

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R1. Prevalence of Selected Birth Defects, Texas Region 1, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Central Nervous System				
Anencephaly	47	1.97	1.45 -	2.62
Spina bifida without anencephaly	81	3.40	2.70 -	4.22
Encephalocele	26	1.09	0.71 -	1.60
Microcephaly, severe (head circumference <3rd percentile)	76	3.19	2.51 -	3.99
Holoprosencephaly	33	1.38	0.95 -	1.94
Hydrocephaly without spina bifida	192	8.05	6.91 -	9.19
Eye and Ear				
Anophthalmia	6	0.25	0.09 -	0.55
Microphthalmia	60	2.52	1.92 -	3.24
Cataract	37	1.55	1.09 -	2.14
Anotia or microtia	85	3.56	2.85 -	4.41
Cardiac and Circulatory				
Common truncus	17	0.71	0.42 -	1.14
Transposition of the great vessels	79	3.31	2.62 -	4.13
Double outlet right ventricle	47	1.97	1.45 -	2.62
Tetralogy of Fallot	97	4.07	3.30 -	4.96
Ventricular septal defect	1368	57.35	54.31 -	60.39
Atrial septal defect	2187	91.69	87.84 -	95.53
Atrioventricular septal defect (endocardial cushion defect)	121	5.07	4.17 -	5.98
Pulmonary valve atresia or stenosis	171	7.17	6.09 -	8.24
Tricuspid valve atresia or stenosis	56	2.35	1.77 -	3.05
Ebstein anomaly	18	0.75	0.45 -	1.19
Aortic valve stenosis	40	1.68	1.20 -	2.28
Hypoplastic left heart syndrome	58	2.43	1.85 -	3.14
Patent ductus arteriosus	1757	73.66	70.21 -	77.10
Coarctation of the aorta	143	6.00	5.01 -	6.98
Respiratory				
Choanal atresia or stenosis	28	1.17	0.78 -	1.70
Agenesis, aplasia, or hypoplasia of the lung	53	2.22	1.66 -	2.91
Oral Clefts				
Cleft palate alone (without cleft lip)	142	5.95	4.97 -	6.93
Cleft lip with or without cleft palate	324	13.58	12.10 -	15.06
Gastrointestinal				
Tracheoesophageal fistula / esophageal atresia	58	2.43	1.85 -	3.14
Pyloric stenosis	422	17.69	16.00 -	19.38
Stenosis or atresia of the small intestine	86	3.61	2.88 -	4.45
Stenosis or atresia of large intestine, rectum, or anal canal	132	5.53	4.59 -	6.48
Hirschsprung disease	31	1.30	0.88 -	1.84
Biliary atresia	18	0.75	0.45 -	1.19

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Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Genitourinary				
Hypospadias (cases and prevalence among males)	695	57.06	52.82 -	61.31
Epispadias	25	1.05	0.68 -	1.55
Renal agenesis or dysgenesis	165	6.92	5.86 -	7.97
Bladder exstrophy	1	0.04	0.00 -	0.23
Musculoskeletal				
Congenital hip dislocation without hip dysplasia	62	2.60	1.99 -	3.33
Talipes equinovarus / clubfoot	520	21.80	19.93 -	23.67
Reduction defects of the upper limbs	106	4.44	3.60 -	5.29
Reduction defects of the lower limbs	61	2.56	1.96 -	3.28
Craniosynostosis	161	6.75	5.71 -	7.79
Achondroplasia	12	0.50	0.26 -	0.88
Diaphragmatic hernia	70	2.93	2.29 -	3.71
Omphalocele	41	1.72	1.23 -	2.33
Gastroschisis	152	6.37	5.36 -	7.39
Chromosomal				
Trisomy 21 (Down syndrome)	289	12.12	10.72 -	13.51
Trisomy 13 (Patau syndrome)	27	1.13	0.75 -	1.65
Trisomy 18 (Edwards syndrome)	49	2.05	1.52 -	2.72
Infants and fetuses with regular reportable birth defects				
	11222	470.46	461.76 -	479.17

[†] cases per 10,000 live births

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R2. Prevalence of Selected Birth Defects, Texas Region 2, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Central Nervous System				
Anencephaly	40	2.91	2.08 -	3.96
Spina bifida without anencephaly	62	4.51	3.46 -	5.78
Encephalocele	9	0.65	0.30 -	1.24
Microcephaly, severe (head circumference <3rd percentile)	41	2.98	2.14 -	4.04
Holoprosencephaly	12	0.87	0.45 -	1.52
Hydrocephaly without spina bifida	103	7.49	6.04 -	8.93
Eye and Ear				
Anophthalmia	2	0.15	0.02 -	0.53
Microphthalmia	34	2.47	1.71 -	3.45
Cataract	26	1.89	1.23 -	2.77
Anotia or microtia	45	3.27	2.39 -	4.38
Cardiac and Circulatory				
Common truncus	13	0.94	0.50 -	1.62
Transposition of the great vessels	53	3.85	2.89 -	5.04
Double outlet right ventricle	31	2.25	1.53 -	3.20
Tetralogy of Fallot	46	3.34	2.45 -	4.46
Ventricular septal defect	768	55.82	51.88 -	59.77
Atrial septal defect	1308	95.07	89.92 -	100.23
Atrioventricular septal defect (endocardial cushion defect)	58	4.22	3.20 -	5.45
Pulmonary valve atresia or stenosis	140	10.18	8.49 -	11.86
Tricuspid valve atresia or stenosis	28	2.04	1.35 -	2.94
Ebstein anomaly	11	0.80	0.40 -	1.43
Aortic valve stenosis	34	2.47	1.71 -	3.45
Hypoplastic left heart syndrome	47	3.42	2.51 -	4.54
Patent ductus arteriosus	731	53.13	49.28 -	56.99
Coarctation of the aorta	76	5.52	4.35 -	6.91
Respiratory				
Choanal atresia or stenosis	12	0.87	0.45 -	1.52
Agensis, aplasia, or hypoplasia of the lung	26	1.89	1.23 -	2.77
Oral Clefts				
Cleft palate alone (without cleft lip)	97	7.05	5.72 -	8.60
Cleft lip with or without cleft palate	179	13.01	11.10 -	14.92
Gastrointestinal				
Tracheoesophageal fistula / esophageal atresia	32	2.33	1.59 -	3.28
Pyloric stenosis	304	22.10	19.61 -	24.58
Stenosis or atresia of the small intestine	52	3.78	2.82 -	4.96
Stenosis or atresia of large intestine, rectum, or anal canal	74	5.38	4.22 -	6.75
Hirschsprung disease	22	1.60	1.00 -	2.42
Biliary atresia	6	0.44	0.16 -	0.95

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R2. Prevalence of Selected Birth Defects, Texas Region 2, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Genitourinary				
Hypospadias (cases and prevalence among males)	414	58.79	53.13 -	64.46
Epispadias	8	0.58	0.25 -	1.15
Renal agenesis or dysgenesis	59	4.29	3.26 -	5.53
Bladder exstrophy	3	0.22	0.04 -	0.64
Musculoskeletal				
Congenital hip dislocation without hip dysplasia	37	2.69	1.89 -	3.71
Talipes equinovarus / clubfoot	242	17.59	15.37 -	19.81
Reduction defects of the upper limbs	62	4.51	3.46 -	5.78
Reduction defects of the lower limbs	20	1.45	0.89 -	2.25
Craniosynostosis	97	7.05	5.72 -	8.60
Achondroplasia	9	0.65	0.30 -	1.24
Diaphragmatic hernia	47	3.42	2.51 -	4.54
Omphalocele	30	2.18	1.47 -	3.11
Gastroschisis	95	6.91	5.59 -	8.44
Chromosomal				
Trisomy 21 (Down syndrome)	168	12.21	10.36 -	14.06
Trisomy 13 (Patau syndrome)	14	1.02	0.56 -	1.71
Trisomy 18 (Edwards syndrome)	24	1.74	1.12 -	2.60
Infants and fetuses with regular reportable birth defects				
	5755	418.31	407.51 -	429.12

[†] cases per 10,000 live births

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R3. Prevalence of Selected Birth Defects, Texas Region 3, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Central Nervous System				
Anencephaly	551	2.83	2.59 -	3.06
Spina bifida without anencephaly	764	3.92	3.64 -	4.20
Encephalocele	214	1.10	0.95 -	1.25
Microcephaly, severe (head circumference <3rd percentile)	1260	6.47	6.11 -	6.82
Holoprosencephaly	204	1.05	0.90 -	1.19
Hydrocephaly without spina bifida	1660	8.52	8.11 -	8.93
Eye and Ear				
Anophthalmia	67	0.34	0.27 -	0.44
Microphthalmia	557	2.86	2.62 -	3.10
Cataract	546	2.80	2.57 -	3.04
Anotia or microtia	711	3.65	3.38 -	3.92
Cardiac and Circulatory				
Common truncus	123	0.63	0.52 -	0.74
Transposition of the great vessels	711	3.65	3.38 -	3.92
Double outlet right ventricle	454	2.33	2.12 -	2.54
Tetralogy of Fallot	760	3.90	3.62 -	4.18
Ventricular septal defect	11777	60.44	59.35 -	61.53
Atrial septal defect	13543	69.50	68.33 -	70.67
Atrioventricular septal defect (endocardial cushion defect)	935	4.80	4.49 -	5.11
Pulmonary valve atresia or stenosis	2115	10.85	10.39 -	11.32
Tricuspid valve atresia or stenosis	374	1.92	1.72 -	2.11
Ebstein anomaly	114	0.59	0.48 -	0.69
Aortic valve stenosis	458	2.35	2.14 -	2.57
Hypoplastic left heart syndrome	485	2.49	2.27 -	2.71
Patent ductus arteriosus	11530	59.17	58.09 -	60.25
Coarctation of the aorta	960	4.93	4.62 -	5.24
Respiratory				
Choanal atresia or stenosis	292	1.50	1.33 -	1.67
Agenesis, aplasia, or hypoplasia of the lung	545	2.80	2.56 -	3.03
Oral Clefts				
Cleft palate alone (without cleft lip)	1242	6.37	6.02 -	6.73
Cleft lip with or without cleft palate	2121	10.89	10.42 -	11.35
Gastrointestinal				
Tracheoesophageal fistula / esophageal atresia	466	2.39	2.17 -	2.61
Pyloric stenosis	3154	16.19	15.62 -	16.75
Stenosis or atresia of the small intestine	697	3.58	3.31 -	3.84
Stenosis or atresia of large intestine, rectum, or anal canal	969	4.97	4.66 -	5.29
Hirschsprung disease	303	1.56	1.38 -	1.73
Biliary atresia	148	0.76	0.64 -	0.88

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R3. Prevalence of Selected Birth Defects, Texas Region 3, 1999-2017

Birth Defect	Cases	Preva- lence[†]	95% Confidence Interval for Prevalence	
Genitourinary				
Hypospadias (cases and prevalence among males)	6961	69.76	68.12 -	71.39
Epispadias	201	1.03	0.89 -	1.17
Renal agenesis or dysgenesis	1261	6.47	6.11 -	6.83
Bladder exstrophy	41	0.21	0.15 -	0.29
Musculoskeletal				
Congenital hip dislocation without hip dysplasia	579	2.97	2.73 -	3.21
Talipes equinovarus / clubfoot	3242	16.64	16.07 -	17.21
Reduction defects of the upper limbs	925	4.75	4.44 -	5.05
Reduction defects of the lower limbs	419	2.15	1.94 -	2.36
Craniosynostosis	1241	6.37	6.01 -	6.72
Achondroplasia	75	0.38	0.30 -	0.48
Diaphragmatic hernia	539	2.77	2.53 -	3.00
Omphalocele	473	2.43	2.21 -	2.65
Gastroschisis	903	4.63	4.33 -	4.94
Chromosomal				
Trisomy 21 (Down syndrome)	2992	15.36	14.80 -	15.91
Trisomy 13 (Patau syndrome)	277	1.42	1.25 -	1.59
Trisomy 18 (Edwards syndrome)	605	3.10	2.86 -	3.35
Infants and fetuses with regular reportable birth defects				
	107124	549.77	546.47 -	553.06

[†] cases per 10,000 live births

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 Table R4. Prevalence of Selected Birth Defects, Texas Region 4, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Central Nervous System				
Anencephaly	92	3.34	2.69 -	4.09
Spina bifida without anencephaly	96	3.48	2.82 -	4.25
Encephalocele	26	0.94	0.62 -	1.38
Microcephaly, severe (head circumference <3rd percentile)	98	3.56	2.89 -	4.33
Holoprosencephaly	20	0.73	0.44 -	1.12
Hydrocephaly without spina bifida	217	7.87	6.83 -	8.92
Eye and Ear				
Anophthalmia	5	0.18	0.06 -	0.42
Microphthalmia	62	2.25	1.72 -	2.88
Cataract	47	1.71	1.25 -	2.27
Anotia or microtia	73	2.65	2.08 -	3.33
Cardiac and Circulatory				
Common truncus	21	0.76	0.47 -	1.16
Transposition of the great vessels	87	3.16	2.53 -	3.89
Double outlet right ventricle	48	1.74	1.28 -	2.31
Tetralogy of Fallot	112	4.06	3.31 -	4.82
Ventricular septal defect	1084	39.33	36.99 -	41.67
Atrial septal defect	1210	43.90	41.42 -	46.37
Atrioventricular septal defect (endocardial cushion defect)	106	3.85	3.11 -	4.58
Pulmonary valve atresia or stenosis	216	7.84	6.79 -	8.88
Tricuspid valve atresia or stenosis	52	1.89	1.41 -	2.47
Ebstein anomaly	9	0.33	0.15 -	0.62
Aortic valve stenosis	49	1.78	1.32 -	2.35
Hypoplastic left heart syndrome	70	2.54	1.98 -	3.21
Patent ductus arteriosus	1098	39.83	37.48 -	42.19
Coarctation of the aorta	121	4.39	3.61 -	5.17
Respiratory				
Choanal atresia or stenosis	44	1.60	1.16 -	2.14
Agenesis, aplasia, or hypoplasia of the lung	74	2.68	2.11 -	3.37
Oral Clefts				
Cleft palate alone (without cleft lip)	179	6.49	5.54 -	7.45
Cleft lip with or without cleft palate	302	10.96	9.72 -	12.19
Gastrointestinal				
Tracheoesophageal fistula / esophageal atresia	38	1.38	0.98 -	1.89
Pyloric stenosis	495	17.96	16.38 -	19.54
Stenosis or atresia of the small intestine	87	3.16	2.53 -	3.89
Stenosis or atresia of large intestine, rectum, or anal canal	108	3.92	3.18 -	4.66
Hirschsprung disease	50	1.81	1.35 -	2.39
Biliary atresia	14	0.51	0.28 -	0.85

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R4. Prevalence of Selected Birth Defects, Texas Region 4, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Genitourinary				
Hypospadias (cases and prevalence among males)	973	68.94	64.61 -	73.27
Epispadias	19	0.69	0.42 -	1.08
Renal agenesis or dysgenesis	161	5.84	4.94 -	6.74
Bladder exstrophy	8	0.29	0.13 -	0.57
Musculoskeletal				
Congenital hip dislocation without hip dysplasia	38	1.38	0.98 -	1.89
Talipes equinovarus / clubfoot	443	16.07	14.58 -	17.57
Reduction defects of the upper limbs	115	4.17	3.41 -	4.93
Reduction defects of the lower limbs	69	2.50	1.95 -	3.17
Craniosynostosis	128	4.64	3.84 -	5.45
Achondroplasia	13	0.47	0.25 -	0.81
Diaphragmatic hernia	70	2.54	1.98 -	3.21
Omphalocele	56	2.03	1.53 -	2.64
Gastroschisis	144	5.22	4.37 -	6.08
Chromosomal				
Trisomy 21 (Down syndrome)	325	11.79	10.51 -	13.07
Trisomy 13 (Patau syndrome)	26	0.94	0.62 -	1.38
Trisomy 18 (Edwards syndrome)	70	2.54	1.98 -	3.21
Infants and fetuses with regular reportable birth defects				
	11505	417.39	409.77 -	425.02

[†] cases per 10,000 live births

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R5. Prevalence of Selected Birth Defects, Texas Region 5, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Central Nervous System				
Anencephaly	39	2.04	1.45 -	2.79
Spina bifida without anencephaly	66	3.45	2.67 -	4.39
Encephalocele	16	0.84	0.48 -	1.36
Microcephaly, severe (head circumference <3rd percentile)	56	2.93	2.21 -	3.80
Holoprosencephaly	21	1.10	0.68 -	1.68
Hydrocephaly without spina bifida	131	6.85	5.68 -	8.02
Eye and Ear				
Anophthalmia	9	0.47	0.22 -	0.89
Microphthalmia	35	1.83	1.27 -	2.54
Cataract	27	1.41	0.93 -	2.05
Anotia or microtia	24	1.25	0.80 -	1.87
Cardiac and Circulatory				
Common truncus	14	0.73	0.40 -	1.23
Transposition of the great vessels	58	3.03	2.30 -	3.92
Double outlet right ventricle	40	2.09	1.49 -	2.85
Tetralogy of Fallot	57	2.98	2.26 -	3.86
Ventricular septal defect	786	41.09	38.22 -	43.96
Atrial septal defect	898	46.95	43.88 -	50.02
Atrioventricular septal defect (endocardial cushion defect)	89	4.65	3.74 -	5.73
Pulmonary valve atresia or stenosis	109	5.70	4.63 -	6.77
Tricuspid valve atresia or stenosis	27	1.41	0.93 -	2.05
Ebstein anomaly	13	0.68	0.36 -	1.16
Aortic valve stenosis	35	1.83	1.27 -	2.54
Hypoplastic left heart syndrome	37	1.93	1.36 -	2.67
Patent ductus arteriosus	716	37.43	34.69 -	40.17
Coarctation of the aorta	93	4.86	3.92 -	5.96
Respiratory				
Choanal atresia or stenosis	25	1.31	0.85 -	1.93
Agenesis, aplasia, or hypoplasia of the lung	57	2.98	2.26 -	3.86
Oral Clefts				
Cleft palate alone (without cleft lip)	113	5.91	4.82 -	7.00
Cleft lip with or without cleft palate	187	9.78	8.37 -	11.18
Gastrointestinal				
Tracheoesophageal fistula / esophageal atresia	30	1.57	1.06 -	2.24
Pyloric stenosis	284	14.85	13.12 -	16.57
Stenosis or atresia of the small intestine	55	2.88	2.17 -	3.74
Stenosis or atresia of large intestine, rectum, or anal canal	77	4.03	3.18 -	5.03
Hirschsprung disease	34	1.78	1.23 -	2.48
Biliary atresia	13	0.68	0.36 -	1.16

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R5. Prevalence of Selected Birth Defects, Texas Region 5, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Genitourinary				
Hypospadias (cases and prevalence among males)	561	57.35	52.60 -	62.09
Epispadias	14	0.73	0.40 -	1.23
Renal agenesis or dysgenesis	113	5.91	4.82 -	7.00
Bladder exstrophy	7	0.37	0.15 -	0.75
Musculoskeletal				
Congenital hip dislocation without hip dysplasia	60	3.14	2.39 -	4.04
Talipes equinovarus / clubfoot	289	15.11	13.37 -	16.85
Reduction defects of the upper limbs	73	3.82	2.99 -	4.80
Reduction defects of the lower limbs	29	1.52	1.02 -	2.18
Craniosynostosis	69	3.61	2.81 -	4.57
Achondroplasia	7	0.37	0.15 -	0.75
Diaphragmatic hernia	50	2.61	1.94 -	3.45
Omphalocele	29	1.52	1.02 -	2.18
Gastroschisis	107	5.59	4.53 -	6.65
Chromosomal				
Trisomy 21 (Down syndrome)	166	8.68	7.36 -	10.00
Trisomy 13 (Patau syndrome)	20	1.05	0.64 -	1.61
Trisomy 18 (Edwards syndrome)	24	1.25	0.80 -	1.87
Infants and fetuses with regular reportable birth defects				
	6307	329.72	321.58 -	337.85

[†] cases per 10,000 live births

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R6. Prevalence of Selected Birth Defects, Texas Region 6, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Central Nervous System				
Anencephaly	270	1.50	1.32 -	1.68
Spina bifida without anencephaly	577	3.21	2.95 -	3.47
Encephalocele	127	0.71	0.58 -	0.83
Microcephaly, severe (head circumference <3rd percentile)	667	3.71	3.43 -	3.99
Holoprosencephaly	128	0.71	0.59 -	0.84
Hydrocephaly without spina bifida	1106	6.15	5.79 -	6.51
Eye and Ear				
Anophthalmia	38	0.21	0.15 -	0.29
Microphthalmia	411	2.29	2.07 -	2.51
Cataract	284	1.58	1.40 -	1.76
Anotia or microtia	497	2.76	2.52 -	3.01
Cardiac and Circulatory				
Common truncus	108	0.60	0.49 -	0.71
Transposition of the great vessels	594	3.30	3.04 -	3.57
Double outlet right ventricle	415	2.31	2.09 -	2.53
Tetralogy of Fallot	641	3.57	3.29 -	3.84
Ventricular septal defect	9808	54.56	53.48 -	55.64
Atrial septal defect	10621	59.08	57.95 -	60.20
Atrioventricular septal defect (endocardial cushion defect)	716	3.98	3.69 -	4.27
Pulmonary valve atresia or stenosis	1222	6.80	6.42 -	7.18
Tricuspid valve atresia or stenosis	289	1.61	1.42 -	1.79
Ebstein anomaly	122	0.68	0.56 -	0.80
Aortic valve stenosis	352	1.96	1.75 -	2.16
Hypoplastic left heart syndrome	343	1.91	1.71 -	2.11
Patent ductus arteriosus	8526	47.42	46.42 -	48.43
Coarctation of the aorta	825	4.59	4.28 -	4.90
Respiratory				
Choanal atresia or stenosis	188	1.05	0.90 -	1.20
Agenesis, aplasia, or hypoplasia of the lung	471	2.62	2.38 -	2.86
Oral Clefts				
Cleft palate alone (without cleft lip)	915	5.09	4.76 -	5.42
Cleft lip with or without cleft palate	1582	8.80	8.37 -	9.23
Gastrointestinal				
Tracheoesophageal fistula / esophageal atresia	324	1.80	1.61 -	2.00
Pyloric stenosis	2583	14.37	13.81 -	14.92
Stenosis or atresia of the small intestine	460	2.56	2.32 -	2.79
Stenosis or atresia of large intestine, rectum, or anal canal	954	5.31	4.97 -	5.64
Hirschsprung disease	205	1.14	0.98 -	1.30
Biliary atresia	111	0.62	0.50 -	0.73

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R6. Prevalence of Selected Birth Defects, Texas Region 6, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Genitourinary				
Hypospadias (cases and prevalence among males)	5664	61.74	60.13 -	63.35
Epispadias	181	1.01	0.86 -	1.15
Renal agenesis or dysgenesis	927	5.16	4.82 -	5.49
Bladder exstrophy	26	0.14	0.09 -	0.21
Musculoskeletal				
Congenital hip dislocation without hip dysplasia	497	2.76	2.52 -	3.01
Talipes equinovarus / clubfoot	2743	15.26	14.69 -	15.83
Reduction defects of the upper limbs	563	3.13	2.87 -	3.39
Reduction defects of the lower limbs	241	1.34	1.17 -	1.51
Craniosynostosis	627	3.49	3.21 -	3.76
Achondroplasia	53	0.29	0.22 -	0.39
Diaphragmatic hernia	477	2.65	2.42 -	2.89
Omphalocele	319	1.77	1.58 -	1.97
Gastroschisis	752	4.18	3.88 -	4.48
Chromosomal				
Trisomy 21 (Down syndrome)	2182	12.14	11.63 -	12.65
Trisomy 13 (Patau syndrome)	158	0.88	0.74 -	1.02
Trisomy 18 (Edwards syndrome)	344	1.91	1.71 -	2.12
Infants and fetuses with regular reportable birth defects				
	73257	407.48	404.53 -	410.43

[†] cases per 10,000 live births

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R7. Prevalence of Selected Birth Defects, Texas Region 7, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Central Nervous System				
Anencephaly	205	2.55	2.20 -	2.90
Spina bifida without anencephaly	258	3.21	2.81 -	3.60
Encephalocele	61	0.76	0.58 -	0.97
Microcephaly, severe (head circumference <3rd percentile)	270	3.35	2.95 -	3.75
Holoprosencephaly	95	1.18	0.96 -	1.44
Hydrocephaly without spina bifida	559	6.95	6.37 -	7.52
Eye and Ear				
Anophthalmia	16	0.20	0.11 -	0.32
Microphthalmia	278	3.45	3.05 -	3.86
Cataract	134	1.66	1.38 -	1.95
Anotia or microtia	273	3.39	2.99 -	3.79
Cardiac and Circulatory				
Common truncus	60	0.75	0.57 -	0.96
Transposition of the great vessels	241	2.99	2.62 -	3.37
Double outlet right ventricle	150	1.86	1.57 -	2.16
Tetralogy of Fallot	288	3.58	3.17 -	3.99
Ventricular septal defect	4316	53.63	52.03 -	55.23
Atrial septal defect	2864	35.59	34.28 -	36.89
Atrioventricular septal defect (endocardial cushion defect)	325	4.04	3.60 -	4.48
Pulmonary valve atresia or stenosis	749	9.31	8.64 -	9.97
Tricuspid valve atresia or stenosis	115	1.43	1.17 -	1.69
Ebstein anomaly	62	0.77	0.59 -	0.99
Aortic valve stenosis	196	2.44	2.09 -	2.78
Hypoplastic left heart syndrome	163	2.03	1.71 -	2.34
Patent ductus arteriosus	3654	45.40	43.93 -	46.87
Coarctation of the aorta	379	4.71	4.24 -	5.18
Respiratory				
Choanal atresia or stenosis	101	1.25	1.01 -	1.50
Agenesis, aplasia, or hypoplasia of the lung	253	3.14	2.76 -	3.53
Oral Clefts				
Cleft palate alone (without cleft lip)	472	5.86	5.34 -	6.39
Cleft lip with or without cleft palate	846	10.51	9.80 -	11.22
Gastrointestinal				
Tracheoesophageal fistula / esophageal atresia	164	2.04	1.73 -	2.35
Pyloric stenosis	1058	13.15	12.35 -	13.94
Stenosis or atresia of the small intestine	290	3.60	3.19 -	4.02
Stenosis or atresia of large intestine, rectum, or anal canal	380	4.72	4.25 -	5.20
Hirschsprung disease	158	1.96	1.66 -	2.27
Biliary atresia	48	0.60	0.44 -	0.79

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R7. Prevalence of Selected Birth Defects, Texas Region 7, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Genitourinary				
Hypospadias (cases and prevalence among males)	2630	63.95	61.51 -	66.40
Epispadias	83	1.03	0.82 -	1.28
Renal agenesis or dysgenesis	459	5.70	5.18 -	6.22
Bladder exstrophy	20	0.25	0.15 -	0.38
Musculoskeletal				
Congenital hip dislocation without hip dysplasia	220	2.73	2.37 -	3.09
Talipes equinovarus / clubfoot	1054	13.10	12.31 -	13.89
Reduction defects of the upper limbs	348	4.32	3.87 -	4.78
Reduction defects of the lower limbs	167	2.08	1.76 -	2.39
Craniosynostosis	385	4.78	4.31 -	5.26
Achondroplasia	25	0.31	0.20 -	0.46
Diaphragmatic hernia	225	2.80	2.43 -	3.16
Omphalocele	159	1.98	1.67 -	2.28
Gastroschisis	429	5.33	4.83 -	5.83
Chromosomal				
Trisomy 21 (Down syndrome)	982	12.20	11.44 -	12.96
Trisomy 13 (Patau syndrome)	85	1.06	0.84 -	1.31
Trisomy 18 (Edwards syndrome)	222	2.76	2.40 -	3.12
Infants and fetuses with regular reportable birth defects				
	34339	426.67	422.16 -	431.18

[†] cases per 10,000 live births

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R8. Prevalence of Selected Birth Defects, Texas Region 8, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Central Nervous System				
Anencephaly	210	2.90	2.51 -	3.30
Spina bifida without anencephaly	302	4.18	3.70 -	4.65
Encephalocele	81	1.12	0.89 -	1.39
Microcephaly, severe (head circumference <3rd percentile)	403	5.57	5.03 -	6.12
Holoprosencephaly	89	1.23	0.99 -	1.51
Hydrocephaly without spina bifida	664	9.18	8.48 -	9.88
Eye and Ear				
Anophthalmia	22	0.30	0.19 -	0.46
Microphthalmia	230	3.18	2.77 -	3.59
Cataract	120	1.66	1.36 -	1.96
Anotia or microtia	323	4.47	3.98 -	4.95
Cardiac and Circulatory				
Common truncus	75	1.04	0.82 -	1.30
Transposition of the great vessels	272	3.76	3.31 -	4.21
Double outlet right ventricle	129	1.78	1.48 -	2.09
Tetralogy of Fallot	324	4.48	3.99 -	4.97
Ventricular septal defect	3991	55.18	53.47 -	56.90
Atrial septal defect	3972	54.92	53.21 -	56.63
Atrioventricular septal defect (endocardial cushion defect)	343	4.74	4.24 -	5.24
Pulmonary valve atresia or stenosis	717	9.91	9.19 -	10.64
Tricuspid valve atresia or stenosis	139	1.92	1.60 -	2.24
Ebstein anomaly	59	0.82	0.62 -	1.05
Aortic valve stenosis	196	2.71	2.33 -	3.09
Hypoplastic left heart syndrome	164	2.27	1.92 -	2.61
Patent ductus arteriosus	4471	61.82	60.01 -	63.63
Coarctation of the aorta	376	5.20	4.67 -	5.72
Respiratory				
Choanal atresia or stenosis	86	1.19	0.95 -	1.47
Agenesis, aplasia, or hypoplasia of the lung	357	4.94	4.42 -	5.45
Oral Clefts				
Cleft palate alone (without cleft lip)	502	6.94	6.33 -	7.55
Cleft lip with or without cleft palate	862	11.92	11.12 -	12.71
Gastrointestinal				
Tracheoesophageal fistula / esophageal atresia	180	2.49	2.13 -	2.85
Pyloric stenosis	1298	17.95	16.97 -	18.92
Stenosis or atresia of the small intestine	290	4.01	3.55 -	4.47
Stenosis or atresia of large intestine, rectum, or anal canal	475	6.57	5.98 -	7.16
Hirschsprung disease	97	1.34	1.09 -	1.64
Biliary atresia	72	1.00	0.78 -	1.25

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R8. Prevalence of Selected Birth Defects, Texas Region 8, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Genitourinary				
Hypospadias (cases and prevalence among males)	2193	59.43	56.94 -	61.92
Epispadias	106	1.47	1.19 -	1.74
Renal agenesis or dysgenesis	560	7.74	7.10 -	8.38
Bladder exstrophy	11	0.15	0.08 -	0.27
Musculoskeletal				
Congenital hip dislocation without hip dysplasia	136	1.88	1.56 -	2.20
Talipes equinovarus / clubfoot	1240	17.15	16.19 -	18.10
Reduction defects of the upper limbs	354	4.89	4.38 -	5.40
Reduction defects of the lower limbs	201	2.78	2.40 -	3.16
Craniosynostosis	490	6.78	6.18 -	7.38
Achondroplasia	22	0.30	0.19 -	0.46
Diaphragmatic hernia	223	3.08	2.68 -	3.49
Omphalocele	174	2.41	2.05 -	2.76
Gastroschisis	470	6.50	5.91 -	7.09
Chromosomal				
Trisomy 21 (Down syndrome)	1092	15.10	14.20 -	15.99
Trisomy 13 (Patau syndrome)	91	1.26	1.01 -	1.54
Trisomy 18 (Edwards syndrome)	202	2.79	2.41 -	3.18
Infants and fetuses with regular reportable birth defects	35243	487.31	482.22 -	492.39

[†] cases per 10,000 live births

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R9. Prevalence of Selected Birth Defects, Texas Region 9, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Central Nervous System				
Anencephaly	50	2.89	2.14 -	3.81
Spina bifida without anencephaly	57	3.29	2.49 -	4.27
Encephalocele	17	0.98	0.57 -	1.57
Microcephaly, severe (head circumference <3rd percentile)	56	3.24	2.44 -	4.20
Holoprosencephaly	21	1.21	0.75 -	1.85
Hydrocephaly without spina bifida	150	8.67	7.28 -	10.05
Eye and Ear				
Anophthalmia	5	0.29	0.09 -	0.67
Microphthalmia	54	3.12	2.34 -	4.07
Cataract	45	2.60	1.90 -	3.48
Anotia or microtia	52	3.00	2.24 -	3.94
Cardiac and Circulatory				
Common truncus	13	0.75	0.40 -	1.28
Transposition of the great vessels	60	3.47	2.65 -	4.46
Double outlet right ventricle	36	2.08	1.46 -	2.88
Tetralogy of Fallot	64	3.70	2.85 -	4.72
Ventricular septal defect	940	54.31	50.84 -	57.78
Atrial septal defect	2451	141.61	136.01 -	147.22
Atrioventricular septal defect (endocardial cushion defect)	67	3.87	3.00 -	4.92
Pulmonary valve atresia or stenosis	159	9.19	7.76 -	10.61
Tricuspid valve atresia or stenosis	26	1.50	0.98 -	2.20
Ebstein anomaly	18	1.04	0.62 -	1.64
Aortic valve stenosis	37	2.14	1.51 -	2.95
Hypoplastic left heart syndrome	42	2.43	1.75 -	3.28
Patent ductus arteriosus	1236	71.41	67.43 -	75.39
Coarctation of the aorta	89	5.14	4.13 -	6.33
Respiratory				
Choanal atresia or stenosis	18	1.04	0.62 -	1.64
Agenesis, aplasia, or hypoplasia of the lung	40	2.31	1.65 -	3.15
Oral Clefts				
Cleft palate alone (without cleft lip)	105	6.07	4.91 -	7.23
Cleft lip with or without cleft palate	230	13.29	11.57 -	15.01
Gastrointestinal				
Tracheoesophageal fistula / esophageal atresia	43	2.48	1.80 -	3.35
Pyloric stenosis	289	16.70	14.77 -	18.62
Stenosis or atresia of the small intestine	55	3.18	2.39 -	4.14
Stenosis or atresia of large intestine, rectum, or anal canal	107	6.18	5.01 -	7.35
Hirschsprung disease	24	1.39	0.89 -	2.06
Biliary atresia	13	0.75	0.40 -	1.28

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R9. Prevalence of Selected Birth Defects, Texas Region 9, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Genitourinary				
Hypospadias (cases and prevalence among males)	431	48.58	43.99 -	53.16
Epispadias	17	0.98	0.57 -	1.57
Renal agenesis or dysgenesis	98	5.66	4.60 -	6.90
Bladder exstrophy	2	0.12	0.01 -	0.42
Musculoskeletal				
Congenital hip dislocation without hip dysplasia	56	3.24	2.44 -	4.20
Talipes equinovarus / clubfoot	323	18.66	16.63 -	20.70
Reduction defects of the upper limbs	70	4.04	3.15 -	5.11
Reduction defects of the lower limbs	41	2.37	1.70 -	3.21
Craniosynostosis	117	6.76	5.54 -	7.98
Achondroplasia	6	0.35	0.13 -	0.75
Diaphragmatic hernia	45	2.60	1.90 -	3.48
Omphalocele	39	2.25	1.60 -	3.08
Gastroschisis	128	7.40	6.11 -	8.68
Chromosomal				
Trisomy 21 (Down syndrome)	184	10.63	9.09 -	12.17
Trisomy 13 (Patau syndrome)	26	1.50	0.98 -	2.20
Trisomy 18 (Edwards syndrome)	37	2.14	1.51 -	2.95
Infants and fetuses with regular reportable birth defects				
	7994	461.87	451.75 -	472.00

[†] cases per 10,000 live births

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R10. Prevalence of Selected Birth Defects, Texas Region 10, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Central Nervous System				
Anencephaly	88	3.26	2.61 -	4.01
Spina bifida without anencephaly	102	3.78	3.04 -	4.51
Encephalocele	19	0.70	0.42 -	1.10
Microcephaly, severe (head circumference <3rd percentile)	105	3.89	3.14 -	4.63
Holoprosencephaly	31	1.15	0.78 -	1.63
Hydrocephaly without spina bifida	203	7.51	6.48 -	8.55
Eye and Ear				
Anophthalmia	3	0.11	0.02 -	0.32
Microphthalmia	71	2.63	2.05 -	3.32
Cataract	38	1.41	1.00 -	1.93
Anotia or microtia	110	4.07	3.31 -	4.83
Cardiac and Circulatory				
Common truncus	24	0.89	0.57 -	1.32
Transposition of the great vessels	58	2.15	1.63 -	2.78
Double outlet right ventricle	48	1.78	1.31 -	2.36
Tetralogy of Fallot	86	3.18	2.55 -	3.93
Ventricular septal defect	1220	45.16	42.63 -	47.70
Atrial septal defect	954	35.32	33.08 -	37.56
Atrioventricular septal defect (endocardial cushion defect)	74	2.74	2.15 -	3.44
Pulmonary valve atresia or stenosis	143	5.29	4.43 -	6.16
Tricuspid valve atresia or stenosis	31	1.15	0.78 -	1.63
Ebstein anomaly	24	0.89	0.57 -	1.32
Aortic valve stenosis	65	2.41	1.86 -	3.07
Hypoplastic left heart syndrome	56	2.07	1.57 -	2.69
Patent ductus arteriosus	1273	47.13	44.54 -	49.71
Coarctation of the aorta	120	4.44	3.65 -	5.24
Respiratory				
Choanal atresia or stenosis	19	0.70	0.42 -	1.10
Agenesis, aplasia, or hypoplasia of the lung	52	1.93	1.44 -	2.52
Oral Clefts				
Cleft palate alone (without cleft lip)	135	5.00	4.15 -	5.84
Cleft lip with or without cleft palate	321	11.88	10.58 -	13.18
Gastrointestinal				
Tracheoesophageal fistula / esophageal atresia	68	2.52	1.95 -	3.19
Pyloric stenosis	498	18.44	16.82 -	20.05
Stenosis or atresia of the small intestine	84	3.11	2.48 -	3.85
Stenosis or atresia of large intestine, rectum, or anal canal	139	5.15	4.29 -	6.00
Hirschsprung disease	28	1.04	0.69 -	1.50
Biliary atresia	22	0.81	0.51 -	1.23

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R10. Prevalence of Selected Birth Defects, Texas Region 10, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Genitourinary				
Hypospadias (cases and prevalence among males)	563	40.93	37.55 -	44.31
Epispadias	51	1.89	1.41 -	2.48
Renal agenesis or dysgenesis	157	5.81	4.90 -	6.72
Bladder exstrophy	2	0.07	0.01 -	0.27
Musculoskeletal				
Congenital hip dislocation without hip dysplasia	138	5.11	4.26 -	5.96
Talipes equinovarus / clubfoot	432	15.99	14.48 -	17.50
Reduction defects of the upper limbs	99	3.66	2.98 -	4.46
Reduction defects of the lower limbs	56	2.07	1.57 -	2.69
Craniosynostosis	211	7.81	6.76 -	8.87
Achondroplasia	14	0.52	0.28 -	0.87
Diaphragmatic hernia	71	2.63	2.05 -	3.32
Omphalocele	54	2.00	1.50 -	2.61
Gastroschisis	149	5.52	4.63 -	6.40
Chromosomal				
Trisomy 21 (Down syndrome)	405	14.99	13.53 -	16.45
Trisomy 13 (Patau syndrome)	41	1.52	1.09 -	2.06
Trisomy 18 (Edwards syndrome)	58	2.15	1.63 -	2.78
Infants and fetuses with regular reportable birth defects				
	10363	383.63	376.25 -	391.02

[†] cases per 10,000 live births

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R11. Prevalence of Selected Birth Defects, Texas Region 11, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Central Nervous System				
Anencephaly	264	3.47	3.05 -	3.88
Spina bifida without anencephaly	375	4.92	4.43 -	5.42
Encephalocele	94	1.23	1.00 -	1.51
Microcephaly, severe (head circumference <3rd percentile)	264	3.47	3.05 -	3.88
Holoprosencephaly	112	1.47	1.20 -	1.74
Hydrocephaly without spina bifida	707	9.28	8.60 -	9.97
Eye and Ear				
Anophthalmia	41	0.54	0.39 -	0.73
Microphthalmia	191	2.51	2.15 -	2.86
Cataract	80	1.05	0.83 -	1.31
Anotia or microtia	301	3.95	3.51 -	4.40
Cardiac and Circulatory				
Common truncus	85	1.12	0.89 -	1.38
Transposition of the great vessels	288	3.78	3.34 -	4.22
Double outlet right ventricle	229	3.01	2.62 -	3.40
Tetralogy of Fallot	357	4.69	4.20 -	5.17
Ventricular septal defect	7420	97.42	95.20 -	99.64
Atrial septal defect	9505	124.80	122.29 -	127.30
Atrioventricular septal defect (endocardial cushion defect)	334	4.39	3.91 -	4.86
Pulmonary valve atresia or stenosis	1268	16.65	15.73 -	17.56
Tricuspid valve atresia or stenosis	180	2.36	2.02 -	2.71
Ebstein anomaly	82	1.08	0.86 -	1.34
Aortic valve stenosis	279	3.66	3.23 -	4.09
Hypoplastic left heart syndrome	165	2.17	1.84 -	2.50
Patent ductus arteriosus	8672	113.86	111.46 -	116.26
Coarctation of the aorta	603	7.92	7.29 -	8.55
Respiratory				
Choanal atresia or stenosis	110	1.44	1.17 -	1.71
Agenesis, aplasia, or hypoplasia of the lung	318	4.18	3.72 -	4.63
Oral Clefts				
Cleft palate alone (without cleft lip)	424	5.57	5.04 -	6.10
Cleft lip with or without cleft palate	884	11.61	10.84 -	12.37
Gastrointestinal				
Tracheoesophageal fistula / esophageal atresia	180	2.36	2.02 -	2.71
Pyloric stenosis	1683	22.10	21.04 -	23.15
Stenosis or atresia of the small intestine	295	3.87	3.43 -	4.32
Stenosis or atresia of large intestine, rectum, or anal canal	466	6.12	5.56 -	6.67
Hirschsprung disease	82	1.08	0.86 -	1.34
Biliary atresia	62	0.81	0.62 -	1.04

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table R11. Prevalence of Selected Birth Defects, Texas Region 11, 1999-2017

Birth Defect	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Genitourinary				
Hypospadias (cases and prevalence among males)	1693	43.50	41.43 -	45.58
Epispadias	72	0.95	0.74 -	1.19
Renal agenesis or dysgenesis	533	7.00	6.40 -	7.59
Bladder exstrophy	11	0.14	0.07 -	0.26
Musculoskeletal				
Congenital hip dislocation without hip dysplasia	150	1.97	1.65 -	2.28
Talipes equinovarus / clubfoot	1292	16.96	16.04 -	17.89
Reduction defects of the upper limbs	311	4.08	3.63 -	4.54
Reduction defects of the lower limbs	135	1.77	1.47 -	2.07
Craniosynostosis	366	4.81	4.31 -	5.30
Achondroplasia	17	0.22	0.13 -	0.36
Diaphragmatic hernia	215	2.82	2.45 -	3.20
Omphalocele	189	2.48	2.13 -	2.84
Gastroschisis	473	6.21	5.65 -	6.77
Chromosomal				
Trisomy 21 (Down syndrome)	1162	15.26	14.38 -	16.13
Trisomy 13 (Patau syndrome)	93	1.22	0.99 -	1.50
Trisomy 18 (Edwards syndrome)	220	2.89	2.51 -	3.27
Infants and fetuses with regular reportable birth defects				
	37894	497.53	492.52 -	502.54

[†] cases per 10,000 live births