

Texas Birth Defects Registry (TBDR) Annual Report

Table 1. Overall Prevalence of Selected Birth Defects, Texas, 1999–2020

| Birth Defect (Body System) | Cases (count) | Prevalence (rate) | Confidence Interval (95% for Prevalence) |
|---|------------------|----------------------|---|
| Central Nervous System | | | |
| Anencephaly | 2,106 | 2.49 | 2.39 – 2.60 |
| Spina bifida (without anencephaly) | 3,138 | 3.72 | 3.59 – 3.85 |
| Encephalocele | 814 | 0.96 | 0.90 – 1.03 |
| Microcephaly, severe (head circ. <3 rd percentile) | 4,287 | 5.08 | 4.92 – 5.23 |
| Holoprosencephaly | 885 | 1.05 | 0.98 – 1.12 |
| Hydrocephaly (without spina bifida) | 6,802 | 8.05 | 7.86 – 8.25 |
| Eye and Ear | | | |
| Anophthalmia | 246 | 0.29 | 0.25 – 0.33 |
| Microphthalmia | 2,308 | 2.73 | 2.62 – 2.84 |
| Cataract | 1,630 | 1.93 | 1.84 – 2.02 |
| Anotia or microtia | 3,003 | 3.56 | 3.43 – 3.68 |
| Cardiac and Circulatory | | | |
| Common truncus | 645 | 0.76 | 0.70 – 0.82 |
| Transposition of the great vessels | 2,842 | 3.37 | 3.24 – 3.49 |
| Double outlet right ventricle | 1,948 | 2.31 | 2.20 – 2.41 |
| Tetralogy of Fallot | 3,337 | 3.95 | 3.82 – 4.09 |
| Ventricular septal defect | 51,547 | 61.04 | 60.51 – 61.57 |
| Atrial septal defect | 59,996 | 71.04 | 70.48 – 71.61 |
| Atrioventricular septal defect (endocardial cushion defect) | 3,681 | 4.36 | 4.22 – 4.50 |
| Pulmonary valve atresia or stenosis | 8,400 | 9.95 | 9.73 – 10.16 |
| Tricuspid valve atresia or stenosis | 1,591 | 1.88 | 1.79 – 1.98 |
| Ebstein anomaly | 639 | 0.76 | 0.70 – 0.82 |
| Aortic valve stenosis | 2,030 | 2.40 | 2.30 – 2.51 |
| Hypoplastic left heart syndrome | 1,897 | 2.25 | 2.15 – 2.35 |
| Patent ductus arteriosus | 49,273 | 58.35 | 57.83 – 58.86 |
| Coarctation of the aorta | 4,468 | 5.29 | 5.14 – 5.45 |
| Respiratory | | | |
| Choanal atresia or stenosis | 1,076 | 1.27 | 1.20 – 1.35 |
| Agenesis, aplasia, or hypoplasia of the lung | 2,516 | 2.98 | 2.86 – 3.10 |
| Oral Clefts | | | |
| Cleft palate alone (without cleft lip) | 5,013 | 5.94 | 5.77 – 6.10 |
| Cleft lip (with or without cleft palate) | 9,075 | 10.75 | 10.53 – 10.97 |
| Gastrointestinal | | | |
| Tracheoesophageal fistula/esophageal atresia | 1,846 | 2.19 | 2.09 – 2.29 |
| Pyloric stenosis | 13,588 | 16.09 | 15.82 – 16.36 |
| Stenosis or atresia of the small intestine | 2,875 | 3.40 | 3.28 – 3.53 |
| Stenosis or atresia of large intestine, rectum, anal canal | 4,495 | 5.32 | 5.17 – 5.48 |
| Hirschsprung disease | 1,213 | 1.44 | 1.36 – 1.52 |
| Biliary atresia | 603 | 0.71 | 0.66 – 0.77 |

| Birth Defect (Body System) | Cases (count) | Prevalence (rate) | Confidence Interval (95% for Prevalence) |
|--|------------------|----------------------|---|
| Genitourinary | | | |
| Hypospadias (among males) | 26,799 | 62.09 | 61.35 – 62.84 |
| Epispadias | 820 | 0.97 | 0.90 – 1.04 |
| Renal agenesis or dysgenesis | 5,468 | 6.47 | 6.30 – 6.65 |
| Bladder exstrophy | 148 | 0.18 | 0.15 – 0.20 |
| Musculoskeletal | | | |
| Congenital hip dislocation (without hip dysplasia) | 2,122 | 2.51 | 2.41 – 2.62 |
| Talipes equinovarus (clubfoot) | 14,014 | 16.59 | 16.32 – 16.87 |
| Reduction defects of the upper limbs | 3,501 | 4.15 | 4.01 – 4.28 |
| Reduction defects of the lower limbs | 1,658 | 1.96 | 1.87 – 2.06 |
| Craniosynostosis | 4,716 | 5.58 | 5.43 – 5.74 |
| Achondroplasia | 307 | 0.36 | 0.32 – 0.40 |
| Diaphragmatic hernia | 2,359 | 2.79 | 2.68 – 2.91 |
| Omphalocele | 1,821 | 2.16 | 2.06 – 2.26 |
| Gastroschisis | 4,316 | 5.11 | 4.96 – 5.26 |
| Chromosomal | | | |
| Trisomy 21 (Down syndrome) | 11,694 | 13.85 | 13.60 – 14.10 |
| Trisomy 13 (Patau syndrome) | 970 | 1.15 | 1.08 – 1.22 |
| Trisomy 18 (Edwards syndrome) | 2,125 | 2.52 | 2.41 – 2.62 |
| Infants & fetuses with regular reportable birth defects | 419,733 | 497.03 | 495.53 – 498.54 |

Prevalence (rate) is expressed as the number of cases per 10,000 live births.

Please see the Methods section of the Annual Report for additional information:

<https://www.dshs.texas.gov/sites/default/files/birthdefects/annualreport/1999-2020-TBDR-Methods.pdf>

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