

Texas Birth Defects Registry (TBDR) Annual Report

Table 3. Prevalence of Selected Birth Defects by Mother's Age, Texas, 1999–2023

Birth Defect	Mother's Age (at delivery)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
<i>Central Nervous System</i>				
Anencephaly	<20 years	321	3.13	2.79 – 3.47
	20-24 years	621	2.56	2.36 – 2.76
	25-29 years	664	2.49	2.30 – 2.68
	30-34 years	472	2.14	1.95 – 2.34
	35-39 years	200	1.92	1.65 – 2.19
	40+ years	62	2.69	2.06 – 3.44
Spina bifida (without anencephaly)	<20 years	345	3.37	3.01 – 3.72
	20-24 years	890	3.66	3.42 – 3.91
	25-29 years	998	3.74	3.51 – 3.97
	30-34 years	826	3.75	3.50 – 4.01
	35-39 years	420	4.03	3.65 – 4.42
	40+ years	108	4.68	3.80 – 5.56
Encephalocele	<20 years	128	1.25	1.03 – 1.46
	20-24 years	251	1.03	0.91 – 1.16
	25-29 years	240	0.90	0.79 – 1.01
	30-34 years	186	0.84	0.72 – 0.97
	35-39 years	111	1.07	0.87 – 1.26
	40+ years	33	1.43	0.98 – 2.01
Microcephaly (severe, head circumference <3rd percentile)	<20 years	714	6.96	6.45 – 7.48
	20-24 years	1,464	6.03	5.72 – 6.34
	25-29 years	1,305	4.89	4.63 – 5.16
	30-34 years	1,021	4.64	4.35 – 4.92
	35-39 years	571	5.48	5.03 – 5.93
	40+ years	203	8.80	7.59 – 10.01
Holoprosencephaly	<20 years	121	1.18	0.97 – 1.39
	20-24 years	231	0.95	0.83 – 1.07
	25-29 years	252	0.94	0.83 – 1.06
	30-34 years	213	0.97	0.84 – 1.10
	35-39 years	125	1.20	0.99 – 1.41
	40+ years	41	1.78	1.28 – 2.41
Hydrocephaly (without spina bifida)	<20 years	946	9.23	8.64 – 9.82
	20-24 years	1,899	7.82	7.47 – 8.17
	25-29 years	2,099	7.87	7.53 – 8.21
	30-34 years	1,776	8.07	7.69 – 8.44
	35-39 years	989	9.49	8.90 – 10.08
	40+ years	314	13.61	12.10 – 15.11
<i>Eye & Ear</i>				
Anophthalmia or Microphthalmia	<20 years	301	2.94	2.60 – 3.27
	20-24 years	622	2.56	2.36 – 2.76
	25-29 years	692	2.59	2.40 – 2.79
	30-34 years	613	2.78	2.56 – 3.00
	35-39 years	404	3.88	3.50 – 4.26
	40+ years	210	9.10	7.87 – 10.33

Birth Defect	Mother's Age (at delivery)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Cataract	<20 years	182	1.78	1.52 – 2.03
	20-24 years	458	1.89	1.71 – 2.06
	25-29 years	520	1.95	1.78 – 2.12
	30-34 years	428	1.94	1.76 – 2.13
	35-39 years	248	2.38	2.08 – 2.68
	40+ years	80	3.47	2.75 – 4.32
Anotia or Microtia	<20 years	317	3.09	2.75 – 3.43
	20-24 years	861	3.54	3.31 – 3.78
	25-29 years	930	3.49	3.26 – 3.71
	30-34 years	900	4.09	3.82 – 4.35
	35-39 years	457	4.39	3.98 – 4.79
	40+ years	143	6.20	5.18 – 7.21
<i>Cardiovascular</i>				
Common truncus	<20 years	69	0.67	0.52 – 0.85
	20-24 years	180	0.74	0.63 – 0.85
	25-29 years	185	0.69	0.59 – 0.79
	30-34 years	196	0.89	0.77 – 1.01
	35-39 years	93	0.89	0.72 – 1.09
	40+ years	28	1.21	0.81 – 1.75
Transposition of the great vessels	<20 years	297	2.90	2.57 – 3.23
	20-24 years	724	2.98	2.76 – 3.20
	25-29 years	909	3.41	3.19 – 3.63
	30-34 years	765	3.47	3.23 – 3.72
	35-39 years	384	3.69	3.32 – 4.05
	40+ years	105	4.55	3.68 – 5.42
Double outlet right ventricle	<20 years	228	2.22	1.94 – 2.51
	20-24 years	513	2.11	1.93 – 2.29
	25-29 years	632	2.37	2.18 – 2.55
	30-34 years	497	2.26	2.06 – 2.46
	35-39 years	317	3.04	2.71 – 3.38
	40+ years	126	5.46	4.51 – 6.41
Tetralogy of Fallot	<20 years	346	3.37	3.02 – 3.73
	20-24 years	867	3.57	3.33 – 3.81
	25-29 years	978	3.67	3.44 – 3.90
	30-34 years	912	4.14	3.87 – 4.41
	35-39 years	562	5.39	4.95 – 5.84
	40+ years	224	9.71	8.44 – 10.98
Ventricular septal defect	<20 years	5,624	54.86	53.42 – 56.29
	20-24 years	13,904	57.25	56.29 – 58.20
	25-29 years	15,901	59.61	58.68 – 60.54
	30-34 years	14,188	64.44	63.38 – 65.50
	35-39 years	8,466	81.25	79.52 – 82.98
	40+ years	2,790	120.92	116.44 – 125.41
Atrial septal defect	<20 years	6,922	67.52	65.93 – 69.11
	20-24 years	17,109	70.44	69.39 – 71.50
	25-29 years	18,946	71.03	70.02 – 72.04
	30-34 years	16,067	72.98	71.85 – 74.11
	35-39 years	9,809	94.14	92.28 – 96.01
	40+ years	3,447	149.40	144.41 – 154.39

Birth Defect	Mother's Age (at delivery)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Atrioventricular septal defect	<20 years	354	3.45	3.09 – 3.81
	20-24 years	827	3.40	3.17 – 3.64
	25-29 years	945	3.54	3.32 – 3.77
	30-34 years	938	4.26	3.99 – 4.53
	35-39 years	780	7.49	6.96 – 8.01
	40+ years	441	19.11	17.33 – 20.90
Pulmonary valve atresia or stenosis	<20 years	959	9.35	8.76 – 9.95
	20-24 years	2,356	9.70	9.31 – 10.09
	25-29 years	2,543	9.53	9.16 – 9.90
	30-34 years	2,314	10.51	10.08 – 10.94
	35-39 years	1,285	12.33	11.66 – 13.01
	40+ years	419	18.16	16.42 – 19.90
Tricuspid valve atresia or stenosis	<20 years	164	1.60	1.35 – 1.84
	20-24 years	464	1.91	1.74 – 2.08
	25-29 years	494	1.85	1.69 – 2.02
	30-34 years	428	1.94	1.76 – 2.13
	35-39 years	258	2.48	2.17 – 2.78
	40+ years	86	3.73	2.98 – 4.60
Ebstein anomaly	<20 years	68	0.66	0.52 – 0.84
	20-24 years	154	0.63	0.53 – 0.73
	25-29 years	198	0.74	0.64 – 0.85
	30-34 years	186	0.84	0.72 – 0.97
	35-39 years	93	0.89	0.72 – 1.09
	40+ years	35	1.52	1.06 – 2.11
Aortic valve stenosis	<20 years	189	1.84	1.58 – 2.11
	20-24 years	546	2.25	2.06 – 2.44
	25-29 years	648	2.43	2.24 – 2.62
	30-34 years	565	2.57	2.35 – 2.78
	35-39 years	323	3.10	2.76 – 3.44
	40+ years	73	3.16	2.48 – 3.98
Hypoplastic left heart syndrome	<20 years	215	2.10	1.82 – 2.38
	20-24 years	523	2.15	1.97 – 2.34
	25-29 years	600	2.25	2.07 – 2.43
	30-34 years	482	2.19	1.99 – 2.38
	35-39 years	231	2.22	1.93 – 2.50
	40+ years	80	3.47	2.75 – 4.32
Patent ductus arteriosus	<20 years	5,021	48.98	47.62 – 50.33
	20-24 years	11,992	49.37	48.49 – 50.26
	25-29 years	13,529	50.72	49.86 – 51.57
	30-34 years	11,760	53.41	52.45 – 54.38
	35-39 years	7,509	72.07	70.44 – 73.70
	40+ years	2,975	128.94	124.31 – 133.58
Coarctation of the aorta	<20 years	486	4.74	4.32 – 5.16
	20-24 years	1,112	4.58	4.31 – 4.85
	25-29 years	1,450	5.44	5.16 – 5.72
	30-34 years	1,157	5.26	4.95 – 5.56
	35-39 years	678	6.51	6.02 – 7.00
	40+ years	230	9.97	8.68 – 11.26

Birth Defect	Mother's Age (at delivery)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
<i>Respiratory</i>				
Choanal atresia or stenosis	<20 years	104	1.01	0.82 – 1.21
	20-24 years	284	1.17	1.03 – 1.31
	25-29 years	317	1.19	1.06 – 1.32
	30-34 years	337	1.53	1.37 – 1.69
	35-39 years	158	1.52	1.28 – 1.75
	40+ years	47	2.04	1.50 – 2.71
Agenesis, aplasia, or hypoplasia of the lung	<20 years	344	3.36	3.00 – 3.71
	20-24 years	726	2.99	2.77 – 3.21
	25-29 years	750	2.81	2.61 – 3.01
	30-34 years	544	2.47	2.26 – 2.68
	35-39 years	315	3.02	2.69 – 3.36
	40+ years	86	3.73	2.98 – 4.60
<i>Orofacial</i>				
Cleft palate alone (without cleft lip)	<20 years	515	5.02	4.59 – 5.46
	20-24 years	1,396	5.75	5.45 – 6.05
	25-29 years	1,565	5.87	5.58 – 6.16
	30-34 years	1,308	5.94	5.62 – 6.26
	35-39 years	712	6.83	6.33 – 7.34
	40+ years	210	9.10	7.87 – 10.33
Cleft lip alone (without cleft palate)	<20 years	343	3.35	2.99 – 3.70
	20-24 years	821	3.38	3.15 – 3.61
	25-29 years	850	3.19	2.97 – 3.40
	30-34 years	757	3.44	3.19 – 3.68
	35-39 years	356	3.42	3.06 – 3.77
	40+ years	98	4.25	3.45 – 5.18
Cleft lip with cleft palate	<20 years	861	8.40	7.84 – 8.96
	20-24 years	1,831	7.54	7.19 – 7.88
	25-29 years	1,868	7.00	6.69 – 7.32
	30-34 years	1,467	6.66	6.32 – 7.00
	35-39 years	783	7.51	6.99 – 8.04
	40+ years	280	12.14	10.71 – 13.56
<i>Gastrointestinal</i>				
Esophageal atresia/ tracheoesophageal fistula	<20 years	228	2.22	1.94 – 2.51
	20-24 years	457	1.88	1.71 – 2.05
	25-29 years	515	1.93	1.76 – 2.10
	30-34 years	495	2.25	2.05 – 2.45
	35-39 years	309	2.97	2.63 – 3.30
	40+ years	125	5.42	4.47 – 6.37
Pyloric stenosis	<20 years	2,265	22.09	21.18 – 23.00
	20-24 years	4,511	18.57	18.03 – 19.11
	25-29 years	3,970	14.88	14.42 – 15.35
	30-34 years	2,854	12.96	12.49 – 13.44
	35-39 years	1,281	12.29	11.62 – 12.97
	40+ years	245	10.62	9.29 – 11.95

Birth Defect	Mother's Age (at delivery)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Stenosis or atresia of the small intestine	<20 years	434	4.23	3.84 – 4.63
	20-24 years	846	3.48	3.25 – 3.72
	25-29 years	788	2.95	2.75 – 3.16
	30-34 years	655	2.98	2.75 – 3.20
	35-39 years	448	4.30	3.90 – 4.70
	40+ years	202	8.76	7.55 – 9.96
Stenosis or atresia of large intestine, rectum, or anal canal	<20 years	581	5.67	5.21 – 6.13
	20-24 years	1,272	5.24	4.95 – 5.52
	25-29 years	1,278	4.79	4.53 – 5.05
	30-34 years	1,124	5.11	4.81 – 5.40
	35-39 years	677	6.50	6.01 – 6.99
	40+ years	201	8.71	7.51 – 9.92
Hirschsprung disease	<20 years	118	1.15	0.94 – 1.36
	20-24 years	358	1.47	1.32 – 1.63
	25-29 years	362	1.36	1.22 – 1.50
	30-34 years	306	1.39	1.23 – 1.55
	35-39 years	199	1.91	1.64 – 2.18
	40+ years	53	2.30	1.72 – 3.00
Biliary atresia	<20 years	73	0.71	0.56 – 0.90
	20-24 years	190	0.78	0.67 – 0.89
	25-29 years	179	0.67	0.57 – 0.77
	30-34 years	146	0.66	0.56 – 0.77
	35-39 years	68	0.65	0.51 – 0.83
	40+ years	19	0.82	0.50 – 1.29
<i>Genitourinary</i>				
Hypospadias (among males)	<20 years	2,778	52.89	50.93 – 54.86
	20-24 years	6,919	55.81	54.49 – 57.12
	25-29 years	8,663	63.49	62.15 – 64.82
	30-34 years	7,765	69.08	67.54 – 70.61
	35-39 years	3,833	71.92	69.64 – 74.20
	40+ years	935	79.70	74.59 – 84.81
Renal agenesis or dysgenesis	<20 years	589	5.75	5.28 – 6.21
	20-24 years	1,516	6.24	5.93 – 6.56
	25-29 years	1,748	6.55	6.25 – 6.86
	30-34 years	1,510	6.86	6.51 – 7.20
	35-39 years	850	8.16	7.61 – 8.71
	40+ years	232	10.06	8.76 – 11.35
Bladder exstrophy	<20 years	21	0.20	0.13 – 0.31
	20-24 years	42	0.17	0.12 – 0.23
	25-29 years	46	0.17	0.13 – 0.23
	30-34 years	42	0.19	0.14 – 0.26
	35-39 years	19	0.18	0.11 – 0.28
	40+ years	5	0.22	0.07 – 0.51

Birth Defect	Mother's Age (at delivery)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
<i>Musculoskeletal</i>				
Congenital hip dislocation (without hip dysplasia)	<20 years	218	2.13	1.84 – 2.41
	20-24 years	538	2.22	2.03 – 2.40
	25-29 years	602	2.26	2.08 – 2.44
	30-34 years	544	2.47	2.26 – 2.68
	35-39 years	304	2.92	2.59 – 3.25
	40+ years	89	3.86	3.10 – 4.75
Talipes equinovarus (clubfoot)	<20 years	1,760	17.17	16.37 – 17.97
	20-24 years	4,226	17.40	16.87 – 17.92
	25-29 years	4,466	16.74	16.25 – 17.23
	30-34 years	3,582	16.27	15.74 – 16.80
	35-39 years	1,895	18.19	17.37 – 19.01
	40+ years	570	24.70	22.68 – 26.73
Reduction defects of the upper limbs	<20 years	548	5.35	4.90 – 5.79
	20-24 years	1,022	4.21	3.95 – 4.47
	25-29 years	1,025	3.84	3.61 – 4.08
	30-34 years	859	3.90	3.64 – 4.16
	35-39 years	397	3.81	3.44 – 4.19
	40+ years	139	6.02	5.02 – 7.03
Reduction defects of the lower limbs	<20 years	283	2.76	2.44 – 3.08
	20-24 years	493	2.03	1.85 – 2.21
	25-29 years	527	1.98	1.81 – 2.14
	30-34 years	388	1.76	1.59 – 1.94
	35-39 years	169	1.62	1.38 – 1.87
	40+ years	50	2.17	1.61 – 2.86
Craniosynostosis	<20 years	403	3.93	3.55 – 4.31
	20-24 years	1,165	4.80	4.52 – 5.07
	25-29 years	1,537	5.76	5.47 – 6.05
	30-34 years	1,456	6.61	6.27 – 6.95
	35-39 years	770	7.39	6.87 – 7.91
	40+ years	198	8.58	7.39 – 9.78
Achondroplasia	<20 years	15	0.15	0.08 – 0.24
	20-24 years	70	0.29	0.22 – 0.36
	25-29 years	101	0.38	0.30 – 0.45
	30-34 years	105	0.48	0.39 – 0.57
	35-39 years	47	0.45	0.33 – 0.60
	40+ years	20	0.87	0.53 – 1.34
Diaphragmatic hernia	<20 years	283	2.76	2.44 – 3.08
	20-24 years	668	2.75	2.54 – 2.96
	25-29 years	770	2.89	2.68 – 3.09
	30-34 years	610	2.77	2.55 – 2.99
	35-39 years	332	3.19	2.84 – 3.53
	40+ years	96	4.16	3.37 – 5.08
Omphalocele	<20 years	227	2.21	1.93 – 2.50
	20-24 years	480	1.98	1.80 – 2.15
	25-29 years	508	1.90	1.74 – 2.07
	30-34 years	434	1.97	1.79 – 2.16
	35-39 years	293	2.81	2.49 – 3.13
	40+ years	144	6.24	5.22 – 7.26

Birth Defect	Mother's Age (at delivery)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Gastroschisis	<20 years	1,667	16.26	15.48 – 17.04
	20-24 years	1,969	8.11	7.75 – 8.46
	25-29 years	796	2.98	2.78 – 3.19
	30-34 years	260	1.18	1.04 – 1.32
	35-39 years	89	0.85	0.69 – 1.05
	40+ years	25	1.08	0.70 – 1.60
<i>Chromosomal</i>				
Down syndrome (trisomy 21)	<20 years	770	7.51	6.98 – 8.04
	20-24 years	1,682	6.93	6.59 – 7.26
	25-29 years	1,974	7.40	7.07 – 7.73
	30-34 years	2,643	12.00	11.55 – 12.46
	35-39 years	3,651	35.04	33.90 – 36.18
	40+ years	2,723	118.02	113.59 – 122.45
Patau syndrome (trisomy 13)	<20 years	72	0.70	0.55 – 0.88
	20-24 years	213	0.88	0.76 – 0.99
	25-29 years	219	0.82	0.71 – 0.93
	30-34 years	226	1.03	0.89 – 1.16
	35-39 years	251	2.41	2.11 – 2.71
	40+ years	115	4.98	4.07 – 5.90
Edwards syndrome (trisomy 18)	<20 years	131	1.28	1.06 – 1.50
	20-24 years	320	1.32	1.17 – 1.46
	25-29 years	354	1.33	1.19 – 1.47
	30-34 years	381	1.73	1.56 – 1.90
	35-39 years	629	6.04	5.57 – 6.51
	40+ years	547	23.71	21.72 – 25.69
<i>Infants & fetuses with regular reportable birth defects</i>	<20 years	44,782	436.81	432.77 – 440.86
	20-24 years	111,135	457.56	454.87 – 460.25
	25-29 years	128,438	481.50	478.87 – 484.13
	30-34 years	113,697	516.42	513.42 – 519.42
	35-39 years	62,924	603.92	599.20 – 608.64
	40+ years	18,069	783.15	771.73 – 794.57

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/methods.pdf>

A visualization of these data is available at the following link:

<https://tabexternal.dshs.texas.gov/t/BirthDefects/views/TBDRAnnualReport1999-2023/MothersAge?:embed=y>

Prepared by: Texas Birth Defects Registry, Birth Defects Epidemiology and Surveillance Branch, Texas Department of State Health Services, August 2026.