

## Texas Birth Defects Registry, Report of Defects Among 2000-2009 Deliveries

Table 5. Prevalence of Selected Birth Defects by Sex of Infant or Fetus, Texas, 2000-2009

| Defect   | Sex    | Cases | Prevalence <sup>†</sup> | 95% Confidence Interval for Prevalence |       |
|--|--------|-------|-------------------------|--|-------|
|  |        |       |                         |  |       |
| <b>Central Nervous System</b>  |        |       |                         |  |       |
| Anencephaly  | Male   | 439   | 2.23                    | 2.02 -                                 | 2.43  |
|  | Female | 453   | 2.40                    | 2.18 -                                 | 2.62  |
| Spina bifida without anencephaly   | Male   | 710   | 3.60                    | 3.34 -                                 | 3.86  |
|  | Female | 663   | 3.51                    | 3.25 -                                 | 3.78  |
| Encephalocele  | Male   | 164   | 0.83                    | 0.70 -                                 | 0.96  |
|  | Female | 177   | 0.94                    | 0.80 -                                 | 1.08  |
| Holoprosencephaly *<br>(p=0.0433)  | Male   | 193   | 0.98                    | 0.84 -                                 | 1.12  |
|  | Female | 225   | 1.19                    | 1.04 -                                 | 1.35  |
| Hydrocephaly without spina bifida *<br>(p<0.0001)                        | Male   | 1465  | 7.43                    | 7.05 -                                 | 7.81  |
|  | Female | 1187  | 6.29                    | 5.93 -                                 | 6.65  |
| <b>Eye and Ear</b>   |        |       |                         |  |       |
| Anophthalmia   | Male   | 61    | 0.31                    | 0.24 -                                 | 0.40  |
|  | Female | 58    | 0.31                    | 0.23 -                                 | 0.40  |
| Microphthalmia *<br>(p=0.0170)   | Male   | 499   | 2.53                    | 2.31 -                                 | 2.75  |
|  | Female | 553   | 2.93                    | 2.69 -                                 | 3.18  |
| Cataract   | Male   | 349   | 1.77                    | 1.58 -                                 | 1.96  |
|  | Female | 372   | 1.97                    | 1.77 -                                 | 2.17  |
| Anotia or microtia *<br>(p<0.0001)                                       | Male   | 702   | 3.56                    | 3.30 -                                 | 3.82  |
|  | Female | 510   | 2.70                    | 2.47 -                                 | 2.94  |
| <b>Cardiac and Circulatory</b>   |        |       |                         |  |       |
| Common truncus   | Male   | 149   | 0.76                    | 0.63 -                                 | 0.88  |
|  | Female | 159   | 0.84                    | 0.71 -                                 | 0.97  |
| Transposition of the great vessels *<br>(p<0.0001)                       | Male   | 1197  | 6.07                    | 5.73 -                                 | 6.41  |
|  | Female | 730   | 3.87                    | 3.59 -                                 | 4.15  |
| Tetralogy of Fallot *<br>(p=0.0012)                                      | Male   | 767   | 3.89                    | 3.61 -                                 | 4.16  |
|  | Female | 616   | 3.27                    | 3.01 -                                 | 3.52  |
| Ventricular septal defect *<br>(p<0.0001)                                | Male   | 9739  | 49.38                   | 48.40 -                                | 50.36 |
|  | Female | 11381 | 60.33                   | 59.22 -                                | 61.44 |
| Atrial septal defect   | Male   | 11029 | 55.92                   | 54.88 -                                | 56.96 |
|  | Female | 10396 | 55.11                   | 54.05 -                                | 56.17 |
| Atrioventricular septal defect (endocardial cushion defect) * (p=0.0196) | Male   | 786   | 3.99                    | 3.71 -                                 | 4.26  |
|  | Female | 844   | 4.47                    | 4.17 -                                 | 4.78  |
| Pulmonary valve atresia or stenosis *<br>(p<0.0001)                      | Male   | 1602  | 8.12                    | 7.72 -                                 | 8.52  |
|  | Female | 1801  | 9.55                    | 9.11 -                                 | 9.99  |
| Tricuspid valve atresia or stenosis                                      | Male   | 343   | 1.74                    | 1.56 -                                 | 1.92  |
|  | Female | 315   | 1.67                    | 1.49 -                                 | 1.85  |
| Ebstein anomaly  | Male   | 132   | 0.67                    | 0.56 -                                 | 0.78  |
|  | Female | 133   | 0.71                    | 0.59 -                                 | 0.82  |
| Aortic valve stenosis *<br>(p<0.0001)                                    | Male   | 571   | 2.90                    | 2.66 -                                 | 3.13  |
|  | Female | 333   | 1.77                    | 1.58 -                                 | 1.95  |
| Hypoplastic left heart syndrome *<br>(p<0.0001)                          | Male   | 496   | 2.51                    | 2.29 -                                 | 2.74  |
|  | Female | 311   | 1.65                    | 1.47 -                                 | 1.83  |
| Patent ductus arteriosus   | Male   | 10268 | 52.06                   | 51.05 -                                | 53.07 |
|  | Female | 9765  | 51.76                   | 50.74 -                                | 52.79 |
| Coarctation of the aorta *<br>(p<0.0001)                                 | Male   | 1126  | 5.71                    | 5.38 -                                 | 6.04  |
|  | Female | 785   | 4.16                    | 3.87 -                                 | 4.45  |

## Texas Birth Defects Registry, Report of Defects Among 2000-2009 Deliveries

Table 5. Prevalence of Selected Birth Defects by Sex of Infant or Fetus, Texas, 2000-2009

| Defect   | Sex    | Cases | Prevalence <sup>†</sup> | 95% Confidence Interval for Prevalence |       |
|--|--------|-------|-------------------------|--|-------|
|  |        |       |                         |  |       |
| <b>Respiratory</b>   |        |       |                         |  |       |
| Choanal atresia or stenosis  | Male   | 221   | 1.12                    | 0.97 -                                 | 1.27  |
|  | Female | 238   | 1.26                    | 1.10 -                                 | 1.42  |
| Agenesis, aplasia, or hypoplasia of the lung *<br>(p<0.0001)               | Male   | 674   | 3.42                    | 3.16 -                                 | 3.68  |
|  | Female | 515   | 2.73                    | 2.49 -                                 | 2.97  |
| <b>Oral Clefts</b>   |        |       |                         |  |       |
| Cleft palate alone (without cleft lip) *<br>(p<0.0001)                     | Male   | 1005  | 5.10                    | 4.78 -                                 | 5.41  |
|  | Female | 1271  | 6.74                    | 6.37 -                                 | 7.11  |
| Cleft lip with or without cleft palate *<br>(p<0.0001)                     | Male   | 2566  | 13.01                   | 12.51 -                                | 13.51 |
|  | Female | 1581  | 8.38                    | 7.97 -                                 | 8.79  |
| <b>Gastrointestinal</b>  |        |       |                         |  |       |
| Tracheoesophageal fistula/esophageal atresia                               | Male   | 424   | 2.15                    | 1.95 -                                 | 2.35  |
|  | Female | 363   | 1.92                    | 1.73 -                                 | 2.12  |
| Pyloric stenosis *<br>(p<0.0001)   | Male   | 6103  | 30.94                   | 30.17 -                                | 31.72 |
|  | Female | 1296  | 6.87                    | 6.50 -                                 | 7.24  |
| Stenosis or atresia of the small intestine *<br>(p=0.0103)                 | Male   | 596   | 3.02                    | 2.78 -                                 | 3.26  |
|  | Female | 659   | 3.49                    | 3.23 -                                 | 3.76  |
| Stenosis or atresia of large intestine, rectum, or anal canal * (p=0.0132) | Male   | 1075  | 5.45                    | 5.12 -                                 | 5.78  |
|  | Female | 920   | 4.88                    | 4.56 -                                 | 5.19  |
| Hirschsprung disease *<br>(p<0.0001)                                       | Male   | 395   | 2.00                    | 1.81 -                                 | 2.20  |
|  | Female | 119   | 0.63                    | 0.52 -                                 | 0.74  |
| Biliary atresia *<br>(p=0.0117)  | Male   | 123   | 0.62                    | 0.51 -                                 | 0.73  |
|  | Female | 159   | 0.84                    | 0.71 -                                 | 0.97  |
| <b>Genitourinary</b>   |        |       |                         |  |       |
| Hypospadias *<br>(p<0.0001)  | Male   | 10903 | 55.28                   | 54.24 -                                | 56.32 |
|  | Female | 0     | 0.00                    | 0.00 -                                 | 0.02  |
| Epispadias *<br>(p<0.0001)   | Male   | 325   | 1.65                    | 1.47 -                                 | 1.83  |
|  | Female | 4     | 0.02                    | 0.01 -                                 | 0.05  |
| Renal agenesis or dysgenesis *<br>(p<0.0001)                               | Male   | 1294  | 6.56                    | 6.20 -                                 | 6.92  |
|  | Female | 841   | 4.46                    | 4.16 -                                 | 4.76  |
| Bladder exstrophy  | Male   | 43    | 0.22                    | 0.16 -                                 | 0.29  |
|  | Female | 32    | 0.17                    | 0.12 -                                 | 0.24  |
| <b>Musculoskeletal</b>   |        |       |                         |  |       |
| Congenital hip dislocation *<br>(p<0.0001)                                 | Male   | 460   | 2.33                    | 2.12 -                                 | 2.55  |
|  | Female | 1222  | 6.48                    | 6.11 -                                 | 6.84  |
| Talipes equinovarus / clubfoot *<br>(p<0.0001)                             | Male   | 3529  | 17.89                   | 17.30 -                                | 18.48 |
|  | Female | 2232  | 11.83                   | 11.34 -                                | 12.32 |
| Reduction defects of the upper limbs *<br>(p<0.0001)                       | Male   | 886   | 4.49                    | 4.20 -                                 | 4.79  |
|  | Female | 675   | 3.58                    | 3.31 -                                 | 3.85  |
| Reduction defects of the lower limbs                                       | Male   | 388   | 1.97                    | 1.77 -                                 | 2.16  |
|  | Female | 331   | 1.75                    | 1.57 -                                 | 1.94  |
| Craniosynostosis *<br>(p<0.0001)   | Male   | 1151  | 5.84                    | 5.50 -                                 | 6.17  |
|  | Female | 634   | 3.36                    | 3.10 -                                 | 3.62  |
| Achondroplasia   | Male   | 60    | 0.30                    | 0.23 -                                 | 0.39  |
|  | Female | 58    | 0.31                    | 0.23 -                                 | 0.40  |
| Diaphragmatic hernia *<br>(p=0.0022)                                       | Male   | 584   | 2.96                    | 2.72 -                                 | 3.20  |
|  | Female | 462   | 2.45                    | 2.23 -                                 | 2.67  |

Texas Birth Defects Registry, Report of Defects Among 2000-2009 Deliveries

Table 5. Prevalence of Selected Birth Defects by Sex of Infant or Fetus, Texas, 2000-2009

| <b>Defect</b>  | <b>Sex</b> | <b>Cases</b> | <b>Prevalence<sup>†</sup></b> | <b>95% Confidence Interval for Prevalence</b> |        |
|--|------------|--------------|-------------------------------|---|--------|
| Omphalocele *<br>(p=0.0101)  | Male       | 434          | 2.20                          | 1.99 -  | 2.41   |
|  | Female     | 345          | 1.83                          | 1.64 -  | 2.02   |
| Gastroschisis  | Male       | 1021         | 5.18                          | 4.86 -  | 5.49   |
|  | Female     | 903          | 4.79                          | 4.47 -  | 5.10   |
| <b>Chromosomal</b>   |            |              |                               |   |        |
| Trisomy 21 (Down syndrome) *<br>(p=0.0007)                                 | Male       | 2692         | 13.65                         | 13.13 -                                       | 14.16  |
|  | Female     | 2341         | 12.41                         | 11.91 -                                       | 12.91  |
| Trisomy 13 (Patau syndrome)  | Male       | 228          | 1.16                          | 1.01 -  | 1.31   |
|  | Female     | 211          | 1.12                          | 0.97 -  | 1.27   |
| Trisomy 18 (Edwards syndrome) *<br>(p<0.0001)                              | Male       | 405          | 2.05                          | 1.85 -  | 2.25   |
|  | Female     | 518          | 2.75                          | 2.51 -  | 2.98   |
| <b>Infants and fetuses with any monitored birth defect * (p&lt;0.0001)</b> | Male       | 94516        | 479.23                        | 476.17 -                                      | 482.28 |
|  | Female     | 65731        | 348.43                        | 345.77 -                                      | 351.10 |

<sup>†</sup> cases per 10,000 live births

\* statistically significant by Poisson regression (p<0.05)