016) to analyse patterns of inequality in the burden of disease across Scotland. SIMD2016 is categorised into deciles 1 (most deprived) to 10 (least deprived), SIMD2016 calculates deprived areas, not deprived individuals.

Figure 2 Congenital anomalies DALY (rates per 100,000²) by deprivation decile



How did we produce these estimates?

DALYs attributed to a disease, or injury, are calculated by combining estimates from two individual metrics: Years of Life Lost (YLL) due to premature mortality and Years Lived with Disability (YLD).

Years of Life Lost (YLL) due to congenital anomalies

YLL measures the years of life lost due to premature deaths i.e. the fatal component of burden of disease. YLLs are calculated by subtracting the age at each congenital anomalies death from the expected remaining life expectancy for a person at that age.

Estimating the number of deaths

For the period 2014-2016, we estimated an average of 116 deaths per year caused by congenital anomalies. These deaths were identified from the underlying cause of death on the National Records of Scotland (NRS) register of deaths [3]. To classify deaths the GBD 2016 cause list was used, which has been created using the International Statistical Classification of Diseases and Related Health Problems (ICD-10) [4, 5]. The NRS register of deaths has a Community Health Index (CHI) number attached to each death, which allows for demographic data such as gender, geographical area of residence and age at death to be established for each individual.

² Where the data were age-standardised, this was done directly using the 2013 European Standard Population to account for differences in age structure between SIMD deciles."

Included in the total congenital anomalies mortality count are deaths that have come from what are termed ill-defined causes of death in burden of disease studies. These ill-defined deaths are causes of death that have been coded with ICD-10 codes in vital registers but for the purposes of burden of disease studies, are not regarded as sufficiently specific causes of death. These ill-defined deaths are therefore redistributed amongst specific causes of death across the burden of disease cause list based on the redistribution of deaths method used in the GBD study [3]. For congenital anomalies, approximately 10% of the death count comes from ill-defined deaths. For this reason, the number of deaths due to congenital anomalies which have been reported are different from that of officially reported sources. Further explanation of this method is available in the Invited chapter of The Registrar General's Annual Review of Demographic Trends [6].

Life expectancy and YLL

Each single death contributes to the total YLL through calculating the difference between the age at death and the life expectancy at that age. Life expectancy was defined using the 2013 gender-specific National Life Tables for Scotland [7]. There were approximately 8,300 YLL due to congenital anomalies in Scotland in 2016. Dividing the total YLL for congenital anomalies by the total mortality count indicates that, on average, individuals who die due to congenital anomalies die 71 years younger than would be otherwise expected on the basis of the life expectancy of the general population.

Years Lived with Disability (YLD) due to congenital anomalies

Years lived with disability (YLD) are estimated using:

- disease and injury prevalence estimates
- levels of severity
- disability weights

Our sources of information for these three components were as follows:

Estimating the number of individuals suffering disability

The burden of health loss from congenital anomalies in SBoD is based on the Global Burden of Disease Study specifications and is comprised of the following conditions: neural tube defects, ventricular septal defect and atrial septal defect, single ventricle and single ventricle pathway heart defects, severe congenital heart anomalies (excluding single ventricle heart defects with heart failure), critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus, congenital heart anomalies with heart failure, orofacial clefts, Turner syndrome, Down's syndrome, Klinefelter syndrome, other chromosomal abnormalities, congenital musculoskeletal and limb anomalies, urogenital congenital anomalies, digestive congenital anomalies and other congenital cardiovascular anomalies [8].

To estimate the prevalence of congenital anomalies in 2016, we used secondary care data. We linked the multiple datasets that make up the Scottish Morbidity Records (SMRs), including outpatient's appointment, into a single dataset using the Community Health Index (CHI) number. SMRs have a CHI number attached to the hospital episode of care, which allows for the identification of records for an individual. The CHI number attached to each record has allowed us to source records from the National Records of Scotland (NRS) register of deaths, to exclude individuals that have died from estimates following their date of death. Additionally, SMRs contain structured data in the form of International Statistical Classification of Disease (ICD-10) [5] codes relating to diagnoses made on discharge from a secondary care setting. There are up to six individual ICD-10 codes that can be recorded, where the primary diagnosis relates to the main reason for the episode of care, and the other secondary diagnoses refer to co-morbidities that may affect care during that episode of care. Our estimates make use of all available codes. We used the list of ICD-10 codes reported by the GBD 2016 study for congenital anomalies [2].

The SMR01 dataset has a CHI number attached to the hospital episode of care, which allows for the identification of records for an individual. This CHI number has been linked to records from the NRS register of deaths, to exclude individuals that have died from prevalence estimates that relate to a period following their date of death [3].

The number of individuals that had a diagnosis of a congenital anomaly between 1 January 1996 to 31 December 2016, and who were still alive at the end of 2016, were used to estimate the number of prevalent cases in 2016. This period was used because we set 20 years as the standard follow-up period for life-long diseases.

Using this method of identifying prevalent cases of congenital anomalies, we estimated that there were approximately 79,500 in the Scottish population living with disability due to congenital anomalies in 2016

Severity distribution and disability weights

The levels of severity and disability due to congenital anomalies in Scotland were based on the specifications of the GBD 2016 study [8]. This allowed us to disaggregate the prevalent cases into levels of severity and the associated disability at each level of severity. The disability weights were developed by the GBD study through surveys of the general public and take into account the consequences of each disease, condition and injury [9]. The severity distributions and disability weights for congenital anomalies are outlined in the Appendix.

These severity distributions and disability weights were applied to the estimated number of people living with congenital anomalies (n=79,500), resulting in a total of approximately 6,600 YLD due to congenital anomalies in Scotland in 2016.

Data quality

In order to provide a measure of the degree of accuracy³ and relevance⁴ of the estimated disease DALYs to users, a measure of data quality has been developed for the SBoD study. This measure assigns a RAG (Red; Amber; Green) status to each disease or injury indicative of the accuracy and relevance of the estimates. Interpretation of the RAG status can be defined as follows:

Highly accurate and relevant

Estimates have been derived using relevant and robust data sources with only a small degree of adjustments performed to the input data.

Moderately accurate and relevant

Estimates have been derived using reasonably relevant and robust data sources with only a moderate degree of adjustments performed to the input data.

Uncertainties over accuracy and relevance

Estimates have been derived using less comprehensive or relevant data sources with a high degree of adjustments performed to the input data.


³ How precise, unbiased or certain the estimate is.

⁴ Do we measure the thing we want to measure?

The data quality has been assessed using three main criteria:

- Relevance and accuracy of the data source used to measuring the population of interest
- Likelihood that the implemented disease model captured the overall burden of disease or injury
- The relative contribution of ill-defined deaths to YLL, and YLL to DALY.

These criteria are subjectively assessed and each criterion is scored on a scale of 1 to 5. Further details on these data quality measures are available on the ScotPHO website [1].

Based on these criteria, the estimates of burden of congenital anomalies in Scotland are  **moderately accurate and relevant.**

What next to improve estimates for congenital anomalies?

Future work on the SBoD study will attempt to refine the estimates of prevalence. This work will include reviewing the coding and recording of congenital anomalies in alternative national datasets and exploring local area datasets for information.

These improvements are partly dependant on exploring other data sources and reviewing evidence from high quality research that it is relevant to Scotland. Please contact the SBoD project team (nhs.healthscotland-sbod-team@nhs.net) for enquiries and suggestions on how to improve our estimates.

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Appendix: Sequelae and allocation to severity levels for congenital anomalies, with corresponding disability weight

Neural tube defects

Neural tube defects sequelae	Disability weight	Severity distribution
Moderate motor impairment and incontinence due to encephalocele	0.191	0.02%
Moderate motor impairment and severe intellectual disability due to encephalocele	0.211	0.06%
Severe intellectual disability and incontinence due to encephalocele	0.276	0.06%
Severe motor impairment and borderline intellectual disability due to spina bifida	0.408	0.17%
Severe motor impairment and severe intellectual disability due to spina bifida	0.496	0.45%
Moderate motor impairment and profound intellectual disability due to encephalocele	0.402	0.05%
Mild intellectual disability due to encephalocele	0.043	0.46%
Mild motor impairment and severe intellectual disability due to spina bifida	0.169	0.31%
Severe motor impairment and profound intellectual disability due to spina bifida	0.519	0.33%
Mild motor impairment, profound intellectual disability and incontinence due to spina bifida	0.318	0.06%
Moderate motor impairment, severe intellectual disability and incontinence due to spina bifida	0.320	1.80%
Severe motor impairment and incontinence due to spina bifida	0.402	27.71%
Severe motor impairment and moderate intellectual disability due to encephalocele	0.461	0.15%
Severe motor impairment, severe intellectual disability and incontinence due to encephalocele	0.564	0.02%
Moderate motor impairment, profound intellectual disability and incontinence due to encephalocele	0.318	0.01%
Asymptomatic encephalocele following treatment	0.000	1.03%
Moderate motor impairment and mild intellectual disability due to spina bifida	0.101	0.05%
Moderate motor impairment and mild intellectual disability due to encephalocele	0.101	0.06%
Severe motor impairment and mild intellectual disability due to spina bifida	0.427	0.46%
Mild motor impairment and borderline intellectual disability due to encephalocele	0.021	0.01%
Mild motor impairment, severe intellectual disability and incontinence due to encephalocele	0.284	0.00%
Severe intellectual disability due to encephalocele	0.160	0.43%
Severe motor impairment and profound intellectual disability due to encephalocele	0.402	0.11%
Profound intellectual disability and incontinence due to encephalocele	0.311	0.05%
Moderate motor impairment due to encephalocele	0.061	0.15%
Moderate motor impairment and moderate intellectual disability due to encephalocele	0.203	0.07%

Neural tube defects sequelae	Disability weight	Severity distribution
Mild motor impairment, moderate intellectual disability and incontinence due to encephalocele	0.233	0.00%
Mild intellectual disability and incontinence due to encephalocele	0.176	0.06%
Severe motor impairment and severe intellectual disability due to encephalocele	0.496	0.13%
Mild motor impairment, profound intellectual disability and incontinence due to encephalocele	0.402	0.00%
Severe motor and cognitive impairment due to anencephaly	0.542	0.00%
Incontinence due to encephalocele	0.139	0.15%
Mild motor impairment and borderline intellectual disability due to spina bifida	0.021	0.11%
Severe motor impairment and incontinence due to encephalocele	0.402	0.04%
Moderate motor impairment, mild intellectual disability and incontinence due to spina bifida	0.272	1.92%
Mild motor impairment, moderate intellectual disability and incontinence due to spina bifida	0.233	0.07%
Severe motor impairment and mild intellectual disability due to encephalocele	0.427	0.14%
Mild motor impairment, borderline intellectual disability and incontinence due to spina bifida	0.157	0.04%
Borderline intellectual disability due to encephalocele	0.011	0.17%
Severe motor impairment, severe intellectual disability and incontinence due to spina bifida	0.564	1.54%
Severe motor impairment and borderline intellectual disability due to encephalocele	0.408	0.05%
Severe motor impairment, moderate intellectual disability and incontinence due to spina bifida	0.534	1.77%
Moderate motor impairment and borderline intellectual disability due to encephalocele	0.071	0.02%
Mild motor impairment and incontinence due to spina bifida	0.148	0.96%
Mild motor impairment, mild intellectual disability and incontinence due to spina bifida	0.184	0.10%
Mild motor impairment, mild intellectual disability and incontinence due to encephalocele	0.184	0.00%
Borderline intellectual disability and incontinence due to encephalocele	0.148	0.02%
Profound intellectual disability due to encephalocele	0.200	0.35%
Mild motor impairment due to spina bifida	0.010	5.85%
Moderate motor impairment, profound intellectual disability and incontinence due to spina bifida	0.352	1.54%
Moderate motor impairment and borderline intellectual disability due to spina bifida	0.071	0.04%
Mild motor impairment and mild intellectual disability due to encephalocele	0.031	0.01%
Severe motor impairment due to spina bifida	0.402	8.06%
Severe motor impairment, borderline intellectual disability and incontinence due to encephalocele	0.489	0.01%
Moderate intellectual disability due to encephalocele	0.100	0.50%
Severe motor impairment and moderate intellectual disability due to spina bifida	0.461	0.51%
Moderate motor impairment due to spina bifida	0.061	0.95%
Mild motor impairment and incontinence due to encephalocele	0.148	0.00%
Mild motor impairment and moderate intellectual disability due to encephalocele	0.109	0.01%
profound motor impairment, profound intellectual disability and incontinence due to spina bifida	0.584	1.21%

Neural tube defects sequelae	Disability weight	Severity distribution
Mild motor impairment and profound intellectual disability due to encephalocele	0.402	0.01%
Moderate motor impairment and profound intellectual disability due to spina bifida	0.249	0.05%
Moderate motor impairment, mild intellectual disability and incontinence due to encephalocele	0.272	0.01%
Moderate motor impairment, borderline intellectual disability and incontinence due to encephalocele	0.200	0.00%
Severe motor impairment, moderate intellectual disability and incontinence due to encephalocele	0.534	0.02%
Severe motor impairment, mild intellectual disability and incontinence due to encephalocele	0.505	0.02%
Mild motor impairment, severe intellectual disability and incontinence due to spina bifida	0.284	0.07%
Severe motor impairment, profound intellectual disability and incontinence due to encephalocele	0.564	0.02%
Mild motor impairment due to encephalocele	0.010	0.03%
Mild motor impairment, borderline intellectual disability and incontinence due to encephalocele	0.157	0.00%
Severe motor impairment due to encephalocele	0.402	0.32%
Moderate motor impairment, moderate intellectual disability and incontinence due to spina bifida	0.272	2.06%
Mild motor impairment and severe intellectual disability due to encephalocele	0.169	0.01%
Severe motor impairment, mild intellectual disability and incontinence due to spina bifida	0.505	1.64%
Severe motor impairment, borderline intellectual disability and incontinence due to spina bifida	0.489	0.59%
Moderate motor impairment, borderline intellectual disability and incontinence due to spina bifida	0.200	0.73%
Moderate motor impairment and severe intellectual disability due to spina bifida	0.211	0.05%
Mild motor impairment and moderate intellectual disability due to spina bifida	0.109	0.36%
Mild motor impairment and profound intellectual disability due to spina bifida	0.208	0.27%
Mild motor impairment and mild intellectual disability due to spina bifida	0.031	0.35%
Moderate motor impairment and moderate intellectual disability due to spina bifida	0.203	0.04%
Moderate motor impairment and incontinence due to spina bifida	0.191	32.81%
Moderate intellectual disability and incontinence due to encephalocele	0.225	0.07%
Moderate motor impairment, moderate intellectual disability and incontinence due to encephalocele	0.272	0.01%
Moderate motor impairment, severe intellectual disability and incontinence due to encephalocele	0.320	0.01%

Congenital heart disease

Congenital heart disease sequelae	Disability weight	Severity distribution
Congenital heart disease and mild heart failure without intellectual disability due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.041	7.60%
Congenital heart disease and mild heart failure without intellectual disability due to severe congenital heart anomalies excluding single ventricle heart defects	0.041	9.57%
Congenital heart disease and mild heart failure without intellectual disability due to single ventricle and single ventricle pathway heart defects	0.041	2.21%
Congenital heart disease and mild heart failure without intellectual disability due to ventricular septal defect and atrial septal defect	0.041	3.03%
Congenital heart disease, boderline intellectual disability and mild heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.052	0.49%
Congenital heart disease, boderline intellectual disability and mild heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.052	0.57%
Congenital heart disease, boderline intellectual disability and mild heart failure due to single ventricle and single ventricle pathway heart defects	0.052	0.08%
Congenital heart disease, boderline intellectual disability and mild heart failure due to ventricular septal defect and atrial septal defect	0.052	0.49%
Congenital heart disease and moderate heart failure without intellectual disability due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.072	6.21%
Congenital heart disease and moderate heart failure without intellectual disability due to severe congenital heart anomalies excluding single ventricle heart defects	0.072	7.85%
Congenital heart disease and moderate heart failure without intellectual disability due to single ventricle and single ventricle pathway heart defects	0.072	1.80%
Congenital heart disease and moderate heart failure without intellectual disability due to ventricular septal defect and atrial septal defect	0.072	2.45%
Congenital heart disease, boderline intellectual disability and moderate heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.082	0.41%
Congenital heart disease, mild intellectual disability and mild heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.082	0.16%
Congenital heart disease, boderline intellectual disability and moderate heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.082	0.41%
Congenital heart disease, mild intellectual disability and mild heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.082	0.25%
Congenital heart disease, boderline intellectual disability and moderate heart failure due to single ventricle and single ventricle pathway heart defects	0.082	0.08%
Congenital heart disease, mild intellectual disability and mild heart failure due to single ventricle and single ventricle pathway heart defects	0.082	0.08%
Congenital heart disease, boderline intellectual disability and moderate heart failure due to ventricular septal defect and atrial	0.082	0.41%

Congenital heart disease sequelae	Disability weight	Severity distribution
septal defect		
Congenital heart disease, mild intellectual disability and mild heart failure due to ventricular septal defect and atrial septal defect	0.082	0.08%
Congenital heart disease, mild intellectual disability and moderate heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.111	0.16%
Congenital heart disease, mild intellectual disability and moderate heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.111	0.16%
Congenital heart disease, mild intellectual disability and moderate heart failure due to single ventricle and single ventricle pathway heart defects	0.111	0.00%
Congenital heart disease, mild intellectual disability and moderate heart failure due to ventricular septal defect and atrial septal defect	0.111	0.08%
Congenital heart disease, moderate intellectual disability and mild heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.137	0.08%
Congenital heart disease, moderate intellectual disability and mild heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.137	0.08%
Congenital heart disease, moderate intellectual disability and mild heart failure due to single ventricle and single ventricle pathway heart defects	0.137	0.00%
Congenital heart disease, moderate intellectual disability and mild heart failure due to ventricular septal defect and atrial septal defect	0.137	0.00%
Congenital heart disease, moderate intellectual disability and moderate heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.164	0.00%
Congenital heart disease, moderate intellectual disability and moderate heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.164	0.08%
Congenital heart disease, moderate intellectual disability and moderate heart failure due to single ventricle and single ventricle pathway heart defects	0.164	0.00%
Congenital heart disease, moderate intellectual disability and moderate heart failure due to ventricular septal defect and atrial septal defect	0.164	0.00%
Congenital heart disease and severe heart failure without intellectual disability due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.179	16.84%
Congenital heart disease and severe heart failure without intellectual disability due to severe congenital heart anomalies excluding single ventricle heart defects	0.179	21.26%
Congenital heart disease and severe heart failure without intellectual disability due to single ventricle and single ventricle pathway heart defects	0.179	4.82%
Congenital heart disease and severe heart without intellectual disability due to ventricular septal defect and atrial septal defect	0.179	6.79%
Congenital heart disease, borderline intellectual disability and severe heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.188	1.06%
Congenital heart disease, borderline intellectual disability and severe heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.188	1.23%
Congenital heart disease, borderline intellectual disability and severe heart failure due to single ventricle and single ventricle pathway heart defects	0.188	0.25%
Congenital heart disease, borderline intellectual disability and	0.188	1.06%

Congenital heart disease sequelae	Disability weight	Severity distribution
severe heart failure due to ventricular septal defect and atrial septal defect		
Congenital heart disease, severe intellectual disability and mild heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.195	0.00%
Congenital heart disease, severe intellectual disability and mild heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.195	0.00%
Congenital heart disease, severe intellectual disability and mild heart failure due to single ventricle and single ventricle pathway heart defects	0.195	0.00%
Congenital heart disease, severe intellectual disability and mild heart failure due to ventricular septal defect and atrial septal defect	0.195	0.00%
Congenital heart disease, mild intellectual disability and severe heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.214	0.33%
Congenital heart disease, mild intellectual disability and severe heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.214	0.49%
Congenital heart disease, mild intellectual disability and severe heart failure due to single ventricle and single ventricle pathway heart defects	0.214	0.08%
Congenital heart disease, mild intellectual disability and severe heart failure due to ventricular septal defect and atrial septal defect	0.214	0.25%
Congenital heart disease, severe intellectual disability and moderate heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.220	0.00%
Congenital heart disease, severe intellectual disability and moderate heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.220	0.00%
Congenital heart disease, severe intellectual disability and moderate heart failure due to single ventricle and single ventricle pathway heart defects	0.220	0.00%
Congenital heart disease, severe intellectual disability and moderate heart failure due to ventricular septal defect and atrial septal defect	0.220	0.00%
Congenital heart disease, profound intellectual disability and mild heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.233	0.00%
Congenital heart disease, profound intellectual disability and mild heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.233	0.00%
Congenital heart disease, profound intellectual disability and mild heart failure due to single ventricle and single ventricle pathway heart defects	0.233	0.00%
Congenital heart disease, profound intellectual disability and mild heart failure due to ventricular septal defect and atrial septal defect	0.233	0.00%
Congenital heart disease, profound intellectual disability and moderate heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.257	0.00%
Congenital heart disease, profound intellectual disability and moderate heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.257	0.00%
Congenital heart disease, profound intellectual disability and moderate heart failure due to single ventricle and single ventricle pathway heart defects	0.257	0.00%
Congenital heart disease, profound intellectual disability and moderate heart failure due to ventricular septal defect and atrial	0.257	0.00%

Congenital heart disease sequelae	Disability weight	Severity distribution
septal defect		
Congenital heart disease, moderate intellectual disability and severe heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.261	0.08%
Congenital heart disease, moderate intellectual disability and severe heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.261	0.16%
Congenital heart disease, moderate intellectual disability and severe heart failure due to single ventricle and single ventricle pathway heart defects	0.261	0.00%
Congenital heart disease, moderate intellectual disability and severe heart failure due to ventricular septal defect and atrial septal defect	0.261	0.08%
Congenital heart disease, severe intellectual disability and severe heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.310	0.00%
Congenital heart disease, severe intellectual disability and severe heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.310	0.08%
Congenital heart disease, severe intellectual disability and severe heart failure due to single ventricle and single ventricle pathway heart defects	0.310	0.00%
Congenital heart disease, severe intellectual disability and severe heart failure due to ventricular septal defect and atrial septal defect	0.310	0.00%
Congenital heart disease, profound intellectual disability and severe heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.342	0.08%
Congenital heart disease, profound intellectual disability and severe heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.342	0.08%
Congenital heart disease, profound intellectual disability and severe heart failure due to single ventricle and single ventricle pathway heart defects	0.342	0.00%
Congenital heart disease, profound intellectual disability and severe heart failure due to ventricular septal defect and atrial septal defect	0.342	0.08%
Congenital heart disease and borderline intellectual disability without heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.011	5.45%
Congenital heart disease and mild intellectual disability without heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.043	1.96%
Congenital heart disease without heart failure or intellectual disability due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.072	91.46%
Congenital heart disease and moderate intellectual disability without heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.100	0.59%
Congenital heart disease and severe intellectual disability without heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.160	0.18%
Congenital heart disease and profound intellectual disability without heart failure due to critical malformations of great vessels, congenital valvular heart disease and patent ductus arteriosus	0.200	0.35%
Congenital heart disease and borderline intellectual disability without heart failure due to other congenital cardiovascular anomalies	0.011	3.38%
Congenital heart disease and mild intellectual disability without heart failure due to other congenital cardiovascular anomalies	0.043	1.68%

Congenital heart disease sequelae	Disability weight	Severity distribution
Congenital heart disease without intellectual disability or heart failure due to other congenital cardiovascular anomalies	0.072	94.03%
Congenital heart disease and moderate intellectual disability without heart failure due to other congenital cardiovascular anomalies	0.100	0.49%
Congenital heart disease and severe intellectual disability without heart failure due to other congenital cardiovascular anomalies	0.160	0.17%
Congenital heart disease and profound intellectual disability without heart failure due to other congenital cardiovascular anomalies	0.200	0.25%
Congenital heart disease and borderline intellectual disability without heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.011	4.79%
Congenital heart disease and mild intellectual disability without heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.043	2.03%
Congenital heart disease without intellectual disability or heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.072	91.96%
Congenital heart disease and moderate intellectual disability without heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.100	0.65%
Congenital heart disease and severe intellectual disability without heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.160	0.21%
Congenital heart disease and profound intellectual disability without heart failure due to severe congenital heart anomalies excluding single ventricle heart defects	0.200	0.36%
Congenital heart disease and borderline intellectual disability without heart failure due to single ventricle and single ventricle pathway heart defects	0.011	7.06%
Congenital heart disease and mild intellectual disability without heart failure due to single ventricle and single ventricle pathway heart defects	0.043	2.48%
Congenital heart disease without intellectual disability or heart failure due to single ventricle and single ventricle pathway heart defects	0.072	89.13%
Congenital heart disease and moderate intellectual disability without heart failure due to single ventricle and single ventricle pathway heart defects	0.100	0.70%
Congenital heart disease and severe intellectual disability without heart failure due to single ventricle and single ventricle pathway heart defects	0.160	0.19%
Congenital heart disease and profound intellectual disability without heart failure due to single ventricle and single ventricle pathway heart defects	0.200	0.44%
Asymptomatic ventricular septal defect and atrial septal defect	0.000	45.18%
Congenital heart disease and borderline intellectual disability without heart failure due to ventricular septal defect and atrial septal defect	0.011	4.32%
Congenital heart disease and mild intellectual disability without heart failure due to ventricular septal defect and atrial septal defect	0.043	1.18%
Congenital heart disease without heart failure or intellectual disability due to ventricular septal defect and atrial septal defect	0.072	48.70%
Congenital heart disease and moderate intellectual disability without heart failure due to ventricular septal defect and atrial septal defect	0.100	0.32%
Congenital heart disease and severe intellectual disability without heart failure due to ventricular septal defect and atrial septal defect	0.160	0.09%

Congenital heart disease sequelae	Disability weight	Severity distribution
Congenital heart disease and profound intellectual disability without heart failure due to ventricular septal defect and atrial septal defect	0.200	0.21%

Orofacial clefts

Orofacial clefts sequelae	Disability weight	Severity distribution
Asymptomatic orofacial clefts	0.000	79.8%
Disfigurement level 1 due to orofacial clefts	0.011	6.7%
Disfigurement level 2 due to orofacial clefts	0.067	6.7%
Disfigurement level 2 and speech problems due to orofacial clefts	0.158	6.7%

Down's syndrome

Down's syndrome sequelae	Disability weight	Severity distribution
Severe intellectual disability, moderate dementia, and congenital heart disease due to Down syndrome	0.475	0.03%
Moderate intellectual disability with congenital heart disease due to Down syndrome	0.100	10.36%
Borderline intellectual disability, mild dementia, and congenital heart disease due to Down syndrome	0.079	0.21%
Congenital heart disease and severe dementia due to Down syndrome	0.449	0.00%
Profound intellectual disability with congenital heart disease due to Down syndrome	0.200	3.53%
Borderline intellectual disability due to Down syndrome	0.011	6.66%
Severe intellectual disability, severe dementia, and congenital heart disease due to Down syndrome	0.535	0.01%
Mild intellectual disability, severe dementia, and congenital heart disease due to Down syndrome	0.472	0.03%
Moderate intellectual disability, severe dementia, and congenital heart disease due to Down syndrome	0.503	0.02%
Profound intellectual disability and moderate dementia due to Down syndrome	0.499	0.04%
Severe intellectual disability and moderate dementia due to Down syndrome	0.475	0.04%
Mild intellectual disability and moderate dementia due to Down syndrome	0.403	0.15%
Moderate intellectual disability, mild dementia, and congenital heart disease due to Down syndrome	0.162	0.35%
Borderline intellectual disability and mild dementia due to Down syndrome	0.079	0.29%
Moderate intellectual disability and moderate dementia due to Down syndrome	0.438	0.10%
Mild intellectual disability with congenital heart disease due to Down syndrome	0.043	12.75%
Profound intellectual disability and mild dementia due to Down syndrome	0.255	0.20%
Congenital heart disease and mild dementia due to Down syndrome	0.069	0.09%
Borderline intellectual disability, severe dementia, and congenital heart disease due to Down syndrome	0.455	0.01%
Mild intellectual disability, moderate dementia, and congenital heart disease due to Down syndrome	0.403	0.11%
Severe intellectual disability and mild dementia due to Down syndrome	0.218	0.17%

Down's syndrome sequelae	Disability weight	Severity distribution
Moderate dementia due to Down syndrome	0.377	0.02%
Severe intellectual disability and severe dementia due to Down syndrome	0.535	0.01%
Severe intellectual disability, mild dementia, and congenital heart disease due to Down syndrome	0.218	0.12%
Mild intellectual disability and severe dementia due to Down syndrome	0.472	0.04%
Borderline intellectual disability and moderate dementia due to Down syndrome	0.384	0.06%
Borderline intellectual disability with congenital heart disease due to Down syndrome	0.011	4.83%
Borderline intellectual disability and severe dementia due to Down syndrome	0.455	0.02%
Mild intellectual disability and mild dementia due to Down syndrome	0.109	0.71%
Severe intellectual disability with congenital heart disease due to Down syndrome	0.160	6.71%
Mild dementia due to Down syndrome	0.069	0.12%
Congenital heart disease and moderate dementia due to Down syndrome	0.377	0.02%
Mild intellectual disability due to Down syndrome	0.043	17.55%
Borderline intellectual disability, moderate dementia, and congenital heart disease due to Down syndrome	0.384	0.04%
Moderate intellectual disability, moderate dementia, and congenital heart disease due to Down syndrome	0.438	0.08%
Asymptomatic Down syndrome	0.000	2.78%
Severe intellectual disability due to Down syndrome	0.160	9.24%
Profound intellectual disability, severe dementia, and congenital heart disease due to Down syndrome	0.557	0.01%
Profound intellectual disability, mild dementia, and congenital heart disease due to Down syndrome	0.255	0.15%
Severe dementia due to Down syndrome	0.449	0.01%
Profound intellectual disability, moderate dementia, and congenital heart disease due to Down syndrome	0.499	0.03%
Moderate intellectual disability and mild dementia due to Down syndrome	0.162	0.48%
Isolated congenital heart disease due to Down syndrome	0.072	2.01%
Moderate intellectual disability due to Down syndrome	0.100	14.32%
Mild intellectual disability, mild dementia, and congenital heart disease due to Down syndrome	0.109	0.51%
Profound intellectual disability due to Down syndrome	0.200	4.88%
Moderate intellectual disability and severe dementia due to Down syndrome	0.503	0.03%
Profound intellectual disability and severe dementia due to Down syndrome	0.557	0.01%

Turner syndrome

Turner syndrome sequelae	Disability weight	Severity distribution
Asymptomatic Turner syndrome	0.000	35%
Primary infertility due to Turner syndrome	0.008	42%
Congenital heart disease due to Turner syndrome	0.072	10%
Congenital heart disease with infertility due to Turner syndrome	0.079	12%

Klinefelter syndrome

Klinefelter syndrome sequelae	Disability weight	Severity distribution
Asymptomatic Klinefelter syndrome	0.000	48%
Primary infertility due to Klinefelter syndrome	0.008	32%
Borderline intellectual disability due to Klinefelter syndrome	0.011	11%
Borderline intellectual disability with infertility due to Klinefelter syndrome	0.019	7%
Mild intellectual disability due to Klinefelter syndrome	0.043	1%
Mild intellectual disability with infertility due to Klinefelter syndrome	0.051	1%

Other chromosomal abnormalities

Other chromosomal abnormalities sequelae	Disability weight	Severity distribution
Asymptomatic other chromosomal abnormalities	0.000	2.7%
Borderline intellectual disability due to other chromosomal abnormalities	0.011	6.5%
Borderline intellectual disability with congenital heart disease due to other chromosomal abnormalities	0.011	4.7%
Mild intellectual disability with congenital heart disease due to other chromosomal abnormalities	0.043	12.4%
Mild intellectual disability due to other chromosomal abnormalities	0.043	17.1%
Mild dementia due to other chromosomal abnormalities	0.069	0.0%
Congenital heart disease and mild dementia due to other chromosomal abnormalities	0.069	0.0%
Isolated congenital heart disease due to other chromosomal abnormalities	0.072	2.0%
Borderline intellectual disability, mild dementia, and congenital heart disease due to other chromosomal abnormalities	0.079	0.0%
Borderline intellectual disability and mild dementia due to other chromosomal abnormalities	0.079	0.0%
Moderate intellectual disability due to other chromosomal abnormalities	0.100	14.0%
Moderate intellectual disability with congenital heart disease due to other chromosomal abnormalities	0.100	10.1%
Mild intellectual disability, mild dementia, and congenital heart disease due to other chromosomal abnormalities	0.109	0.0%
Mild intellectual disability and mild dementia due to other chromosomal abnormalities	0.109	0.0%
Severe intellectual disability due to other chromosomal abnormalities	0.160	9.0%
Severe intellectual disability with congenital heart disease due to other chromosomal abnormalities	0.160	6.5%
Moderate intellectual disability and mild dementia due to other chromosomal abnormalities	0.162	0.0%
Moderate intellectual disability, mild dementia, and congenital heart disease due to other chromosomal abnormalities	0.162	0.0%
Profound intellectual disability due to other chromosomal abnormalities	0.200	4.8%
Profound intellectual disability with congenital heart disease due to other chromosomal abnormalities	0.200	3.4%
Severe intellectual disability, mild dementia, and congenital heart disease due to other chromosomal abnormalities	0.218	0.0%

Other chromosomal abnormalities sequelae	Disability weight	Severity distribution
Severe intellectual disability and mild dementia due to other chromosomal abnormalities	0.218	0.0%
Profound intellectual disability, mild dementia, and congenital heart disease due to other chromosomal abnormalities	0.255	0.0%
Profound intellectual disability and mild dementia due to other chromosomal abnormalities	0.255	0.0%
Moderate dementia due to other chromosomal abnormalities	0.377	0.0%
Congenital heart disease and moderate dementia due to other chromosomal abnormalities	0.377	0.0%
Borderline intellectual disability and moderate dementia due to other chromosomal abnormalities	0.384	0.0%
Borderline intellectual disability, moderate dementia, and congenital heart disease due to other chromosomal abnormalities	0.384	0.0%
Mild intellectual disability, moderate dementia, and congenital heart disease due to other chromosomal abnormalities	0.403	0.0%
Mild intellectual disability and moderate dementia due to other chromosomal abnormalities	0.403	0.0%
Moderate intellectual disability and moderate dementia due to other chromosomal abnormalities	0.438	0.0%
Moderate intellectual disability, moderate dementia, and congenital heart disease due to other chromosomal abnormalities	0.438	0.0%
Congenital heart disease and severe dementia due to other chromosomal abnormalities	0.449	0.0%
Severe dementia due to other chromosomal abnormalities	0.449	0.0%
Borderline intellectual disability and severe dementia due to other chromosomal abnormalities	0.455	0.0%
Borderline intellectual disability, severe dementia, and congenital heart disease due to other chromosomal abnormalities	0.455	0.0%
Mild intellectual disability, severe dementia, and congenital heart disease due to other chromosomal abnormalities	0.472	0.0%
Mild intellectual disability and severe dementia due to other chromosomal abnormalities	0.472	0.0%
Severe intellectual disability, moderate dementia, and congenital heart disease due to other chromosomal abnormalities	0.475	0.0%
Severe intellectual disability and moderate dementia due to other chromosomal abnormalities	0.475	0.0%
Profound intellectual disability, moderate dementia, and congenital heart disease due to other chromosomal abnormalities	0.499	0.0%
Profound intellectual disability and moderate dementia due to other chromosomal abnormalities	0.499	0.0%
Moderate intellectual disability and severe dementia due to other chromosomal abnormalities	0.503	0.0%
Moderate intellectual disability, severe dementia, and congenital heart disease due to other chromosomal abnormalities	0.503	0.0%
Severe intellectual disability, severe dementia, and congenital heart disease due to other chromosomal abnormalities	0.535	0.0%
Severe intellectual disability and severe dementia due to other chromosomal abnormalities	0.535	0.0%
Severe motor and cognitive impairment due to Edward Syndrome or Patau Syndrome	0.542	5.3%
Severe motor and cognitive impairment with congenital heart disease due to Edward Syndrome or Patau Syndrome	0.542	1.5%
Profound intellectual disability and severe dementia due to other chromosomal abnormalities	0.557	0.0%
Profound intellectual disability, severe dementia, and congenital heart disease due to other chromosomal abnormalities	0.557	0.0%

Congenital musculoskeletal and limb anomalies

Congenital musculoskeletal and limb anomalies sequelae	Disability weight	Severity distribution
Disfigurement level 1 due to polydactyly and syndactyly	0.011	6.2%
Disfigurement level 2 due to other congenital musculoskeletal anomalies	0.067	9.6%
Disfigurement level 2 due to congenital limb deficiency	0.067	9.9%
Disfigurement level 2 and mild motor impairment due to other congenital musculoskeletal anomalies	0.076	3.1%
Disfigurement level 2 and mild motor impairment due to congenital limb deficiency	0.076	3.2%
Disfigurement level 2 and moderate motor impairment due to other congenital musculoskeletal anomalies	0.124	3.9%
Disfigurement level 2 and moderate motor impairment due to congenital limb deficiency	0.124	4.1%
Disfigurement level 2 with pain due to other congenital musculoskeletal anomalies	0.188	17.1%
Disfigurement level 2 with pain due to congenital limb deficiency	0.188	17.7%
Disfigurement level 2 with pain and mild motor impairment due to other congenital musculoskeletal anomalies	0.196	5.4%
Disfigurement level 2 with pain and mild motor impairment due to congenital limb deficiency	0.196	5.6%
Disfigurement level 2 with pain and moderate motor impairment due to congenital limb deficiency	0.237	7.2%
Disfigurement level 2 with pain and moderate motor impairment due to other congenital musculoskeletal anomalies	0.237	7.0%

Digestive congenital anomalies

Digestive congenital anomalies sequelae	Disability weight	Severity distribution
Asymptomatic congenital diaphragmatic hernia	0.000	4.4%
Asymptomatic other congenital malformations of the digestive tract	0.000	4.4%
Asymptomatic congenital malformations of the abdominal wall after treatment	0.000	1.9%
Asymptomatic congenital atresia and/or stenosis of the digestive tract	0.000	0.1%
Acid reflux, dysphagia, and/or constipation due to other congenital malformations of the digestive tract	0.011	46.9%
Dysphagia or acid reflux due to congenital atresia and/or stenosis of the digestive tract	0.011	0.7%
Chronic abdominal pain due to congenital malformations of the abdominal wall	0.011	0.7%
Disfigurement due to congenital diaphragmatic hernia	0.011	1.5%
Chronic abdominal pain due to congenital diaphragmatic hernia	0.011	1.3%
Disfigurement from scars following treatment for congenital malformations of the abdominal wall	0.011	1.5%
Mild chronic respiratory problems and breathlessness due to congenital diaphragmatic hernia	0.019	0.9%
Chronic respiratory problems including difficulty breathing and recurrent upper respiratory infections due to atresia and/or stenosis of the digestive tract	0.019	0.1%
Constipation and concern about scars due to congenital malformations of the abdominal wall	0.022	0.6%
Chronic abdominal pain and mild chronic respiratory problems due	0.030	0.3%

Digestive congenital anomalies sequelae	Disability weight	Severity distribution
to congenital diaphragmatic hernia		
Chronic respiratory problems and abdominal pain due to congenital atresia and/or stenosis of the digestive tract	0.030	0.2%
Chronic respiratory problems and dysphagia or acid reflux due to congenital atresia and/or stenosis of the digestive tract	0.030	1.0%
Chronic abdominal pain and disfigurement due to congenital diaphragmatic hernia	0.037	0.5%
Developmental delay or mild intellectual disability due to congenital diaphragmatic hernia	0.043	1.3%
Disfigurement and mild chronic respiratory problems due to congenital diaphragmatic hernia	0.045	0.3%
Chronic abdominal pain and developmental delay due to congenital diaphragmatic hernia	0.053	0.4%
Chronic abdominal pain, disfigurement and chronic respiratory problems due to congenital diaphragmatic hernia	0.056	0.1%
Chronic abdominal pain, chronic respiratory problems and developmental delay due to congenital diaphragmatic hernia	0.056	0.1%
Mild chronic respiratory problems and developmental delay due to congenital diaphragmatic hernia	0.061	0.2%
Disfigurement and developmental delay due to congenital diaphragmatic hernia	0.068	0.4%
Chronic abdominal pain, disfigurement and developmental delay due to congenital diaphragmatic hernia	0.078	0.1%
Disfigurement, chronic respiratory problems and developmental delay due to congenital diaphragmatic hernia	0.086	0.1%
Chronic abdominal pain, disfigurement, developmental delay and chronic respiratory problems due to congenital diaphragmatic hernia	0.096	0.0%
Constipation due to congenital malformations of the abdominal wall	0.114	0.8%
Chronic abdominal pain due to congenital atresia and/or stenosis of the digestive tract	0.114	0.1%
Chronic abdominal pain and/or nausea due to other congenital malformations of the digestive tract	0.114	2.3%
Constipation and chronic abdominal pain due to congenital malformations of the abdominal wall	0.124	0.3%
Chronic abdominal pain and concern about scars due to congenital malformations of the abdominal wall	0.124	0.6%
Chronic abdominal pain and/or nausea with acid reflux, dysphagia, and/or constipation due to other congenital malformations of the digestive tract	0.124	23.5%
Dysphagia or acid reflux and chronic abdominal pain due to congenital atresia and/or stenosis of the digestive tract	0.124	0.8%
Dysphagia or acid reflux, chronic abdominal pain and chronic respiratory problems due to congenital atresia and/or stenosis of the digestive tract	0.141	1.3%
Constipation, chronic abdominal pain and concern about scars due to congenital malformations of the abdominal wall	0.206	0.2%

Urogenital congenital anomalies

Urogenital congenital anomalies sequelae	Disability weight	Severity distribution
Asymptomatic congenital genital anomalies	0.000	10.9%
Asymptomatic congenital anomalies of the urinary tract	0.000	0.6%
Primary infertility due to congenital genital anomalies	0.008	6.2%
Atypical genitalia and primary infertility due to congenital genital anomalies	0.008	2.0%
Atypical genitalia due to congenital anomalies of the urinary tract	0.011	7.1%
Recurrent urinary tract infections or other abdominal issues due to congenital genital anomalies	0.011	3.1%
Atypical genitalia due to congenital genital anomalies	0.011	20.2%
Recurrent urinary tract infections or other abdominal issues due to congenital anomalies of the urinary tract	0.011	1.1%
Impotence due to congenital anomalies of the urinary tract	0.017	1.9%
Impotence due to congenital genital anomalies	0.017	1.1%
Primary infertility and recurrent urinary tract infections or other abdominal issues due to congenital genital anomalies	0.019	0.6%
Atypical genital and recurrent urinary tract infections and other abdominal issues due to congenital genital anomalies	0.022	11.5%
Atypical genitalia and incontinence due to congenital anomalies of the urinary tract	0.022	3.5%
Atypical genital and recurrent urinary tract infections and other abdominal issues due to congenital anomalies of the urinary tract	0.022	4.0%
Infertility and impotence due to congenital genital anomalies	0.025	0.3%
Atypical genitalia and impotence due to congenital anomalies of the urinary tract	0.028	2.0%
Impotence and recurrent urinary tract infections or other abdominal issues due to congenital genital anomalies	0.028	1.8%
Atypical genitalia and impotence due to congenital genital anomalies	0.028	6.0%
Impotence and recurrent urinary tract infections or other abdominal issues due to congenital anomalies of the urinary tract	0.028	2.1%
Atypical genitalia, infertility and impotence due to congenital genital anomalies	0.029	0.6%
Atypical genitalia, recurrent urinary tract infections or other abdominal issues and infertility due to congenital genital anomalies	0.029	1.1%
Infertility, impotence, and recurrent urinary tract infections or other abdominal issues and impotence due to congenital genital anomalies	0.035	0.2%
Atypical genitalia, recurrent urinary tract infections or other abdominal issues and impotence due to congenital genital anomalies	0.039	3.5%
Atypical genitalia, recurrent urinary tract infections or other abdominal issues and impotence due to congenital anomalies of the urinary tract	0.039	0.5%
Atypical genitalia, infertility, impotence, and recurrent urinary tract infections or other abdominal issues and impotence due to congenital genital anomalies	0.046	0.3%
Incontinence due to congenital anomalies of the urinary tract	0.139	2.1%
Incontinence and recurrent urinary tract infections or other abdominal issues due to congenital anomalies of the urinary tract	0.149	1.1%
Incontinence and impotence due to congenital anomalies of the urinary tract	0.154	0.5%

Urogenital congenital anomalies sequelae	Disability weight	Severity distribution
Atypical genitalia, incontinence and impotence due to congenital anomalies of the urinary tract	0.158	1.0%
Atypical genitalia, recurrent urinary tract infections or other abdominal issues and incontinence due to congenital anomalies of the urinary tract	0.158	2.0%
Incontinence, impotence, and recurrent urinary tract infections or other abdominal issues and impotence due to congenital anomalies of the urinary tract	0.163	0.3%
Atypical genitalia, incontinence, impotence, and recurrent urinary tract infections or other abdominal issues and impotence due to congenital anomalies of the urinary tract	0.172	0.6%

Other congenital anomalies

Other congenital anomalies sequelae	Disability weight	Severity distribution
Moderate hearing loss with ringing due to other congenital anomalies	0.074	4.3%
Severe hearing loss due to other congenital anomalies	0.158	3.1%
Profound hearing loss with ringing due to other congenital anomalies	0.277	10.0%
Moderately severe hearing loss with ringing due to other congenital anomalies	0.168	7.8%
Mild hearing loss due to other congenital anomalies	0.010	28.0%
Moderate hearing loss due to other congenital anomalies	0.027	9.9%
Profound hearing loss due to other congenital anomalies	0.204	5.6%
Complete hearing loss due to other congenital anomalies	0.215	2.8%
Mild hearing loss with ringing due to other congenital anomalies	0.021	7.4%
Complete hearing loss with ringing due to other congenital anomalies	0.316	3.4%
Severe hearing loss with ringing due to other congenital anomalies	0.261	1.7%
Other congenital birth defects	-1.000	0.0%
Moderately severe hearing loss due to other congenital anomalies	0.093	16.1%

