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| **Cases** | **Year** |  |
| **Birth defect** | **2012** | **2013** | **2014** | **2015** | **2016** | **2017** | **2018** | **2019** |
| Anencephalus | 3 | 1 | 3 | 2 | 0 | 1 | 1 | 4 |
| Spina bifida | 18 | 13 | 23 | 17 | 9 | 21 | 5 | 11 |
| Encephalocele | 4 | 3 | 5 | 8 | 1 | 3 | 4 | 0 |
| Microcephaly | 19 | 20 | 12 | 16 | 22 | 11 | 21 | 13 |
| Reduction deformities of brain | 22 | 21 | 20 | 23 | 17 | 18 | 25 | 18 |
| Congenital hydrocephalus | 19 | 12 | 18 | 13 | 6 | 9 | 13 | 8 |
| Microphthalmos | 4 | 2 | 2 | 1 | 3 | 1 | 3 | 1 |
| Buphthalmos | 3 | 4 | 5 | 10 | 5 | 4 | 2 | 0 |
| Unspecified anomaly of ear (incl microtia) | 6 | 6 | 6 | 8 | 7 | 6 | 7 | 8 |
| Transposition of the great vessels | 22 | 33 | 31 | 30 | 39 | 37 | 35 | 39 |
| Tetralogy of Fallot | 22 | 20 | 19 | 16 | 27 | 15 | 23 | 12 |
| Hypoplastic left heart syndrome | 6 | 14 | 6 | 7 | 6 | 7 | 10 | 10 |
| Coarctation of aorta | 9 | 20 | 19 | 19 | 16 | 16 | 28 | 28 |
| Ventricular septal defect | 114 | 170 | 154 | 144 | 178 | 153 | 172 | 160 |
| Atrial septal defect | 146 | 231 | 166 | 201 | 208 | 211 | 213 | 195 |
| Tracheoesophagael fistula, oesophageal atresia and stenosis | 9 | 9 | 7 | 7 | 8 | 6 | 7 | 12 |
| Choanal atresia | 4 | 6 | 4 | 8 | 5 | 9 | 7 | 7 |
| Cleft palate without cleft lip | 66 | 89 | 61 | 92 | 87 | 75 | 66 | 71 |
| Cleft lip | 22 | 26 | 25 | 42 | 36 | 29 | 38 | 35 |
| Cleft palate with cleft lip | 14 | 5 | 1 | 0 | 0 | 0 | 0 | 0 |
| Atresia and stenosis of small intestine | 4 | 9 | 15 | 9 | 6 | 7 | 8 | 19 |
| Anorectal atresia | 9 | 16 | 16 | 8 | 9 | 13 | 12 | 16 |
| Undescended testis | 385 | 447 | 441 | 391 | 386 | 367 | 219 | 203 |
| Hypospadias and epispadias | 200 | 195 | 210 | 186 | 154 | 175 | 133 | 109 |
| Congenital dislocation of hip | 57 | 74 | 69 | 54 | 59 | 63 | 45 | 40 |
| Indeterminate sex and pseudohermaphroditism | 0 | 1 | 4 | 0 | 4 | 1 | 2 | 7 |
| Renal agenesis and dysgenesis | 21 | 23 | 23 | 24 | 34 | 35 | 26 | 21 |
| Cystic kidney | 23 | 34 | 44 | 22 | 31 | 29 | 35 | 23 |
| Exstrophy of urinary bladder | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 2 |
| Polydactyly | 59 | 80 | 60 | 66 | 64 | 53 | 55 | 56 |
| Reduction deformities of lower limbs | 3 | 7 | 3 | 2 | 8 | 9 | 2 | 6 |
| Reduction deformities, unspecified limb | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Reduction deformities of upper limbs | 7 | 12 | 7 | 10 | 6 | 12 | 0 | 7 |
| Syndactyly | 21 | 28 | 19 | 31 | 22 | 25 | 17 | 24 |
| Anomalies of diaphragm | 12 | 11 | 11 | 16 | 13 | 20 | 16 | 18 |
| Anomalies of abdominal wall | 21 | 35 | 30 | 38 | 23 | 31 | 25 | 40 |
| Patau syndrome (Trisomy 13) | 2 | 3 | 1 | 1 | 3 | 3 | 2 | 0 |
| Edwards syndrome (Trisomy 18) | 4 | 5 | 5 | 4 | 3 | 6 | 8 | 5 |
| Down syndrome (Trisomy 21) | 50 | 51 | 57 | 47 | 37 | 50 | 49 | 49 |
| Neural tube defects | 25 | 17 | 31 | 27 | 10 | 25 | 10 | 15 |
| Congenital heart defects | 667 | 871 | 735 | 743 | 794 | 778 | 789 | 818 |
| All chromosomal anomlaies | 91 | 95 | 103 | 80 | 67 | 91 | 82 | 80 |
| source: New Zealand Birth Defects Registry, August 2020 |  |  |  |  |  |

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| **Birth defects ascertained among livebirths, 2012-18** |
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| **Rates per 1,000 livebirths** | **Year** |  |
| **Birth defect** | **2012** | **2013** | **2014** | **2015** | **2016** | **2017** | **2018** | **Total** |
| Anencephalus | 0.05 | 0.02 | 0.05 | 0.03 | 0.00 | 0.02 | 0.02 | 0.03 |
| Spina bifida | 0.29 | 0.22 | 0.40 | 0.28 | 0.15 | 0.35 | 0.08 | 0.26 |
| Encephalocele | 0.07 | 0.05 | 0.09 | 0.13 | 0.02 | 0.05 | 0.07 | 0.07 |
| Microcephaly | 0.31 | 0.34 | 0.21 | 0.26 | 0.37 | 0.18 | 0.35 | 0.29 |
| Reduction deformities of brain | 0.36 | 0.36 | 0.35 | 0.38 | 0.29 | 0.30 | 0.42 | 0.35 |
| Congenital hydrocephalus | 0.31 | 0.20 | 0.31 | 0.21 | 0.10 | 0.15 | 0.22 | 0.22 |
| Microphthalmos | 0.07 | 0.03 | 0.03 | 0.02 | 0.05 | 0.02 | 0.05 | 0.04 |
| Buphthalmos | 0.05 | 0.07 | 0.09 | 0.16 | 0.08 | 0.07 | 0.03 | 0.08 |
| Unspecified anomaly of ear (incl microtia) | 0.10 | 0.10 | 0.10 | 0.13 | 0.12 | 0.10 | 0.12 | 0.11 |
| Transposition of the great vessels | 0.36 | 0.56 | 0.54 | 0.49 | 0.66 | 0.62 | 0.59 | 0.55 |
| Tetralogy of fallot | 0.36 | 0.34 | 0.33 | 0.26 | 0.45 | 0.25 | 0.39 | 0.34 |
| Hypoplastic left heart syndrome | 0.10 | 0.24 | 0.10 | 0.11 | 0.10 | 0.12 | 0.17 | 0.13 |
| Coarctation of aorta | 0.15 | 0.34 | 0.33 | 0.31 | 0.27 | 0.27 | 0.47 | 0.31 |
| Ventricular septal defect | 1.86 | 2.90 | 2.69 | 2.36 | 3.00 | 2.57 | 2.89 | 2.61 |
| Atrial septal defect | 2.39 | 3.93 | 2.90 | 3.29 | 3.50 | 3.54 | 3.57 | 3.31 |
| Tracheoesophagael fistula, oesophageal atresia and stenosis | 0.15 | 0.15 | 0.12 | 0.11 | 0.13 | 0.10 | 0.12 | 0.13 |
| Choanal atresia | 0.07 | 0.10 | 0.07 | 0.13 | 0.08 | 0.15 | 0.12 | 0.10 |
| Cleft palate without cleft lip | 1.08 | 1.52 | 1.07 | 1.51 | 1.46 | 1.26 | 1.11 | 1.29 |
| Cleft lip | 0.36 | 0.44 | 0.44 | 0.69 | 0.61 | 0.49 | 0.64 | 0.52 |
| Cleft palate with cleft lip | 0.23 | 0.09 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 |
| Atresia and stenosis of small intestine | 0.07 | 0.15 | 0.26 | 0.15 | 0.10 | 0.12 | 0.13 | 0.14 |
| Anorectal aresia | 0.15 | 0.27 | 0.28 | 0.13 | 0.15 | 0.22 | 0.20 | 0.20 |
| Undescended testis | 6.29 | 7.61 | 7.70 | 6.41 | 6.50 | 6.16 | 3.67 | 6.35 |
| Hypospadias and epispadias | 3.27 | 3.32 | 3.67 | 3.05 | 2.59 | 2.94 | 2.23 | 3.02 |
| Congenital dislocation of hip | 0.93 | 1.26 | 1.21 | 0.88 | 0.99 | 1.06 | 0.75 | 1.01 |
| Indeterminate sex and pseudohermaphroditism | 0.00 | 0.02 | 0.07 | 0.00 | 0.07 | 0.02 | 0.03 | 0.03 |
| Renal agenesis and dysgenesis | 0.34 | 0.39 | 0.40 | 0.39 | 0.57 | 0.59 | 0.44 | 0.45 |
| Cystic kidney | 0.38 | 0.58 | 0.77 | 0.36 | 0.52 | 0.49 | 0.59 | 0.52 |
| Exstrophy of urinary bladder | 0.03 | 0.02 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.01 |
| Polydactyly | 0.96 | 1.36 | 1.05 | 1.08 | 1.08 | 0.89 | 0.92 | 1.05 |
| Reduction deformities of lower limbs | 0.05 | 0.12 | 0.05 | 0.03 | 0.13 | 0.15 | 0.03 | 0.08 |
| Reduction deformities, unspecified limb | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| Reduction deformities of upper limbs | 0.11 | 0.20 | 0.12 | 0.16 | 0.10 | 0.20 | 0.00 | 0.13 |
| Syndactyly | 0.34 | 0.48 | 0.33 | 0.51 | 0.37 | 0.42 | 0.29 | 0.39 |
| Anomalies of diaphragm | 0.20 | 0.19 | 0.19 | 0.26 | 0.22 | 0.34 | 0.27 | 0.24 |
| Anomalies of abdominal wall | 0.34 | 0.60 | 0.52 | 0.62 | 0.39 | 0.52 | 0.42 | 0.49 |
| Patau syndrome (Trisomy 13) | 0.03 | 0.05 | 0.02 | 0.02 | 0.05 | 0.05 | 0.03 | 0.04 |
| Edwards syndrome (Trisomy 18) | 0.07 | 0.09 | 0.09 | 0.07 | 0.05 | 0.10 | 0.13 | 0.08 |
| Down syndrome (Trisomy 21) | 0.82 | 0.87 | 1.00 | 0.77 | 0.62 | 0.84 | 0.82 | 0.82 |
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| Neural tube defects | 0.41 | 0.29 | 0.54 | 0.44 | 0.17 | 0.42 | 0.17 | 0.35 |
| Congenital heart defects | 10.90 | 14.83 | 12.84 | 12.17 | 13.36 | 13.05 | 13.24 | 12.95 |
| All chromosomal anomlaies | 1.49 | 1.62 | 1.80 | 1.31 | 1.13 | 1.53 | 1.38 | 1.47 |
| All malformations | 71.79 | 98.64 | 102.49 | 92.14 | 89.42 | 86.83 | 73.98 | 88.08 |
| source: New Zealand Birth Defects Registry, July 2019 |  |  |  |  |  |