

Texas Birth Defects Registry (TBDR) Annual Report
Table R1. Prevalence of Selected Birth Defects, Region 1, 1999–2020

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	54	1.98	1.49 – 2.59
Spina bifida without anencephaly	95	3.49	2.82 – 4.26
Encephalocele	29	1.06	0.71 – 1.53
Microcephaly, severe (head circ. <3 rd percentile)	95	3.49	2.82 – 4.26
Holoprosencephaly	39	1.43	1.02 – 1.96
Hydrocephaly without spina bifida	227	8.33	7.25 – 9.42
Eye and Ear			
Anophthalmia	8	0.29	0.13 – 0.58
Microphthalmia	67	2.46	1.91 – 3.12
Cataract	44	1.61	1.17 – 2.17
Anotia or microtia	98	3.60	2.92 – 4.38
Cardiac and Circulatory			
Common truncus	18	0.66	0.39 – 1.04
Transposition of the great vessels	85	3.12	2.49 – 3.86
Double outlet right ventricle	62	2.28	1.74 – 2.92
Tetralogy of Fallot	108	3.96	3.22 – 4.71
Ventricular septal defect	1,607	58.98	56.10 – 61.86
Atrial septal defect	2,637	96.78	93.09 – 100.48
Atrioventricular septal defect (endocardial cushion defect)	135	4.95	4.12 – 5.79
Pulmonary valve atresia or stenosis	202	7.41	6.39 – 8.44
Tricuspid valve atresia or stenosis	66	2.42	1.87 – 3.08
Ebstein anomaly	21	0.77	0.48 – 1.18
Aortic valve stenosis	53	1.95	1.46 – 2.54
Hypoplastic left heart syndrome	67	2.46	1.91 – 3.12
Patent ductus arteriosus	1,959	71.90	68.72 – 75.08
Coarctation of the aorta	184	6.75	5.78 – 7.73
Respiratory			
Choanal atresia or stenosis	32	1.17	0.80 – 1.66
Agenesis, aplasia, or hypoplasia of the lung	57	2.09	1.58 – 2.71
Oral Clefts			
Cleft palate alone (without cleft lip)	164	6.02	5.10 – 6.94
Cleft lip with or without cleft palate	367	13.47	12.09 – 14.85
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	60	2.20	1.68 – 2.83
Pyloric stenosis	468	17.18	15.62 – 18.73
Stenosis or atresia of the small intestine	98	3.60	2.92 – 4.38
Stenosis or atresia of large intestine, rectum, or anal	156	5.73	4.83 – 6.62
Hirschsprung disease	36	1.32	0.93 – 1.83
Biliary atresia	21	0.77	0.48 – 1.18

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Genitourinary			
Hypospadias (among males)	788	56.62	52.66 – 60.57
Epispadias	25	0.92	0.59 – 1.35
Renal agenesis or dysgenesis	198	7.27	6.25 – 8.28
Bladder exstrophy	1	0.04	0.00 – 0.20
Musculoskeletal			
Congenital hip dislocation without hip dysplasia	63	2.31	1.78 – 2.96
Talipes equinovarus/clubfoot	599	21.98	20.22 – 23.75
Reduction defects of the upper limbs	122	4.48	3.68 – 5.27
Reduction defects of the lower limbs	66	2.42	1.87 – 3.08
Craniosynostosis	193	7.08	6.08 – 8.08
Achondroplasia	14	0.51	0.28 – 0.86
Diaphragmatic hernia	85	3.12	2.49 – 3.86
Omphalocele	42	1.54	1.11 – 2.08
Gastroschisis	176	6.46	5.51 – 7.41
Chromosomal			
Trisomy 21 (Down syndrome)	328	12.04	10.74 – 13.34
Trisomy 13 (Patau syndrome)	33	1.21	0.83 – 1.70
Trisomy 18 (Edwards syndrome)	56	2.06	1.55 – 2.67
Infants & fetuses with regular reportable birth defects	13,376	490.93	482.61 – 499.25

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>

Prepared by: Texas Birth Defects Registry, Birth Defects Epidemiology and Surveillance Branch, Texas Department of State Health Services, February 2024.

Texas Birth Defects Registry (TBDR) Annual Report
Table R2. Prevalence of Selected Birth Defects, Region 2, 1999–2020

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	43	2.74	1.98 – 3.69
Spina bifida without anencephaly	75	4.78	3.76 – 5.99
Encephalocele	14	0.89	0.49 – 1.50
Microcephaly, severe (head circ. <3 rd percentile)	49	3.12	2.31 – 4.13
Holoprosencephaly	15	0.96	0.53 – 1.58
Hydrocephaly without spina bifida	121	7.71	6.34 – 9.08
Eye and Ear			
Anophthalmia	2	0.13	0.02 – 0.46
Microphthalmia	42	2.68	1.93 – 3.62
Cataract	28	1.78	1.19 – 2.58
Anotia or microtia	49	3.12	2.31 – 4.13
Cardiac and Circulatory			
Common truncus	14	0.89	0.49 – 1.50
Transposition of the great vessels	59	3.76	2.86 – 4.85
Double outlet right ventricle	36	2.29	1.61 – 3.18
Tetralogy of Fallot	52	3.31	2.47 – 4.34
Ventricular septal defect	893	56.89	53.16 – 60.63
Atrial septal defect	1,469	93.59	88.81 – 98.38
Atrioventricular septal defect (endocardial cushion defect)	65	4.14	3.20 – 5.28
Pulmonary valve atresia or stenosis	156	9.94	8.38 – 11.50
Tricuspid valve atresia or stenosis	33	2.10	1.45 – 2.95
Ebstein anomaly	11	0.70	0.35 – 1.25
Aortic valve stenosis	39	2.48	1.77 – 3.40
Hypoplastic left heart syndrome	50	3.19	2.36 – 4.20
Patent ductus arteriosus	820	52.24	48.67 – 55.82
Coarctation of the aorta	84	5.35	4.27 – 6.63
Respiratory			
Choanal atresia or stenosis	14	0.89	0.49 – 1.50
Agenesis, aplasia, or hypoplasia of the lung	28	1.78	1.19 – 2.58
Oral Clefts			
Cleft palate alone (without cleft lip)	115	7.33	5.99 – 8.67
Cleft lip with or without cleft palate	209	13.32	11.51 – 15.12
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	39	2.48	1.77 – 3.40
Pyloric stenosis	336	21.41	19.12 – 23.70
Stenosis or atresia of the small intestine	63	4.01	3.08 – 5.14
Stenosis or atresia of large intestine, rectum, anal canal	91	5.80	4.67 – 7.12
Hirschsprung disease	25	1.59	1.03 – 2.35
Biliary atresia	10	0.64	0.31 – 1.17

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Genitourinary			
Hypospadias (among males)	486	60.44	55.07 – 65.81
Epispadias	8	0.51	0.22 – 1.00
Renal agenesis or dysgenesis	72	4.59	3.59 – 5.78
Bladder exstrophy	3	0.19	0.04 – 0.56
Musculoskeletal			
Congenital hip dislocation without hip dysplasia	37	2.36	1.66 – 3.25
Talipes equinovarus/clubfoot	288	18.35	16.23 – 20.47
Reduction defects of the upper limbs	66	4.20	3.25 – 5.35
Reduction defects of the lower limbs	22	1.40	0.88 – 2.12
Craniosynostosis	118	7.52	6.16 – 8.87
Achondroplasia	9	0.57	0.26 – 1.09
Diaphragmatic hernia	48	3.06	2.25 – 4.05
Omphalocele	32	2.04	1.39 – 2.88
Gastroschisis	109	6.94	5.64 – 8.25
Chromosomal			
Trisomy 21 (Down syndrome)	197	12.55	10.80 – 14.30
Trisomy 13 (Patau syndrome)	16	1.02	0.58 – 1.66
Trisomy 18 (Edwards syndrome)	27	1.72	1.13 – 2.50
Infants & fetuses with regular reportable birth defects	6,892	439.10	428.73 – 449.46

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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Texas Birth Defects Registry (TBDR) Annual Report
Table R3. Prevalence of Selected Birth Defects, Region 3, 1999–2020

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	634	2.82	2.60 – 3.03
Spina bifida without anencephaly	873	3.88	3.62 – 4.13
Encephalocele	247	1.10	0.96 – 1.23
Microcephaly, severe (head circ. <3 rd percentile)	1,676	7.44	7.09 – 7.80
Holoprosencephaly	232	1.03	0.90 – 1.16
Hydrocephaly without spina bifida	1,957	8.69	8.31 – 9.08
Eye and Ear			
Anophthalmia	75	0.33	0.26 – 0.42
Microphthalmia	638	2.83	2.61 – 3.05
Cataract	644	2.86	2.64 – 3.08
Anotia or microtia	836	3.71	3.46 – 3.96
Cardiac and Circulatory			
Common truncus	145	0.64	0.54 – 0.75
Transposition of the great vessels	787	3.49	3.25 – 3.74
Double outlet right ventricle	537	2.38	2.18 – 2.59
Tetralogy of Fallot	872	3.87	3.62 – 4.13
Ventricular septal defect	13,760	61.10	60.08 – 62.13
Atrial septal defect	15,510	68.88	67.79 – 69.96
Atrioventricular septal defect (endocardial cushion defect)	1,078	4.79	4.50 – 5.07
Pulmonary valve atresia or stenosis	2,459	10.92	10.49 – 11.35
Tricuspid valve atresia or stenosis	433	1.92	1.74 – 2.10
Ebstein anomaly	137	0.61	0.51 – 0.71
Aortic valve stenosis	517	2.30	2.10 – 2.49
Hypoplastic left heart syndrome	556	2.47	2.26 – 2.67
Patent ductus arteriosus	12,864	57.13	56.14 – 58.11
Coarctation of the aorta	1,125	5.00	4.70 – 5.29
Respiratory			
Choanal atresia or stenosis	341	1.51	1.35 – 1.68
Agenesis, aplasia, or hypoplasia of the lung	615	2.73	2.52 – 2.95
Oral Clefts			
Cleft palate alone (without cleft lip)	1,436	6.38	6.05 – 6.71
Cleft lip with or without cleft palate	2,441	10.84	10.41 – 11.27
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	531	2.36	2.16 – 2.56
Pyloric stenosis	3,566	15.84	15.32 – 16.36
Stenosis or atresia of the small intestine	815	3.62	3.37 – 3.87
Stenosis or atresia of large intestine, rectum, anal canal	1,115	4.95	4.66 – 5.24
Hirschsprung disease	350	1.55	1.39 – 1.72
Biliary atresia	168	0.75	0.63 – 0.86

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Genitourinary			
Hypospadias (among males)	8,084	70.12	68.59 – 71.65
Epispadias	214	0.95	0.82 – 1.08
Renal agenesis or dysgenesis	1,512	6.71	6.38 – 7.05
Bladder exstrophy	44	0.20	0.14 – 0.26
Musculoskeletal			
Congenital hip dislocation without hip dysplasia	614	2.73	2.51 – 2.94
Talipes equinovarus/clubfoot	3,830	17.01	16.47 – 17.55
Reduction defects of the upper limbs	1,050	4.66	4.38 – 4.94
Reduction defects of the lower limbs	469	2.08	1.89 – 2.27
Craniosynostosis	1,441	6.40	6.07 – 6.73
Achondroplasia	92	0.41	0.33 – 0.50
Diaphragmatic hernia	628	2.79	2.57 – 3.01
Omphalocele	550	2.44	2.24 – 2.65
Gastroschisis	1,020	4.53	4.25 – 4.81
Chromosomal			
Trisomy 21 (Down syndrome)	3,430	15.23	14.72 – 15.74
Trisomy 13 (Patau syndrome)	305	1.35	1.20 – 1.51
Trisomy 18 (Edwards syndrome)	689	3.06	2.83 – 3.29
Infants & fetuses with regular reportable birth defects	130,040	577.47	574.33 – 580.61

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

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Texas Birth Defects Registry (TBDR) Annual Report
Table R4. Prevalence of Selected Birth Defects, Region 4, 1999–2020

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	105	3.32	2.69 – 3.96
Spina bifida without anencephaly	107	3.38	2.74 – 4.03
Encephalocele	27	0.85	0.56 – 1.24
Microcephaly, severe (head circ. <3 rd percentile)	128	4.05	3.35 – 4.75
Holoprosencephaly	26	0.82	0.54 – 1.20
Hydrocephaly without spina bifida	259	8.19	7.19 – 9.19
Eye and Ear			
Anophthalmia	5	0.16	0.05 – 0.37
Microphthalmia	74	2.34	1.84 – 2.94
Cataract	56	1.77	1.34 – 2.30
Anotia or microtia	88	2.78	2.23 – 3.43
Cardiac and Circulatory			
Common truncus	25	0.79	0.51 – 1.17
Transposition of the great vessels	101	3.19	2.57 – 3.82
Double outlet right ventricle	56	1.77	1.34 – 2.30
Tetralogy of Fallot	129	4.08	3.38 – 4.78
Ventricular septal defect	1,289	40.76	38.54 – 42.99
Atrial septal defect	1,431	45.26	42.91 – 47.60
Atrioventricular septal defect (endocardial cushion defect)	125	3.95	3.26 – 4.65
Pulmonary valve atresia or stenosis	258	8.16	7.16 – 9.15
Tricuspid valve atresia or stenosis	62	1.96	1.50 – 2.51
Ebstein anomaly	15	0.47	0.27 – 0.78
Aortic valve stenosis	57	1.80	1.37 – 2.34
Hypoplastic left heart syndrome	81	2.56	2.03 – 3.18
Patent ductus arteriosus	1,257	39.75	37.55 – 41.95
Coarctation of the aorta	145	4.59	3.84 – 5.33
Respiratory			
Choanal atresia or stenosis	49	1.55	1.15 – 2.05
Agenesis, aplasia, or hypoplasia of the lung	81	2.56	2.03 – 3.18
Oral Clefts			
Cleft palate alone (without cleft lip)	209	6.61	5.71 – 7.51
Cleft lip with or without cleft palate	347	10.97	9.82 – 12.13
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	46	1.45	1.07 – 1.94
Pyloric stenosis	563	17.80	16.33 – 19.28
Stenosis or atresia of the small intestine	103	3.26	2.63 – 3.89
Stenosis or atresia of large intestine, rectum, anal canal	131	4.14	3.43 – 4.85
Hirschsprung disease	55	1.74	1.31 – 2.26
Biliary atresia	18	0.57	0.34 – 0.90

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Genitourinary			
Hypospadias (among males)	1,120	69.18	65.13 – 73.23
Epispadias	21	0.66	0.41 – 1.02
Renal agenesis or dysgenesis	181	5.72	4.89 – 6.56
Bladder exstrophy	8	0.25	0.11 – 0.50
Musculoskeletal			
Congenital hip dislocation without hip dysplasia	44	1.39	1.01 – 1.87
Talipes equinovarus/clubfoot	522	16.51	15.09 – 17.92
Reduction defects of the upper limbs	131	4.14	3.43 – 4.85
Reduction defects of the lower limbs	77	2.44	1.92 – 3.04
Craniosynostosis	158	5.00	4.22 – 5.78
Achondroplasia	13	0.41	0.22 – 0.70
Diaphragmatic hernia	77	2.44	1.92 – 3.04
Omphalocele	63	1.99	1.53 – 2.55
Gastroschisis	164	5.19	4.39 – 5.98
Chromosomal			
Trisomy 21 (Down syndrome)	385	12.18	10.96 – 13.39
Trisomy 13 (Patau syndrome)	29	0.92	0.61 – 1.32
Trisomy 18 (Edwards syndrome)	74	2.34	1.84 – 2.94
Infants & fetuses with regular reportable birth defects	13,803	436.52	429.24 – 443.80

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:

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Texas Birth Defects Registry (TBDR) Annual Report
Table R5. Prevalence of Selected Birth Defects, Region 5, 1999–2020

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	42	1.92	1.38 – 2.59
Spina bifida without anencephaly	78	3.56	2.81 – 4.44
Encephalocele	18	0.82	0.49 – 1.30
Microcephaly, severe (head circ. <3 rd percentile)	69	3.15	2.45 – 3.98
Holoprosencephaly	22	1.00	0.63 – 1.52
Hydrocephaly without spina bifida	157	7.16	6.04 – 8.28
Eye and Ear			
Anophthalmia	10	0.46	0.22 – 0.84
Microphthalmia	43	1.96	1.42 – 2.64
Cataract	32	1.46	1.00 – 2.06
Anotia or microtia	34	1.55	1.07 – 2.17
Cardiac and Circulatory			
Common truncus	18	0.82	0.49 – 1.30
Transposition of the great vessels	73	3.33	2.61 – 4.19
Double outlet right ventricle	52	2.37	1.77 – 3.11
Tetralogy of Fallot	73	3.33	2.61 – 4.19
Ventricular septal defect	950	43.34	40.59 – 46.10
Atrial septal defect	1,176	53.65	50.59 – 56.72
Atrioventricular septal defect (endocardial cushion defect)	102	4.65	3.75 – 5.56
Pulmonary valve atresia or stenosis	144	6.57	5.50 – 7.64
Tricuspid valve atresia or stenosis	33	1.51	1.04 – 2.11
Ebstein anomaly	17	0.78	0.45 – 1.24
Aortic valve stenosis	38	1.73	1.23 – 2.38
Hypoplastic left heart syndrome	44	2.01	1.46 – 2.69
Patent ductus arteriosus	792	36.13	33.62 – 38.65
Coarctation of the aorta	106	4.84	3.92 – 5.76
Respiratory			
Choanal atresia or stenosis	28	1.28	0.85 – 1.85
Agenesis, aplasia, or hypoplasia of the lung	67	3.06	2.37 – 3.88
Oral Clefts			
Cleft palate alone (without cleft lip)	131	5.98	4.95 – 7.00
Cleft lip with or without cleft palate	219	9.99	8.67 – 11.31
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	34	1.55	1.07 – 2.17
Pyloric stenosis	313	14.28	12.70 – 15.86
Stenosis or atresia of the small intestine	73	3.33	2.61 – 4.19
Stenosis or atresia of large intestine, rectum, anal canal	88	4.01	3.22 – 4.95
Hirschsprung disease	40	1.82	1.30 – 2.49
Biliary atresia	14	0.64	0.35 – 1.07

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Genitourinary			
Hypospadias (among males)	677	60.38	55.83 – 64.93
Epispadias	17	0.78	0.45 – 1.24
Renal agenesis or dysgenesis	129	5.89	4.87 – 6.90
Bladder exstrophy	9	0.41	0.19 – 0.78
Musculoskeletal			
Congenital hip dislocation without hip dysplasia	67	3.06	2.37 – 3.88
Talipes equinovarus/clubfoot	357	16.29	14.60 – 17.98
Reduction defects of the upper limbs	85	3.88	3.10 – 4.80
Reduction defects of the lower limbs	36	1.64	1.15 – 2.27
Craniosynostosis	90	4.11	3.30 – 5.05
Achondroplasia	9	0.41	0.19 – 0.78
Diaphragmatic hernia	63	2.87	2.21 – 3.68
Omphalocele	39	1.78	1.27 – 2.43
Gastroschisis	126	5.75	4.74 – 6.75
Chromosomal			
Trisomy 21 (Down syndrome)	193	8.81	7.56 – 10.05
Trisomy 13 (Patau syndrome)	21	0.96	0.59 – 1.46
Trisomy 18 (Edwards syndrome)	26	1.19	0.77 – 1.74
Infants & fetuses with regular reportable birth defects	7,892	360.06	352.11 – 368.00

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

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Table R6. Prevalence of Selected Birth Defects, Region 6, 1999–2020

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	317	1.52	1.35 – 1.69
Spina bifida without anencephaly	687	3.30	3.05 – 3.54
Encephalocele	156	0.75	0.63 – 0.87
Microcephaly, severe (head circ. <3 rd percentile)	876	4.20	3.92 – 4.48
Holoprosencephaly	155	0.74	0.63 – 0.86
Hydrocephaly without spina bifida	1,375	6.60	6.25 – 6.95
Eye and Ear			
Anophthalmia	46	0.22	0.16 – 0.29
Microphthalmia	497	2.38	2.17 – 2.59
Cataract	346	1.66	1.49 – 1.83
Anotia or microtia	640	3.07	2.83 – 3.31
Cardiac and Circulatory			
Common truncus	134	0.64	0.53 – 0.75
Transposition of the great vessels	688	3.30	3.05 – 3.55
Double outlet right ventricle	496	2.38	2.17 – 2.59
Tetralogy of Fallot	783	3.76	3.49 – 4.02
Ventricular septal defect	12,056	57.84	56.81 – 58.88
Atrial septal defect	13,567	65.09	64.00 – 66.19
Atrioventricular septal defect (endocardial cushion defect)	846	4.06	3.79 – 4.33
Pulmonary valve atresia or stenosis	1,652	7.93	7.54 – 8.31
Tricuspid valve atresia or stenosis	372	1.78	1.60 – 1.97
Ebstein anomaly	155	0.74	0.63 – 0.86
Aortic valve stenosis	442	2.12	1.92 – 2.32
Hypoplastic left heart syndrome	403	1.93	1.74 – 2.12
Patent ductus arteriosus	9,533	45.74	44.82 – 46.66
Coarctation of the aorta	977	4.69	4.39 – 4.98
Respiratory			
Choanal atresia or stenosis	226	1.08	0.94 – 1.23
Agenesis, aplasia, or hypoplasia of the lung	538	2.58	2.36 – 2.80
Oral Clefts			
Cleft palate alone (without cleft lip)	1,088	5.22	4.91 – 5.53
Cleft lip with or without cleft palate	1,862	8.93	8.53 – 9.34
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	390	1.87	1.69 – 2.06
Pyloric stenosis	2,901	13.92	13.41 – 14.43
Stenosis or atresia of the small intestine	572	2.74	2.52 – 2.97
Stenosis or atresia of large intestine, rectum, anal canal	1,093	5.24	4.93 – 5.56
Hirschsprung disease	251	1.20	1.06 – 1.35
Biliary atresia	133	0.64	0.53 – 0.75

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Genitourinary			
Hypospadias (among males)	6,804	63.97	62.45 – 65.49
Epispadias	190	0.91	0.78 – 1.04
Renal agenesis or dysgenesis	1,174	5.63	5.31 – 5.95
Bladder exstrophy	30	0.14	0.10 – 0.21
Musculoskeletal			
Congenital hip dislocation without hip dysplasia	530	2.54	2.33 – 2.76
Talipes equinovarus/clubfoot	3,254	15.61	15.08 – 16.15
Reduction defects of the upper limbs	669	3.21	2.97 – 3.45
Reduction defects of the lower limbs	293	1.41	1.24 – 1.57
Craniosynostosis	841	4.04	3.76 – 4.31
Achondroplasia	68	0.33	0.25 – 0.41
Diaphragmatic hernia	566	2.72	2.49 – 2.94
Omphalocele	388	1.86	1.68 – 2.05
Gastroschisis	847	4.06	3.79 – 4.34
Chromosomal			
Trisomy 21 (Down syndrome)	2,659	12.76	12.27 – 13.24
Trisomy 13 (Patau syndrome)	191	0.92	0.79 – 1.05
Trisomy 18 (Edwards syndrome)	421	2.02	1.83 – 2.21
Infants & fetuses with regular reportable birth defects	93,707	449.60	446.72 – 452.48

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>

Prepared by: Texas Birth Defects Registry, Birth Defects Epidemiology and Surveillance Branch, Texas Department of State Health Services, February 2024.

Texas Birth Defects Registry (TBDR) Annual Report
Table R7. Prevalence of Selected Birth Defects, Region 7, 1999–2020

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	239	2.55	2.23 – 2.88
Spina bifida without anencephaly	289	3.09	2.73 – 3.44
Encephalocele	77	0.82	0.65 – 1.03
Microcephaly, severe (head circ. <3 rd percentile)	370	3.95	3.55 – 4.36
Holoprosencephaly	107	1.14	0.93 – 1.36
Hydrocephaly without spina bifida	685	7.32	6.77 – 7.87
Eye and Ear			
Anophthalmia	18	0.19	0.11 – 0.30
Microphthalmia	317	3.39	3.01 – 3.76
Cataract	163	1.74	1.47 – 2.01
Anotia or microtia	329	3.52	3.14 – 3.90
Cardiac and Circulatory			
Common truncus	69	0.74	0.57 – 0.93
Transposition of the great vessels	281	3.00	2.65 – 3.35
Double outlet right ventricle	183	1.96	1.67 – 2.24
Tetralogy of Fallot	351	3.75	3.36 – 4.14
Ventricular septal defect	5,208	55.65	54.13 – 57.16
Atrial septal defect	3,680	39.32	38.05 – 40.59
Atrioventricular septal defect (endocardial cushion defect)	388	4.15	3.73 – 4.56
Pulmonary valve atresia or stenosis	900	9.62	8.99 – 10.24
Tricuspid valve atresia or stenosis	148	1.58	1.33 – 1.84
Ebstein anomaly	68	0.73	0.56 – 0.92
Aortic valve stenosis	233	2.49	2.17 – 2.81
Hypoplastic left heart syndrome	195	2.08	1.79 – 2.38
Patent ductus arteriosus	4,228	45.18	43.81 – 46.54
Coarctation of the aorta	450	4.81	4.36 – 5.25
Respiratory			
Choanal atresia or stenosis	115	1.23	1.00 – 1.45
Agenesis, aplasia, or hypoplasia of the lung	283	3.02	2.67 – 3.38
Oral Clefts			
Cleft palate alone (without cleft lip)	549	5.87	5.38 – 6.36
Cleft lip with or without cleft palate	969	10.35	9.70 – 11.01
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	204	2.18	1.88 – 2.48
Pyloric stenosis	1,201	12.83	12.11 – 13.56
Stenosis or atresia of the small intestine	331	3.54	3.16 – 3.92
Stenosis or atresia of large intestine, rectum, anal canal	448	4.79	4.34 – 5.23
Hirschsprung disease	179	1.91	1.63 – 2.19
Biliary atresia	56	0.60	0.45 – 0.78

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Genitourinary			
Hypospadias (among males)	3,130	65.43	63.14 – 67.72
Epispadias	87	0.93	0.74 – 1.15
Renal agenesis or dysgenesis	559	5.97	5.48 – 6.47
Bladder exstrophy	21	0.22	0.14 – 0.34
Musculoskeletal			
Congenital hip dislocation without hip dysplasia	247	2.64	2.31 – 2.97
Talipes equinovarus/clubfoot	1,284	13.72	12.97 – 14.47
Reduction defects of the upper limbs	420	4.49	4.06 – 4.92
Reduction defects of the lower limbs	199	2.13	1.83 – 2.42
Craniosynostosis	476	5.09	4.63 – 5.54
Achondroplasia	34	0.36	0.25 – 0.51
Diaphragmatic hernia	262	2.80	2.46 – 3.14
Omphalocele	189	2.02	1.73 – 2.31
Gastroschisis	493	5.27	4.80 – 5.73
Chromosomal			
Trisomy 21 (Down syndrome)	1,177	12.58	11.86 – 13.29
Trisomy 13 (Patau syndrome)	95	1.02	0.82 – 1.24
Trisomy 18 (Edwards syndrome)	250	2.67	2.34 – 3.00
Infants & fetuses with regular reportable birth defects	43,159	461.14	456.79 – 465.49

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>

Prepared by: Texas Birth Defects Registry, Birth Defects Epidemiology and Surveillance Branch, Texas Department of State Health Services, February 2024.

Texas Birth Defects Registry (TBDR) Annual Report
Table R8. Prevalence of Selected Birth Defects, Region 8, 1999–2020

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	238	2.84	2.48 – 3.20
Spina bifida without anencephaly	347	4.14	3.71 – 4.58
Encephalocele	104	1.24	1.00 – 1.48
Microcephaly, severe (head circ. <3 rd percentile)	509	6.08	5.55 – 6.61
Holoprosencephaly	98	1.17	0.95 – 1.43
Hydrocephaly without spina bifida	792	9.46	8.80 – 10.12
Eye and Ear			
Anophthalmia	26	0.31	0.20 – 0.45
Microphthalmia	273	3.26	2.87 – 3.65
Cataract	140	1.67	1.39 – 1.95
Anotia or microtia	377	4.50	4.05 – 4.96
Cardiac and Circulatory			
Common truncus	84	1.00	0.80 – 1.24
Transposition of the great vessels	317	3.79	3.37 – 4.20
Double outlet right ventricle	169	2.02	1.71 – 2.32
Tetralogy of Fallot	380	4.54	4.08 – 4.99
Ventricular septal defect	4,814	57.48	55.86 – 59.11
Atrial septal defect	5,238	62.55	60.85 – 64.24
Atrioventricular septal defect (endocardial cushion defect)	396	4.73	4.26 – 5.19
Pulmonary valve atresia or stenosis	848	10.13	9.44 – 10.81
Tricuspid valve atresia or stenosis	169	2.02	1.71 – 2.32
Ebstein anomaly	73	0.87	0.68 – 1.10
Aortic valve stenosis	230	2.75	2.39 – 3.10
Hypoplastic left heart syndrome	196	2.34	2.01 – 2.67
Patent ductus arteriosus	5,089	60.77	59.10 – 62.44
Coarctation of the aorta	445	5.31	4.82 – 5.81
Respiratory			
Choanal atresia or stenosis	102	1.22	0.98 – 1.45
Agenesis, aplasia, or hypoplasia of the lung	392	4.68	4.22 – 5.14
Oral Clefts			
Cleft palate alone (without cleft lip)	574	6.85	6.29 – 7.41
Cleft lip with or without cleft palate	1,018	12.16	11.41 – 12.90
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	208	2.48	2.15 – 2.82
Pyloric stenosis	1,477	17.64	16.74 – 18.54
Stenosis or atresia of the small intestine	331	3.95	3.53 – 4.38
Stenosis or atresia of large intestine, rectum, anal canal	546	6.52	5.97 – 7.07
Hirschsprung disease	122	1.46	1.20 – 1.72
Biliary atresia	81	0.97	0.77 – 1.20

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Genitourinary			
Hypospadias (among males)	2,557	59.82	57.50 – 62.13
Epispadias	110	1.31	1.07 – 1.56
Renal agenesis or dysgenesis	703	8.39	7.77 – 9.02
Bladder exstrophy	14	0.17	0.09 – 0.28
Musculoskeletal			
Congenital hip dislocation without hip dysplasia	148	1.77	1.48 – 2.05
Talipes equinovarus/clubfoot	1,483	17.71	16.81 – 18.61
Reduction defects of the upper limbs	399	4.76	4.30 – 5.23
Reduction defects of the lower limbs	227	2.71	2.36 – 3.06
Craniosynostosis	573	6.84	6.28 – 7.40
Achondroplasia	26	0.31	0.20 – 0.45
Diaphragmatic hernia	256	3.06	2.68 – 3.43
Omphalocele	197	2.35	2.02 – 2.68
Gastroschisis	529	6.32	5.78 – 6.86
Chromosomal			
Trisomy 21 (Down syndrome)	1,294	15.45	14.61 – 16.29
Trisomy 13 (Patau syndrome)	112	1.34	1.09 – 1.59
Trisomy 18 (Edwards syndrome)	232	2.77	2.41 – 3.13
Infants & fetuses with regular reportable birth defects	43,659	521.33	516.44 – 526.22

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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Texas Birth Defects Registry (TBDR) Annual Report
Table R9. Prevalence of Selected Birth Defects, Region 9, 1999–2020

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	53	2.60	1.95 – 3.40
Spina bifida without anencephaly	61	3.00	2.29 – 3.85
Encephalocele	22	1.08	0.68 – 1.64
Microcephaly, severe (head circ. <3 rd percentile)	72	3.54	2.77 – 4.45
Holoprosencephaly	28	1.37	0.91 – 1.99
Hydrocephaly without spina bifida	187	9.18	7.87 – 10.50
Eye and Ear			
Anophthalmia	5	0.25	0.08 – 0.57
Microphthalmia	65	3.19	2.46 – 4.07
Cataract	48	2.36	1.74 – 3.12
Anotia or microtia	66	3.24	1.74 – 4.12
Cardiac and Circulatory			
Common truncus	14	0.69	0.38 – 1.15
Transposition of the great vessels	66	3.24	2.51 – 4.12
Double outlet right ventricle	41	2.01	1.44 – 2.73
Tetralogy of Fallot	76	3.73	2.94 – 4.67
Ventricular septal defect	1,190	58.43	55.11 – 61.75
Atrial septal defect	3,041	149.32	144.02 – 154.63
Atrioventricular septal defect (endocardial cushion defect)	75	3.68	2.90 – 4.62
Pulmonary valve atresia or stenosis	202	9.92	8.55 – 11.29
Tricuspid valve atresia or stenosis	31	1.52	1.03 – 2.16
Ebstein anomaly	18	0.88	0.52 – 1.40
Aortic valve stenosis	43	2.11	1.53 – 2.84
Hypoplastic left heart syndrome	54	2.65	1.99 – 3.46
Patent ductus arteriosus	1,482	72.77	69.07 – 76.48
Coarctation of the aorta	109	5.35	4.35 – 6.36
Respiratory			
Choanal atresia or stenosis	23	1.13	0.72 – 1.69
Agenesis, aplasia, or hypoplasia of the lung	45	2.21	1.61 – 2.96
Oral Clefts			
Cleft palate alone (without cleft lip)	123	6.04	4.97 – 7.11
Cleft lip with or without cleft palate	267	13.11	11.54 – 14.68
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	54	2.65	1.99 – 3.46
Pyloric stenosis	343	16.84	15.06 – 18.62
Stenosis or atresia of the small intestine	61	3.00	2.29 – 3.85
Stenosis or atresia of large intestine, rectum, anal canal	122	5.99	4.93 – 7.05
Hirschsprung disease	29	1.42	0.95 – 2.05
Biliary atresia	13	0.64	0.34 – 1.09

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Genitourinary			
Hypospadias (among males)	525	50.32	46.01 – 54.62
Epispadias	18	0.88	0.52 – 1.40
Renal agenesis or dysgenesis	126	6.19	5.11 – 7.27
Bladder exstrophy	2	0.10	0.01 – 0.35
Musculoskeletal			
Congenital hip dislocation without hip dysplasia	60	2.95	2.25 – 3.79
Talipes equinovarus/clubfoot	395	19.40	17.48 – 21.31
Reduction defects of the upper limbs	85	4.17	3.33 – 5.16
Reduction defects of the lower limbs	50	2.46	1.82 – 3.24
Craniosynostosis	140	6.87	5.74 – 8.01
Achondroplasia	7	0.34	0.14 – 0.71
Diaphragmatic hernia	52	2.55	1.91 – 3.35
Omphalocele	44	2.16	1.57 – 2.90
Gastroschisis	147	7.22	6.05 – 8.39
Chromosomal			
Trisomy 21 (Down syndrome)	210	10.31	8.92 – 11.71
Trisomy 13 (Patau syndrome)	27	1.33	0.87 – 1.93
Trisomy 18 (Edwards syndrome)	41	2.01	1.44 – 2.73
Infants & fetuses with regular reportable birth defects	10,249	503.26	493.52 – 513.00

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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Texas Birth Defects Registry (TBDR) Annual Report
Table R10. Prevalence of Selected Birth Defects, Region 10, 1999–2020

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	90	2.95	2.37 – 3.62
Spina bifida without anencephaly	107	3.50	2.84 – 4.17
Encephalocele	20	0.66	0.40 – 1.01
Microcephaly, severe (head circ. <3 rd percentile)	124	4.06	3.35 – 4.78
Holoprosencephaly	38	1.24	0.88 – 1.71
Hydrocephaly without spina bifida	236	7.73	6.74 – 8.72
Eye and Ear			
Anophthalmia	4	0.13	0.04 – 0.34
Microphthalmia	83	2.72	2.17 – 3.37
Cataract	41	1.34	0.96 – 1.82
Anotia or microtia	127	4.16	3.44 – 4.88
Cardiac and Circulatory			
Common truncus	27	0.88	0.58 – 1.29
Transposition of the great vessels	66	2.16	1.67 – 2.75
Double outlet right ventricle	56	1.83	1.39 – 2.38
Tetralogy of Fallot	92	3.01	2.43 – 3.70
Ventricular septal defect	1,410	46.18	43.77 – 48.59
Atrial septal defect	1,364	44.67	42.30 – 47.04
Atrioventricular septal defect (endocardial cushion defect)	86	2.82	2.25 – 3.48
Pulmonary valve atresia or stenosis	172	5.63	4.79 – 6.48
Tricuspid valve atresia or stenosis	39	1.28	0.91 – 1.75
Ebstein anomaly	26	0.85	0.56 – 1.25
Aortic valve stenosis	73	2.39	1.87 – 3.01
Hypoplastic left heart syndrome	63	2.06	1.59 – 2.64
Patent ductus arteriosus	1,448	47.43	44.98 – 49.87
Coarctation of the aorta	147	4.81	4.04 – 5.59
Respiratory			
Choanal atresia or stenosis	25	0.82	0.53 – 1.21
Agenesis, aplasia, or hypoplasia of the lung	61	2.00	1.53 – 2.57
Oral Clefts			
Cleft palate alone (without cleft lip)	144	4.72	3.95 – 5.49
Cleft lip with or without cleft palate	369	12.09	10.85 – 13.32
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	79	2.59	2.05 – 3.22
Pyloric stenosis	553	18.11	16.60 – 19.62
Stenosis or atresia of the small intestine	101	3.31	2.66 – 3.95
Stenosis or atresia of large intestine, rectum, anal canal	168	5.50	4.67 – 6.33
Hirschsprung disease	30	0.98	0.66 – 1.40
Biliary atresia	25	0.82	0.53 – 1.21

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Genitourinary			
Hypospadias (among males)	666	42.83	39.58 – 46.09
Epispadias	51	1.67	1.24 – 2.20
Renal agenesis or dysgenesis	194	6.35	5.46 – 7.25
Bladder exstrophy	2	0.07	0.01 – 0.24
Musculoskeletal			
Congenital hip dislocation without hip dysplasia	146	4.78	4.01 – 5.56
Talipes equinovarus/clubfoot	506	16.57	15.13 – 18.02
Reduction defects of the upper limbs	116	3.80	3.11 – 4.49
Reduction defects of the lower limbs	62	2.03	1.56 – 2.60
Craniosynostosis	254	8.32	7.30 – 9.34
Achondroplasia	16	0.52	0.30 – 0.85
Diaphragmatic hernia	79	2.59	2.05 – 3.22
Omphalocele	60	1.97	1.50 – 2.53
Gastroschisis	169	5.54	4.70 – 6.37
Chromosomal			
Trisomy 21 (Down syndrome)	459	15.03	13.66 – 16.41
Trisomy 13 (Patau syndrome)	43	1.41	1.02 – 1.90
Trisomy 18 (Edwards syndrome)	63	2.06	1.59 – 2.64
Infants & fetuses with regular reportable birth defects	12,722	416.67	409.43 – 423.91

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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Texas Birth Defects Registry (TBDR) Annual Report
Table R11. Prevalence of Selected Birth Defects, Region 11, 1999–2020

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	291	3.38	2.99 – 3.77
Spina bifida without anencephaly	419	4.86	4.40 – 5.33
Encephalocele	100	1.16	0.94 – 1.41
Microcephaly, severe (head circ. <3 rd percentile)	319	3.70	3.30 – 4.11
Holoprosencephaly	125	1.45	1.20 – 1.71
Hydrocephaly without spina bifida	806	9.36	8.71 – 10.00
Eye and Ear			
Anophthalmia	47	0.55	0.40 – 0.73
Microphthalmia	209	2.43	2.10 – 2.75
Cataract	88	1.02	0.82 – 1.26
Anotia or microtia	359	4.17	3.74 – 4.60
Cardiac and Circulatory			
Common truncus	97	1.13	0.91 – 1.37
Transposition of the great vessels	319	3.70	3.30 – 4.11
Double outlet right ventricle	260	3.02	2.65 – 3.38
Tetralogy of Fallot	421	4.89	4.42 – 5.35
Ventricular septal defect	8,370	97.15	95.07 – 99.24
Atrial septal defect	10,883	126.32	123.95 – 128.70
Atrioventricular septal defect (endocardial cushion defect)	385	4.47	4.02 – 4.92
Pulmonary valve atresia or stenosis	1,407	16.33	15.48 – 17.19
Tricuspid valve atresia or stenosis	205	2.38	2.05 – 2.71
Ebstein anomaly	98	1.14	0.92 – 1.39
Aortic valve stenosis	305	3.54	3.14 – 3.94
Hypoplastic left heart syndrome	188	2.18	1.87 – 2.49
Patent ductus arteriosus	9,801	113.76	111.51 – 116.02
Coarctation of the aorta	696	8.08	7.48 – 8.68
Respiratory			
Choanal atresia or stenosis	121	1.40	1.15 – 1.65
Agenesis, aplasia, or hypoplasia of the lung	349	4.05	3.63 – 4.48
Oral Clefts			
Cleft palate alone (without cleft lip)	480	5.57	5.07 – 6.07
Cleft lip with or without cleft palate	1,007	11.69	10.97 – 12.41
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	201	2.33	2.01 – 2.66
Pyloric stenosis	1,867	21.67	20.69 – 22.65
Stenosis or atresia of the small intestine	327	3.80	3.38 – 4.21
Stenosis or atresia of large intestine, rectum, anal canal	537	6.23	5.71 – 6.76
Hirschsprung disease	96	1.11	0.90 – 1.36
Biliary atresia	64	0.74	0.57 – 0.95

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Genitourinary			
Hypospadias (among males)	1,962	44.57	42.60 – 46.54
Epispadias	79	0.92	0.73 – 1.14
Renal agenesis or dysgenesis	620	7.20	6.63 – 7.76
Bladder exstrophy	14	0.16	0.09 – 0.27
Musculoskeletal			
Congenital hip dislocation without hip dysplasia	166	1.93	1.63 – 2.22
Talipes equinovarus/clubfoot	1,496	17.36	16.48 – 18.24
Reduction defects of the upper limbs	358	4.16	3.73 – 4.59
Reduction defects of the lower limbs	157	1.82	1.54 – 2.11
Craniosynostosis	432	5.01	4.54 – 5.49
Achondroplasia	19	0.22	0.13 – 0.34
Diaphragmatic hernia	243	2.82	2.47 – 3.18
Omphalocele	217	2.52	2.18 – 2.85
Gastroschisis	536	6.22	5.69 – 6.75
Chromosomal			
Trisomy 21 (Down syndrome)	1,362	15.81	14.97 – 16.65
Trisomy 13 (Patau syndrome)	98	1.14	0.92 – 1.39
Trisomy 18 (Edwards syndrome)	246	2.86	2.50 – 3.21
Infants & fetuses with regular reportable birth defects	44,234	513.44	508.66 – 518.23

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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