

Texas Birth Defects Registry (TBDR) Annual Report

Table 5. Prevalence of Selected Birth Defects by Infant/Fetal Sex, Texas, 1999–2021

Birth Defect (Body System)	Sex	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System				
Anencephaly*	Male	911	2.02	1.89 – 2.15
	Female	1,080	2.50	2.36 – 2.65
Spina bifida (without anencephaly)*	Male	1,596	3.54	3.37 – 3.71
	Female	1,642	3.81	3.62 – 3.99
Encephalocele*	Male	398	0.88	0.80 – 0.97
	Female	437	1.01	0.92 – 1.11
Microcephaly, severe (head circumference <3 rd percentile)*	Male	2,011	4.46	4.27 – 4.66
	Female	2,561	5.94	5.71 – 6.17
Holoprosencephaly*	Male	385	0.85	0.77 – 0.94
	Female	522	1.21	1.11 – 1.31
Hydrocephaly (without spina bifida)*	Male	4,033	8.95	8.67 – 9.22
	Female	3,120	7.24	6.98 – 7.49
Eye and Ear				
Anophthalmia	Male	113	0.25	0.20 – 0.30
	Female	134	0.31	0.26 – 0.36
Microphthalmia*	Male	1,127	2.50	2.35 – 2.65
	Female	1,260	2.92	2.76 – 3.08
Cataract	Male	876	1.94	1.81 – 2.07
	Female	846	1.96	1.83 – 2.09
Anotia or microtia*	Male	1,808	4.01	3.83 – 4.20
	Female	1,367	3.17	3.00 – 3.34
Cardiac and Circulatory				
Common truncus	Male	332	0.74	0.66 – 0.82
	Female	340	0.79	0.70 – 0.87
Transposition of the great vessels*	Male	1,921	4.26	4.07 – 4.45
	Female	1,015	2.35	2.21 – 2.50
Double outlet right ventricle*	Male	1,176	2.61	2.46 – 2.76
	Female	870	2.02	1.88 – 2.15
Tetralogy of Fallot*	Male	1,901	4.22	4.03 – 4.41
	Female	1,580	3.66	3.48 – 3.85
Ventricular septal defect*	Male	24,802	55.03	54.34 – 55.71
	Female	29,598	68.65	67.87 – 69.43
Atrial septal defect*	Male	32,073	71.16	70.38 – 71.94
	Female	31,680	73.48	72.67 – 74.29
Atrioventricular septal defect (endocardial cushion defect)*	Male	1,840	4.08	3.90 – 4.27
	Female	2,004	4.65	4.44 – 4.85
Pulmonary valve atresia or stenosis*	Male	4,059	9.01	8.73 – 9.28
	Female	4,747	11.01	10.70 – 11.32
Tricuspid valve atresia or stenosis	Male	896	1.99	1.86 – 2.12
	Female	788	1.83	1.70 – 1.96
Ebstein anomaly	Male	341	0.76	0.68 – 0.84
	Female	335	0.78	0.69 – 0.86

Birth Defect (Body System)	Sex	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Aortic valve stenosis*	Male	1,321	2.93	2.77 – 3.09
	Female	807	1.87	1.74 – 2.00
Hypoplastic left heart syndrome*	Male	1,191	2.64	2.49 – 2.79
	Female	767	1.78	1.65 – 1.90
Patent ductus arteriosus	Male	25,757	57.15	56.45 – 57.85
	Female	24,553	56.95	56.24 – 57.66
Coarctation of the aorta*	Male	2,736	6.07	5.84 – 6.30
	Female	1,957	4.54	4.34 – 4.74
Respiratory				
Choanal atresia or stenosis	Male	567	1.26	1.15 – 1.36
	Female	571	1.32	1.22 – 1.43
Agenesis, aplasia, or hypoplasia of the lung*	Male	1,449	3.21	3.05 – 3.38
	Female	1,117	2.59	2.44 – 2.74
Oral Clefts				
Cleft palate alone (without cleft lip)*	Male	2,348	5.21	5.00 – 5.42
	Female	2,888	6.70	6.45 – 6.94
Cleft lip (with or without cleft palate)*	Male	5,717	12.68	12.36 – 13.01
	Female	3,729	8.65	8.37 – 8.93
Gastrointestinal				
Tracheoesophageal fistula/esophageal atresia	Male	1,026	2.28	2.14 – 2.42
	Female	914	2.12	1.98 – 2.26
Pyloric stenosis*	Male	11,606	25.75	25.28 – 26.22
	Female	2,399	5.56	5.34 – 5.79
Stenosis or atresia of the small intestine*	Male	1,465	3.25	3.08 – 3.42
	Female	1,566	3.63	3.45 – 3.81
Stenosis or atresia of large intestine, rectum, or anal canal*	Male	2,563	5.69	5.47 – 5.91
	Female	2,063	4.78	4.58 – 4.99
Hirschsprung disease*	Male	969	2.15	2.01 – 2.29
	Female	298	0.69	0.61 – 0.77
Biliary atresia*	Male	258	0.57	0.50 – 0.64
	Female	365	0.85	0.76 – 0.93
Genitourinary				
Hypospadias (among males)	Male	28,118	62.39	61.66 – 63.12
	Female	0	0.00	0.00 – 0.01
Renal agenesis or dysgenesis*	Male	3,371	7.48	7.23 – 7.73
	Female	2,367	5.49	5.27 – 5.71
Bladder exstrophy	Male	79	0.18	0.14 – 0.22
	Female	72	0.17	0.13 – 0.21
Musculoskeletal				
Congenital hip dislocation (without hip dysplasia)*	Male	667	1.48	1.37 – 1.59
	Female	1,502	3.48	3.31 – 3.66
Talipes equinovarus (clubfoot)*	Male	8,999	19.97	19.55 – 20.38
	Female	5,724	13.28	12.93 – 13.62
Reduction defects of the upper limbs*	Male	1,986	4.41	4.21 – 4.60
	Female	1,635	3.79	3.61 – 3.98

Birth Defect (Body System)	Sex	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Reduction defects of the lower limbs*	Male	919	2.04	1.91 – 2.17
	Female	789	1.83	1.70 – 1.96
Craniosynostosis*	Male	3,231	7.17	6.92 – 7.42
	Female	1,757	4.08	3.88 – 4.27
Achondroplasia	Male	157	0.35	0.29 – 0.40
	Female	165	0.38	0.32 – 0.44
Diaphragmatic hernia*	Male	1,406	3.12	2.96 – 3.28
	Female	1,076	2.50	2.35 – 2.64
Omphalocele*	Male	1,047	2.32	2.18 – 2.46
	Female	804	1.86	1.74 – 1.99
Gastroschisis	Male	2,315	5.14	4.93 – 5.35
	Female	2,136	4.95	4.74 – 5.16
Chromosomal				
Trisomy 21 (Down syndrome)*	Male	6,545	14.52	14.17 – 14.87
	Female	5,661	13.13	12.79 – 13.47
Trisomy 13 (Patau syndrome)	Male	514	1.14	1.04 – 1.24
	Female	475	1.10	1.00 – 1.20
Trisomy 18 (Edwards syndrome)*	Male	923	2.05	1.92 – 2.18
	Female	1,217	2.82	2.66 – 2.98
Infants and fetuses with regular reportable birth defects*	Male	265,696	589.51	587.27 – 591.75
	Female	180,291	418.17	416.24 – 420.10

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

*Statistically significant difference in prevalence between sexes [$p < 0.05$].

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

<https://www.dshs.texas.gov/sites/default/files/birthdefects/annualreport/1999-2021-TBDR-Methods.pdf>

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