

Texas Birth Defects Registry (TBDR) Annual Report
Table R1. Prevalence of Selected Birth Defects, Region 1, 1999–2021

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	56	1.97	1.49 – 2.56
Spina bifida (without anencephaly)	99	3.49	2.84 – 4.25
Encephalocele	29	1.02	0.68 – 1.47
Microcephaly, severe (head circ. <3 rd percentile)	101	3.56	2.86 – 4.25
Holoprosencephaly	40	1.41	1.01 – 1.92
Hydrocephaly (without spina bifida)	237	8.35	7.29 – 9.41
Eye and Ear			
Anophthalmia	8	0.28	0.12 – 0.56
Microphthalmia	73	2.57	2.02 – 3.23
Cataract	46	1.62	1.19 – 2.16
Anotia or microtia	105	3.70	2.99 – 4.41
Cardiac and Circulatory			
Common truncus	20	0.70	0.43 – 1.09
Transposition of the great vessels	90	3.17	2.55 – 3.90
Double outlet right ventricle	66	2.33	1.80 – 2.96
Tetralogy of Fallot	110	3.88	3.15 – 4.60
Ventricular septal defect	1,690	59.55	56.71 – 62.39
Atrial septal defect	2,815	99.19	95.53 – 102.86
Atrioventricular septal defect (endocardial cushion defect)	138	4.86	4.05 – 5.67
Pulmonary valve atresia or stenosis	210	7.40	6.40 – 8.40
Tricuspid valve atresia or stenosis	69	2.43	1.89 – 3.08
Ebstein anomaly	22	0.78	0.49 – 1.17
Aortic valve stenosis	57	2.01	1.52 – 2.60
Hypoplastic left heart syndrome	70	2.47	1.92 – 3.12
Patent ductus arteriosus	1,982	69.84	66.77 – 72.92
Coarctation of the aorta	196	6.91	5.94 – 7.87
Respiratory			
Choanal atresia or stenosis	35	1.23	0.86 – 1.72
Agenesis, aplasia, or hypoplasia of the lung	58	2.04	1.55 – 2.64
Oral Clefts			
Cleft palate alone (without cleft lip)	172	6.06	5.16 – 6.97
Cleft lip (with or without cleft palate)	384	13.53	12.18 – 14.88
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	69	2.43	1.89 – 3.08
Pyloric stenosis	479	16.88	15.37 – 18.39
Stenosis or atresia of the small intestine	103	3.63	2.93 – 4.33
Stenosis or atresia of large intestine, rectum, anal canal	158	5.57	4.70 – 6.44
Hirschsprung disease	38	1.34	0.95 – 1.84
Biliary atresia	22	0.78	0.49 – 1.17
Genitourinary			
Hypospadias (among males)	822	56.74	52.86 – 60.62
Renal agenesis or dysgenesis	209	7.36	6.37 – 8.36
Bladder exstrophy	1	0.04	0.00 – 0.20

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Musculoskeletal			
Congenital hip dislocation (without hip dysplasia)	64	2.26	1.74 – 2.88
Talipes equinovarus (clubfoot)	628	22.13	20.40 – 23.86
Reduction defects of the upper limbs	130	4.58	3.79 – 5.37
Reduction defects of the lower limbs	72	2.54	1.99 – 3.20
Craniosynostosis	199	7.01	6.04 – 7.99
Achondroplasia	14	0.49	0.27 – 0.83
Diaphragmatic hernia	86	3.03	2.42 – 3.74
Omphalocele	43	1.52	1.10 – 2.04
Gastroschisis	182	6.41	5.48 – 7.34
Chromosomal			
Trisomy 21 (Down syndrome)	340	11.98	10.71 – 13.25
Trisomy 13 (Patau syndrome)	33	1.16	0.80 – 1.63
Trisomy 18 (Edwards syndrome)	57	2.01	1.52 – 2.60
Infants & fetuses with regular reportable birth defects	14,107	497.09	488.89 – 505.30

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/1999-2021-TBDR-Methods.pdf>

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

Texas Birth Defects Registry (TBDR) Annual Report
Table R2. Prevalence of Selected Birth Defects, Region 2, 1999–2021

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	44	2.69	1.96 – 3.62
Spina bifida (without anencephaly)	80	4.90	3.88 – 6.09
Encephalocele	16	0.98	0.56 – 1.59
Microcephaly, severe (head circ. <3 rd percentile)	52	3.18	2.38 – 4.17
Holoprosencephaly	15	0.92	0.51 – 1.51
Hydrocephaly (without spina bifida)	126	7.71	6.37 – 9.06
Eye and Ear			
Anophthalmia	2	0.12	0.01 – 0.44
Microphthalmia	43	2.63	1.90 – 3.55
Cataract	29	1.78	1.19 – 2.55
Anotia or microtia	51	3.12	2.32 – 4.10
Cardiac and Circulatory			
Common truncus	14	0.86	0.47 – 1.44
Transposition of the great vessels	61	3.73	2.86 – 4.80
Double outlet right ventricle	37	2.26	1.59 – 3.12
Tetralogy of Fallot	53	3.24	2.43 – 4.24
Ventricular septal defect	929	56.87	53.21 – 60.52
Atrial septal defect	1,498	91.69	87.05 – 96.34
Atrioventricular septal defect (endocardial cushion defect)	67	4.10	3.18 – 5.21
Pulmonary valve atresia or stenosis	158	9.67	8.16 – 11.18
Tricuspid valve atresia or stenosis	34	2.08	1.44 – 2.91
Ebstein anomaly	11	0.67	0.34 – 1.20
Aortic valve stenosis	43	2.63	1.90 – 3.55
Hypoplastic left heart syndrome	50	3.06	2.27 – 4.03
Patent ductus arteriosus	835	51.11	47.64 – 54.58
Coarctation of the aorta	87	5.33	4.27 – 6.57
Respiratory			
Choanal atresia or stenosis	16	0.98	0.56 – 1.59
Agenesis, aplasia, or hypoplasia of the lung	28	1.71	1.14 – 2.48
Oral Clefts			
Cleft palate alone (without cleft lip)	119	7.28	5.98 – 8.59
Cleft lip (with or without cleft palate)	220	13.47	11.69 – 15.25
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	41	2.51	1.80 – 3.40
Pyloric stenosis	345	21.12	18.89 – 23.35
Stenosis or atresia of the small intestine	66	4.04	3.12 – 5.14
Stenosis or atresia of large intestine, rectum, anal canal	94	5.75	4.65 – 7.04
Hirschsprung disease	28	1.71	1.14 – 2.48
Biliary atresia	11	0.67	0.34 – 1.20
Genitourinary			
Hypospadias (among males)	8	0.49	0.21 – 0.96
Renal agenesis or dysgenesis	74	4.53	3.56 – 5.69
Bladder exstrophy	3	0.18	0.04 – 0.54

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Musculoskeletal			
Congenital hip dislocation (without hip dysplasia)	37	2.26	1.59 – 3.12
Talipes equinovarus (clubfoot)	302	18.49	16.40 – 20.57
Reduction defects of the upper limbs	70	4.28	3.34 – 5.41
Reduction defects of the lower limbs	24	1.47	0.94 – 2.19
Craniosynostosis	122	7.47	6.14 – 8.79
Achondroplasia	9	0.55	0.25 – 1.05
Diaphragmatic hernia	51	3.12	2.32 – 4.10
Omphalocele	32	1.96	1.34 – 2.77
Gastroschisis	113	6.92	5.64 – 8.19
Chromosomal			
Trisomy 21 (Down syndrome)	204	12.49	10.77 – 14.20
Trisomy 13 (Patau syndrome)	17	1.04	0.61 – 1.67
Trisomy 18 (Edwards syndrome)	28	1.71	1.14 – 2.48
Infants & fetuses with regular reportable birth defects	7,224	442.19	431.99 – 452.39

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/1999-2021-TBDR-Methods.pdf>

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

Texas Birth Defects Registry (TBDR) Annual Report
Table R3. Prevalence of Selected Birth Defects, Region 3, 1999–2021

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	659	2.80	2.58 – 3.01
Spina bifida (without anencephaly)	905	3.84	3.59 – 4.09
Encephalocele	257	1.09	0.96 – 1.22
Microcephaly, severe (head circ. <3 rd percentile)	1,775	7.54	7.19 – 7.89
Holoprosencephaly	245	1.04	0.91 – 1.17
Hydrocephaly (without spina bifida)	2,047	8.69	8.32 – 9.07
Eye and Ear			
Anophthalmia	79	0.34	0.27 – 0.42
Microphthalmia	661	2.81	2.59 – 3.02
Cataract	683	2.90	2.68 – 3.12
Anotia or microtia	885	3.76	3.51 – 4.01
Cardiac and Circulatory			
Common truncus	153	0.65	0.55 – 0.75
Transposition of the great vessels	810	3.44	3.20 – 3.68
Double outlet right ventricle	574	2.44	2.24 – 2.64
Tetralogy of Fallot	915	3.89	3.63 – 4.14
Ventricular septal defect	14,420	61.23	60.23 – 62.23
Atrial septal defect	16,123	68.46	67.41 – 69.52
Atrioventricular septal defect (endocardial cushion defect)	1,139	4.84	4.56 – 5.12
Pulmonary valve atresia or stenosis	2,598	11.03	10.61 – 11.46
Tricuspid valve atresia or stenosis	452	1.92	1.74 – 2.10
Ebstein anomaly	144	0.61	0.51 – 0.71
Aortic valve stenosis	541	2.30	2.10 – 2.49
Hypoplastic left heart syndrome	580	2.46	2.26 – 2.66
Patent ductus arteriosus	13,128	55.75	54.79 – 56.70
Coarctation of the aorta	1,180	5.01	4.72 – 5.30
Respiratory			
Choanal atresia or stenosis	361	1.53	1.37 – 1.69
Agenesis, aplasia, or hypoplasia of the lung	635	2.70	2.49 – 2.91
Oral Clefts			
Cleft palate alone (without cleft lip)	1,505	6.39	6.07 – 6.71
Cleft lip (with or without cleft palate)	2,551	10.83	10.41 – 11.25
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	560	2.38	2.18 – 2.57
Pyloric stenosis	3,690	15.67	15.16 – 16.17
Stenosis or atresia of the small intestine	860	3.65	3.41 – 3.90
Stenosis or atresia of large intestine, rectum, anal canal	1,183	5.02	4.74 – 5.31
Hirschsprung disease	368	1.56	1.40 – 1.72
Biliary atresia	172	0.73	0.62 – 0.84
Genitourinary			
Hypospadias (among males)	8,453	70.13	68.63 – 71.62
Renal agenesis or dysgenesis	1,586	6.73	6.40 – 7.07
Bladder exstrophy	47	0.20	0.15 – 0.27

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Musculoskeletal			
Congenital hip dislocation (without hip dysplasia)	632	2.68	2.47 – 2.89
Talipes equinovarus (clubfoot)	4,033	17.13	16.60 – 17.65
Reduction defects of the upper limbs	1,085	4.61	4.33 – 4.88
Reduction defects of the lower limbs	490	2.08	1.90 – 2.26
Craniosynostosis	1,505	6.39	6.07 – 6.71
Achondroplasia	93	0.39	0.32 – 0.48
Diaphragmatic hernia	670	2.85	2.63 – 3.06
Omphalocele	583	2.48	2.27 – 2.68
Gastroschisis	1,060	4.50	4.23 – 4.77
Chromosomal			
Trisomy 21 (Down syndrome)	3,611	15.33	14.83 – 15.83
Trisomy 13 (Patau syndrome)	314	1.33	1.19 – 1.48
Trisomy 18 (Edwards syndrome)	714	3.03	2.81 – 3.25
Infants & fetuses with regular reportable birth defects	137,929	585.70	582.61 – 588.79

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, 1999–2021

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	108	3.27	2.66 – 3.89
Spina bifida (without anencephaly)	110	3.33	2.71 – 3.96
Encephalocele	32	0.97	0.66 – 1.37
Microcephaly, severe (head circ. <3 rd percentile)	134	4.06	3.37 – 4.75
Holoprosencephaly	27	0.82	0.54 – 1.19
Hydrocephaly (without spina bifida)	277	8.39	7.41 – 9.38
Eye and Ear			
Anophthalmia	6	0.18	0.07 – 0.40
Microphthalmia	77	2.33	1.84 – 2.92
Cataract	58	1.76	1.33 – 2.27
Anotia or microtia	93	2.82	2.27 – 3.45
Cardiac and Circulatory			
Common truncus	27	0.82	0.54 – 1.19
Transposition of the great vessels	108	3.27	2.66 – 3.89
Double outlet right ventricle	59	1.79	1.36 – 2.31
Tetralogy of Fallot	131	3.97	3.29 – 4.65
Ventricular septal defect	1,360	41.22	39.03 – 43.41
Atrial septal defect	1,497	45.37	43.07 – 47.67
Atrioventricular septal defect (endocardial cushion defect)	137	4.15	3.46 – 4.85
Pulmonary valve atresia or stenosis	277	8.39	7.41 – 9.38
Tricuspid valve atresia or stenosis	63	1.91	1.47 – 2.44
Ebstein anomaly	17	0.52	0.30 – 0.82
Aortic valve stenosis	59	1.79	1.36 – 2.31
Hypoplastic left heart syndrome	84	2.55	2.03 – 3.15
Patent ductus arteriosus	1,290	39.09	36.96 – 41.23
Coarctation of the aorta	156	4.73	3.99 – 5.47
Respiratory			
Choanal atresia or stenosis	54	1.64	1.23 – 2.14
Agenesis, aplasia, or hypoplasia of the lung	82	2.49	1.98 – 3.08
Oral Clefts			
Cleft palate alone (without cleft lip)	218	6.61	5.73 – 7.48
Cleft lip (with or without cleft palate)	361	10.94	9.81 – 12.07
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	51	1.55	1.15 – 2.03
Pyloric stenosis	585	17.73	16.29 – 19.17
Stenosis or atresia of the small intestine	110	3.33	2.71 – 3.96
Stenosis or atresia of large intestine, rectum, anal canal	140	4.24	3.54 – 4.95
Hirschsprung disease	58	1.76	1.33 – 2.27
Biliary atresia	19	0.58	0.35 – 0.90
Genitourinary			
Hypospadias (among males)	22	0.67	0.42 – 1.01
Renal agenesis or dysgenesis	190	5.76	4.94 – 6.58
Bladder exstrophy	8	0.24	0.10 – 0.48

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Musculoskeletal			
Congenital hip dislocation (without hip dysplasia)	45	1.36	0.99 – 1.82
Talipes equinovarus (clubfoot)	550	16.67	15.28 – 18.06
Reduction defects of the upper limbs	139	4.21	3.51 – 4.91
Reduction defects of the lower limbs	84	2.55	2.03 – 3.15
Craniosynostosis	166	5.03	4.27 – 5.80
Achondroplasia	14	0.42	0.23 – 0.71
Diaphragmatic hernia	79	2.39	1.90 – 2.98
Omphalocele	65	1.97	1.52 – 2.51
Gastroschisis	166	5.03	4.27 – 5.80
Chromosomal			
Trisomy 21 (Down syndrome)	406	12.30	11.11 – 13.50
Trisomy 13 (Patau syndrome)	31	0.94	0.64 – 1.33
Trisomy 18 (Edwards syndrome)	75	2.27	1.79 – 2.85
Infants & fetuses with regular reportable birth defects	14,598	442.41	435.23 – 449.58

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, 1999–2021

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	45	1.97	1.44 – 2.64
Spina bifida (without anencephaly)	80	3.50	2.78 – 4.36
Encephalocele	19	0.83	0.50 – 1.30
Microcephaly, severe (head circ. <3 rd percentile)	71	3.11	2.43 – 3.92
Holoprosencephaly	23	1.01	0.64 – 1.51
Hydrocephaly (without spina bifida)	175	7.66	6.53 – 8.80
Eye and Ear			
Anophthalmia	11	0.48	0.24 – 0.86
Microphthalmia	45	1.97	1.44 – 2.64
Cataract	32	1.40	0.96 – 1.98
Anotia or microtia	39	1.71	1.21 – 2.33
Cardiac and Circulatory			
Common truncus	19	0.83	0.50 – 1.30
Transposition of the great vessels	75	3.28	2.58 – 4.12
Double outlet right ventricle	53	2.32	1.74 – 3.03
Tetralogy of Fallot	79	3.46	2.74 – 4.31
Ventricular septal defect	1,010	44.21	41.49 – 46.94
Atrial septal defect	1,290	56.47	53.39 – 59.55
Atrioventricular septal defect (endocardial cushion defect)	108	4.73	3.84 – 5.62
Pulmonary valve atresia or stenosis	159	6.96	5.88 – 8.04
Tricuspid valve atresia or stenosis	40	1.75	1.25 – 2.38
Ebstein anomaly	18	0.79	0.47 – 1.25
Aortic valve stenosis	40	1.75	1.25 – 2.38
Hypoplastic left heart syndrome	45	1.97	1.44 – 2.64
Patent ductus arteriosus	829	36.29	33.82 – 38.76
Coarctation of the aorta	110	4.82	3.92 – 5.72
Respiratory			
Choanal atresia or stenosis	29	1.27	0.85 – 1.82
Agenesis, aplasia, or hypoplasia of the lung	71	3.11	2.43 – 3.92
Oral Clefts			
Cleft palate alone (without cleft lip)	137	6.00	4.99 – 7.00
Cleft lip (with or without cleft palate)	230	10.07	8.77 – 11.37
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	35	1.53	1.07 – 2.13
Pyloric stenosis	325	14.23	12.68 – 15.77
Stenosis or atresia of the small intestine	77	3.37	2.66 – 4.21
Stenosis or atresia of large intestine, rectum, anal canal	98	4.29	3.48 – 5.23
Hirschsprung disease	42	1.84	1.33 – 2.49
Biliary atresia	14	0.61	0.34 – 1.03
Genitourinary			
Hypospadias (among males)	721	61.64	57.14 – 66.14
Renal agenesis or dysgenesis	134	5.87	4.87 – 6.86
Bladder exstrophy	9	0.39	0.18 – 0.75

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Musculoskeletal			
Congenital hip dislocation (without hip dysplasia)	68	2.98	2.31 – 3.77
Talipes equinovarus (clubfoot)	372	16.28	14.63 – 17.94
Reduction defects of the upper limbs	89	3.90	3.13 – 4.79
Reduction defects of the lower limbs	36	1.58	1.10 – 2.18
Craniosynostosis	91	3.98	3.21 – 4.89
Achondroplasia	9	0.39	0.18 – 0.75
Diaphragmatic hernia	65	2.85	2.20 – 3.63
Omphalocele	41	1.79	1.29 – 2.43
Gastroschisis	130	5.69	4.71 – 6.67
Chromosomal			
Trisomy 21 (Down syndrome)	213	9.32	8.07 – 10.58
Trisomy 13 (Patau syndrome)	22	0.96	0.60 – 1.46
Trisomy 18 (Edwards syndrome)	27	1.18	0.78 – 1.72
Infants & fetuses with regular reportable birth defects	8,477	371.07	363.17 – 378.97

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 R6. Prevalence of Selected Birth Defects, Region 6, 1999–2021

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	325	1.49	1.33 – 1.65
Spina bifida (without anencephaly)	730	3.35	3.11 – 3.59
Encephalocele	161	0.74	0.62 – 0.85
Microcephaly, severe (head circ. <3 rd percentile)	933	4.28	4.01 – 4.56
Holoprosencephaly	163	0.75	0.63 – 0.86
Hydrocephaly (without spina bifida)	1,459	6.70	6.35 – 7.04
Eye and Ear			
Anophthalmia	47	0.22	0.16 – 0.29
Microphthalmia	515	2.36	2.16 – 2.57
Cataract	369	1.69	1.52 – 1.87
Anotia or microtia	691	3.17	2.94 – 3.41
Cardiac and Circulatory			
Common truncus	137	0.63	0.52 – 0.73
Transposition of the great vessels	712	3.27	3.03 – 3.51
Double outlet right ventricle	514	2.36	2.16 – 2.56
Tetralogy of Fallot	819	3.76	3.50 – 4.02
Ventricular septal defect	12,882	59.14	58.12 – 60.16
Atrial septal defect	14,674	67.37	66.28 – 68.46
Atrioventricular septal defect (endocardial cushion defect)	878	4.03	3.76 – 4.30
Pulmonary valve atresia or stenosis	1,741	7.99	7.62 – 8.37
Tricuspid valve atresia or stenosis	402	1.85	1.67 – 2.03
Ebstein anomaly	166	0.76	0.65 – 0.88
Aortic valve stenosis	463	2.13	1.93 – 2.32
Hypoplastic left heart syndrome	420	1.93	1.74 – 2.11
Patent ductus arteriosus	9,813	45.05	44.16 – 45.94
Coarctation of the aorta	1,027	4.72	4.43 – 5.00
Respiratory			
Choanal atresia or stenosis	239	1.10	0.96 – 1.24
Agenesis, aplasia, or hypoplasia of the lung	550	2.53	2.31 – 2.74
Oral Clefts			
Cleft palate alone (without cleft lip)	1,143	5.25	4.94 – 5.55
Cleft lip (with or without cleft palate)	1,940	8.91	8.51 – 9.30
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	405	1.86	1.68 – 2.04
Pyloric stenosis	2,964	13.61	13.12 – 14.10
Stenosis or atresia of the small intestine	603	2.77	2.55 – 2.99
Stenosis or atresia of large intestine, rectum, anal canal	1,133	5.20	4.90 – 5.50
Hirschsprung disease	263	1.21	1.06 – 1.35
Biliary atresia	139	0.64	0.53 – 0.74
Genitourinary			
Hypospadias (among males)	7,133	64.17	62.68 – 65.65
Renal agenesis or dysgenesis	1,252	5.75	5.43 – 6.07
Bladder exstrophy	33	0.15	0.10 – 0.21

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Musculoskeletal			
Congenital hip dislocation (without hip dysplasia)	545	2.50	2.29 – 2.71
Talipes equinovarus (clubfoot)	3,445	15.82	15.29 – 16.34
Reduction defects of the upper limbs	707	3.25	3.01 – 3.49
Reduction defects of the lower limbs	321	1.47	1.31 – 1.63
Craniosynostosis	902	4.14	3.87 – 4.41
Achondroplasia	74	0.34	0.27 – 0.43
Diaphragmatic hernia	600	2.75	2.53 – 2.98
Omphalocele	407	1.87	1.69 – 2.05
Gastroschisis	880	4.04	3.77 – 4.31
Chromosomal			
Trisomy 21 (Down syndrome)	2,801	12.86	12.38 – 13.34
Trisomy 13 (Patau syndrome)	201	0.92	0.80 – 1.05
Trisomy 18 (Edwards syndrome)	445	2.04	1.85 – 2.23
Infants & fetuses with regular reportable birth defects	100,547	461.62	458.77 – 464.48

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/1999-2021-TBDR-Methods.pdf>

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

Texas Birth Defects Registry (TBDR) Annual Report
Table R7. Prevalence of Selected Birth Defects, Region 7, 1999–2021

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	247	2.52	2.20 – 2.83
Spina bifida (without anencephaly)	302	3.08	2.73 – 3.42
Encephalocele	84	0.86	0.68 – 1.06
Microcephaly, severe (head circ. <3 rd percentile)	410	4.18	3.77 – 4.58
Holoprosencephaly	110	1.12	0.91 – 1.33
Hydrocephaly (without spina bifida)	730	7.43	6.90 – 7.97
Eye and Ear			
Anophthalmia	19	0.19	0.12 – 0.30
Microphthalmia	325	3.31	2.95 – 3.67
Cataract	172	1.75	1.49 – 2.01
Anotia or microtia	347	3.53	3.16 – 3.91
Cardiac and Circulatory			
Common truncus	74	0.75	0.59 – 0.95
Transposition of the great vessels	294	2.99	2.65 – 3.34
Double outlet right ventricle	194	1.98	1.70 – 2.25
Tetralogy of Fallot	369	3.76	3.37 – 4.14
Ventricular septal defect	5,550	56.53	55.04 – 58.01
Atrial septal defect	3,971	40.44	39.19 – 41.70
Atrioventricular septal defect (endocardial cushion defect)	407	4.15	3.74 – 4.55
Pulmonary valve atresia or stenosis	950	9.68	9.06 – 10.29
Tricuspid valve atresia or stenosis	160	1.63	1.38 – 1.88
Ebstein anomaly	72	0.73	0.57 – 0.92
Aortic valve stenosis	246	2.51	2.19 – 2.82
Hypoplastic left heart syndrome	199	2.03	1.75 – 2.31
Patent ductus arteriosus	4,346	44.26	42.95 – 45.58
Coarctation of the aorta	473	4.82	4.38 – 5.25
Respiratory			
Choanal atresia or stenosis	123	1.25	1.03 – 1.47
Agenesis, aplasia, or hypoplasia of the lung	291	2.96	2.62 – 3.30
Oral Clefts			
Cleft palate alone (without cleft lip)	577	5.88	5.40 – 6.36
Cleft lip (with or without cleft palate)	1,022	10.41	9.77 – 11.05
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	222	2.26	1.96 – 2.56
Pyloric stenosis	1,247	12.70	12.00 – 13.41
Stenosis or atresia of the small intestine	350	3.56	3.19 – 3.94
Stenosis or atresia of large intestine, rectum, anal canal	478	4.87	4.43 – 5.30
Hirschsprung disease	186	1.89	1.62 – 2.17
Biliary atresia	57	0.58	0.44 – 0.75
Genitourinary			
Hypospadias (among males)	3,298	65.70	63.46 – 67.95
Renal agenesis or dysgenesis	610	6.21	5.72 – 6.71
Bladder exstrophy	21	0.21	0.13 – 0.33

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Musculoskeletal			
Congenital hip dislocation (without hip dysplasia)	255	2.60	2.28 – 2.92
Talipes equinovarus (clubfoot)	1,382	14.08	13.33 – 14.82
Reduction defects of the upper limbs	432	4.40	3.98 – 4.81
Reduction defects of the lower limbs	208	2.12	1.83 – 2.41
Craniosynostosis	511	5.20	4.75 – 5.66
Achondroplasia	35	0.36	0.25 – 0.50
Diaphragmatic hernia	282	2.87	2.54 – 3.21
Omphalocele	201	2.05	1.76 – 2.33
Gastroschisis	515	5.25	4.79 – 5.70
Chromosomal			
Trisomy 21 (Down syndrome)	1,238	12.61	11.91 – 13.31
Trisomy 13 (Patau syndrome)	101	1.03	0.83 – 1.23
Trisomy 18 (Edwards syndrome)	256	2.61	2.29 – 2.93
Infants & fetuses with regular reportable birth defects	46,469	473.28	468.98 – 477.59

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/1999-2021-TBDR-Methods.pdf>

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

Texas Birth Defects Registry (TBDR) Annual Report
Table R8. Prevalence of Selected Birth Defects, Region 8, 1999–2021

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	243	2.78	2.43 – 3.13
Spina bifida (without anencephaly)	359	4.10	3.68 – 4.53
Encephalocele	109	1.25	1.01 – 1.48
Microcephaly, severe (head circ. <3 rd percentile)	554	6.33	5.80 – 6.86
Holoprosencephaly	101	1.15	0.93 – 1.38
Hydrocephaly (without spina bifida)	846	9.67	9.02 – 10.32
Eye and Ear			
Anophthalmia	28	0.32	0.21 – 0.46
Microphthalmia	282	3.22	2.85 – 3.60
Cataract	148	1.69	1.42 – 1.96
Anotia or microtia	397	4.54	4.09 – 4.98
Cardiac and Circulatory			
Common truncus	86	0.98	0.79 – 1.21
Transposition of the great vessels	328	3.75	3.34 – 4.15
Double outlet right ventricle	180	2.06	1.76 – 2.36
Tetralogy of Fallot	396	4.53	4.08 – 4.97
Ventricular septal defect	5,135	58.68	57.07 – 60.28
Atrial septal defect	5,692	65.04	63.35 – 66.73
Atrioventricular septal defect (endocardial cushion defect)	416	4.75	4.30 – 5.21
Pulmonary valve atresia or stenosis	891	10.18	9.51 – 10.85
Tricuspid valve atresia or stenosis	180	2.06	1.76 – 2.36
Ebstein anomaly	79	0.90	0.71 – 1.13
Aortic valve stenosis	244	2.79	2.44 – 3.14
Hypoplastic left heart syndrome	202	2.31	1.99 – 2.63
Patent ductus arteriosus	5,227	59.73	58.11 – 61.35
Coarctation of the aorta	470	5.37	4.89 – 5.86
Respiratory			
Choanal atresia or stenosis	107	1.22	0.99 – 1.45
Agenesis, aplasia, or hypoplasia of the lung	402	4.59	4.14 – 5.04
Oral Clefts			
Cleft palate alone (without cleft lip)	603	6.89	6.34 – 7.44
Cleft lip (with or without cleft palate)	1,066	12.18	11.45 – 12.91
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	218	2.49	2.16 – 2.82
Pyloric stenosis	1,535	17.54	16.66 – 18.42
Stenosis or atresia of the small intestine	344	3.93	3.52 – 4.35
Stenosis or atresia of large intestine, rectum, anal canal	571	6.52	5.99 – 7.06
Hirschsprung disease	127	1.45	1.20 – 1.70
Biliary atresia	83	0.95	0.76 – 1.18
Genitourinary			
Hypospadias (among males)	2,693	60.28	58.00 – 62.56
Renal agenesis or dysgenesis	737	8.42	7.81 – 9.03
Bladder exstrophy	15	0.17	0.10 – 0.28

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Musculoskeletal			
Congenital hip dislocation (without hip dysplasia)	149	1.70	1.43 – 1.98
Talipes equinovarus (clubfoot)	1,561	17.84	16.95 – 18.72
Reduction defects of the upper limbs	425	4.86	4.39 – 5.32
Reduction defects of the lower limbs	234	2.67	2.33 – 3.02
Craniosynostosis	609	6.96	6.41 – 7.51
Achondroplasia	28	0.32	0.21 – 0.46
Diaphragmatic hernia	272	3.11	2.74 – 3.48
Omphalocele	210	2.40	2.08 – 2.72
Gastroschisis	553	6.32	5.79 – 6.85
Chromosomal			
Trisomy 21 (Down syndrome)	1,350	15.43	14.60 – 16.25
Trisomy 13 (Patau syndrome)	116	1.33	1.08 – 1.57
Trisomy 18 (Edwards syndrome)	236	2.70	2.35 – 3.04
Infants & fetuses with regular reportable birth defects	47,049	537.63	532.77 – 542.49

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/1999-2021-TBDR-Methods.pdf>

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Texas Birth Defects Registry (TBDR) Annual Report
Table R9. Prevalence of Selected Birth Defects, Region 9, 1999–2021

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	53	2.49	1.86 – 3.25
Spina bifida (without anencephaly)	69	3.24	2.52 – 4.10
Encephalocele	23	1.08	0.68 – 1.62
Microcephaly, severe (head circ. <3 rd percentile)	76	3.56	2.81 – 4.46
Holoprosencephaly	30	1.41	0.95 – 2.01
Hydrocephaly (without spina bifida)	196	9.19	7.91 – 10.48
Eye and Ear			
Anophthalmia	5	0.23	0.08 – 0.55
Microphthalmia	67	3.14	2.44 – 3.99
Cataract	50	2.35	1.74 – 3.09
Anotia or microtia	71	3.33	2.60 – 4.20
Cardiac and Circulatory			
Common truncus	15	0.70	0.39 – 1.16
Transposition of the great vessels	67	3.14	2.44 – 3.99
Double outlet right ventricle	42	1.97	1.42 – 2.66
Tetralogy of Fallot	79	3.71	2.93 – 4.62
Ventricular septal defect	1,266	59.38	56.11 – 62.65
Atrial septal defect	3,252	152.53	147.29 – 157.77
Atrioventricular septal defect (endocardial cushion defect)	81	3.80	3.02 – 4.72
Pulmonary valve atresia or stenosis	216	10.13	8.78 – 11.48
Tricuspid valve atresia or stenosis	31	1.45	0.99 – 2.06
Ebstein anomaly	19	0.89	0.54 – 1.39
Aortic valve stenosis	44	2.06	1.50 – 2.77
Hypoplastic left heart syndrome	58	2.72	2.07 – 3.52
Patent ductus arteriosus	1,506	70.64	67.07 – 74.20
Coarctation of the aorta	113	5.30	4.32 – 6.28
Respiratory			
Choanal atresia or stenosis	25	1.17	0.76 – 1.73
Agenesis, aplasia, or hypoplasia of the lung	46	2.16	1.58 – 2.88
Oral Clefts			
Cleft palate alone (without cleft lip)	126	5.91	4.88 – 6.94
Cleft lip (with or without cleft palate)	280	13.13	11.59 – 14.67
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	55	2.58	1.94 – 3.36
Pyloric stenosis	355	16.65	14.92 – 18.38
Stenosis or atresia of the small intestine	71	3.33	2.60 – 4.20
Stenosis or atresia of large intestine, rectum, anal canal	128	6.00	4.96 – 7.04
Hirschsprung disease	30	1.41	0.95 – 2.01
Biliary atresia	13	0.61	0.32 – 1.04
Genitourinary			
Hypospadias (among males)	558	51.10	46.86 – 55.34
Renal agenesis or dysgenesis	133	6.24	5.18 – 7.30
Bladder exstrophy	2	0.09	0.01 – 0.34

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Musculoskeletal			
Congenital hip dislocation (without hip dysplasia)	62	2.91	2.23 – 3.73
Talipes equinovarus (clubfoot)	426	19.98	18.08 – 21.88
Reduction defects of the upper limbs	92	4.32	3.48 – 5.29
Reduction defects of the lower limbs	51	2.39	1.78 – 3.15
Craniosynostosis	160	7.50	6.34 – 8.67
Achondroplasia	7	0.33	0.13 – 0.68
Diaphragmatic hernia	54	2.53	1.90 – 3.30
Omphalocele	46	2.16	1.58 – 2.88
Gastroschisis	152	7.13	6.00 – 8.26
Chromosomal			
Trisomy 21 (Down syndrome)	225	10.55	9.17 – 11.93
Trisomy 13 (Patau syndrome)	27	1.27	0.83 – 1.84
Trisomy 18 (Edwards syndrome)	44	2.06	1.50 – 2.77
Infants & fetuses with regular reportable birth defects	10,976	514.81	505.18 – 524.45

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/1999-2021-TBDR-Methods.pdf>

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Texas Birth Defects Registry (TBDR) Annual Report
Table R10. Prevalence of Selected Birth Defects, Region 10, 1999–2021

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	92	2.91	2.34 – 3.57
Spina bifida (without anencephaly)	110	3.48	2.83 – 4.13
Encephalocele	22	0.70	0.44 – 1.05
Microcephaly, severe (head circ. <3 rd percentile)	129	4.08	3.37 – 4.78
Holoprosencephaly	40	1.26	0.90 – 1.72
Hydrocephaly (without spina bifida)	248	7.84	6.86 – 8.81
Eye and Ear			
Anophthalmia	4	0.13	0.03 – 0.32
Microphthalmia	88	2.78	2.23 – 3.43
Cataract	42	1.33	0.96 – 1.79
Anotia or microtia	134	4.23	3.52 – 4.95
Cardiac and Circulatory			
Common truncus	27	0.85	0.56 – 1.24
Transposition of the great vessels	68	2.15	1.67 – 2.72
Double outlet right ventricle	59	1.86	1.42 – 2.40
Tetralogy of Fallot	97	3.07	2.49 – 3.74
Ventricular septal defect	1,480	46.77	44.39 – 49.15
Atrial septal defect	1,606	50.75	48.27 – 53.23
Atrioventricular septal defect (endocardial cushion defect)	87	2.75	2.20 – 3.39
Pulmonary valve atresia or stenosis	179	5.66	4.83 – 6.49
Tricuspid valve atresia or stenosis	40	1.26	0.90 – 1.72
Ebstein anomaly	26	0.82	0.54 – 1.20
Aortic valve stenosis	77	2.43	1.92 – 3.04
Hypoplastic left heart syndrome	63	1.99	1.53 – 2.55
Patent ductus arteriosus	1,490	47.08	44.69 – 49.48
Coarctation of the aorta	153	4.83	4.07 – 5.60
Respiratory			
Choanal atresia or stenosis	25	0.79	0.51 – 1.17
Agenesis, aplasia, or hypoplasia of the lung	65	2.05	1.59 – 2.62
Oral Clefts			
Cleft palate alone (without cleft lip)	151	4.77	4.01 – 5.53
Cleft lip (with or without cleft palate)	379	11.98	10.77 – 13.18
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	82	2.59	2.06 – 3.22
Pyloric stenosis	566	17.89	16.41 – 19.36
Stenosis or atresia of the small intestine	107	3.38	2.74 – 4.02
Stenosis or atresia of large intestine, rectum, anal canal	172	5.44	4.62 – 6.25
Hirschsprung disease	31	0.98	0.67 – 1.39
Biliary atresia	26	0.82	0.54 – 1.20
Genitourinary			
Hypospadias (among males)	702	43.55	40.33 – 46.77
Renal agenesis or dysgenesis	202	6.38	5.50 – 7.26
Bladder exstrophy	2	0.06	0.01 – 0.23

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Musculoskeletal			
Congenital hip dislocation (without hip dysplasia)	149	4.71	3.95 – 5.46
Talipes equinovarus (clubfoot)	531	16.78	15.35 – 18.21
Reduction defects of the upper limbs	117	3.70	3.03 – 4.37
Reduction defects of the lower limbs	64	2.02	1.56 – 2.58
Craniosynostosis	276	8.72	7.69 – 9.75
Achondroplasia	17	0.54	0.31 – 0.86
Diaphragmatic hernia	80	2.53	2.00 – 3.15
Omphalocele	61	1.93	1.47 – 2.48
Gastroschisis	177	5.59	4.77 – 6.42
Chromosomal			
Trisomy 21 (Down syndrome)	474	14.98	13.63 – 16.33
Trisomy 13 (Patau syndrome)	44	1.39	1.01 – 1.87
Trisomy 18 (Edwards syndrome)	64	2.02	1.56 – 2.58
Infants & fetuses with regular reportable birth defects	13,501	426.64	419.44 – 433.83

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/1999-2021-TBDR-Methods.pdf>

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Texas Birth Defects Registry (TBDR) Annual Report
Table R11. Prevalence of Selected Birth Defects, Region 11, 1999–2021

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System			
Anencephaly	296	3.31	2.94 – 3.69
Spina bifida (without anencephaly)	431	4.82	4.37 – 5.28
Encephalocele	102	1.14	0.92 – 1.36
Microcephaly, severe (head circ. <3 rd percentile)	337	3.77	3.37 – 4.18
Holoprosencephaly	126	1.41	1.16 – 1.66
Hydrocephaly (without spina bifida)	833	9.33	8.69 – 9.96
Eye and Ear			
Anophthalmia	47	0.53	0.39 – 0.70
Microphthalmia	215	2.41	2.09 – 2.73
Cataract	93	1.04	0.84 – 1.28
Anotia or microtia	370	4.14	3.72 – 4.56
Cardiac and Circulatory			
Common truncus	100	1.12	0.91 – 1.36
Transposition of the great vessels	326	3.65	3.25 – 4.05
Double outlet right ventricle	269	3.01	2.65 – 3.37
Tetralogy of Fallot	437	4.89	4.43 – 5.35
Ventricular septal defect	8,703	97.43	95.38 – 99.48
Atrial septal defect	11,350	127.06	124.72 – 129.40
Atrioventricular septal defect (endocardial cushion defect)	393	4.40	3.96 – 4.83
Pulmonary valve atresia or stenosis	1,430	16.01	15.18 – 16.84
Tricuspid valve atresia or stenosis	214	2.40	2.07 – 2.72
Ebstein anomaly	102	1.14	0.92 – 1.36
Aortic valve stenosis	316	3.54	3.15 – 3.93
Hypoplastic left heart syndrome	192	2.15	1.85 – 2.45
Patent ductus arteriosus	9,880	110.60	108.42 – 112.79
Coarctation of the aorta	729	8.16	7.57 – 8.75
Respiratory			
Choanal atresia or stenosis	127	1.42	1.17 – 1.67
Agenesis, aplasia, or hypoplasia of the lung	361	4.04	3.62 – 4.46
Oral Clefts			
Cleft palate alone (without cleft lip)	500	5.60	5.11 – 6.09
Cleft lip (with or without cleft palate)	1,042	11.67	10.96 – 12.37
Gastrointestinal			
Tracheoesophageal fistula/esophageal atresia	206	2.31	1.99 – 2.62
Pyloric stenosis	1,915	21.44	20.48 – 22.40
Stenosis or atresia of the small intestine	341	3.82	3.41 – 4.22
Stenosis or atresia of large intestine, rectum, anal canal	547	6.12	5.61 – 6.64
Hirschsprung disease	97	1.09	0.88 – 1.32
Biliary atresia	67	0.75	0.58 – 0.95
Genitourinary			
Hypospadias (among males)	2,057	45.06	43.12 – 47.01
Renal agenesis or dysgenesis	655	7.33	6.77 – 7.89
Bladder exstrophy	14	0.16	0.09 – 0.26

Birth Defect (Body System)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Musculoskeletal			
Congenital hip dislocation (without hip dysplasia)	168	1.88	1.60 – 2.17
Talipes equinovarus (clubfoot)	1,554	17.40	16.53 – 18.26
Reduction defects of the upper limbs	371	4.15	3.73 – 4.58
Reduction defects of the lower limbs	160	1.79	1.51 – 2.07
Craniosynostosis	448	5.02	4.55 – 5.48
Achondroplasia	22	0.25	0.15 – 0.37
Diaphragmatic hernia	250	2.80	2.45 – 3.15
Omphalocele	221	2.47	2.15 – 2.80
Gastroschisis	556	6.22	5.71 – 6.74
Chromosomal			
Trisomy 21 (Down syndrome)	1,412	15.81	14.98 – 16.63
Trisomy 13 (Patau syndrome)	105	1.18	0.95 – 1.40
Trisomy 18 (Edwards syndrome)	254	2.84	2.49 – 3.19
Infants & fetuses with regular reportable birth defects	46,345	518.82	514.10 – 523.55

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/1999-2021-TBDR-Methods.pdf>

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