

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries
 Table 3. Prevalence of Selected Birth Defects by Mother's Age, Texas, 1999-2017

Birth Defect	Mother's Age	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Central Nervous System					
Anencephaly * (p<0.0001)	< 20	272	3.06	2.70 -	3.42
	20-24	529	2.71	2.48 -	2.95
	25-29	517	2.57	2.35 -	2.79
	30-34	348	2.19	1.96 -	2.42
	35-39	148	2.03	1.70 -	2.36
	40 +	42	2.64	1.90 -	3.56
Spina bifida without anencephaly	< 20	301	3.39	3.00 -	3.77
	20-24	708	3.63	3.37 -	3.90
	25-29	746	3.71	3.45 -	3.98
	30-34	613	3.86	3.56 -	4.17
	35-39	299	4.10	3.64 -	4.57
	40 +	73	4.58	3.59 -	5.76
Encephalocele	< 20	104	1.17	0.95 -	1.40
	20-24	191	0.98	0.84 -	1.12
	25-29	171	0.85	0.72 -	0.98
	30-34	131	0.83	0.68 -	0.97
	35-39	75	1.03	0.81 -	1.29
	40 +	18	1.13	0.67 -	1.79
Microcephaly, severe (head circumference <3rd percentile) * (p<0.0001)	< 20	513	5.77	5.27 -	6.27
	20-24	934	4.79	4.49 -	5.10
	25-29	787	3.92	3.64 -	4.19
	30-34	620	3.91	3.60 -	4.22
	35-39	330	4.53	4.04 -	5.02
	40 +	111	6.97	5.67 -	8.26
Holoprosencephaly * (p=0.003)	< 20	105	1.18	0.96 -	1.41
	20-24	182	0.93	0.80 -	1.07
	25-29	188	0.94	0.80 -	1.07
	30-34	165	1.04	0.88 -	1.20
	35-39	99	1.36	1.10 -	1.65
	40 +	27	1.69	1.12 -	2.47
Hydrocephaly without spina bifida * (p<0.0001)	< 20	775	8.72	8.11 -	9.34
	20-24	1427	7.32	6.94 -	7.70
	25-29	1480	7.36	6.99 -	7.74
	30-34	1169	7.37	6.95 -	7.79
	35-39	639	8.77	8.09 -	9.45
	40 +	201	12.61	10.87 -	14.36
Eye and Ear					
Anophthalmia * (p=0.001)	< 20	45	0.51	0.37 -	0.68
	20-24	48	0.25	0.18 -	0.33
	25-29	54	0.27	0.20 -	0.35
	30-34	36	0.23	0.16 -	0.31
	35-39	21	0.29	0.18 -	0.44
	40 +	10	0.63	0.30 -	1.15

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Microphthalmia * (p<0.0001)	< 20	212	2.39	2.06 -	2.71
	20-24	455	2.33	2.12 -	2.55
	25-29	472	2.35	2.14 -	2.56
	30-34	428	2.70	2.44 -	2.95
	35-39	279	3.83	3.38 -	4.28
	40 +	135	8.47	7.04 -	9.90
Cataract * (p<0.0001)	< 20	153	1.72	1.45 -	1.99
	20-24	356	1.83	1.64 -	2.02
	25-29	375	1.87	1.68 -	2.05
	30-34	278	1.75	1.55 -	1.96
	35-39	166	2.28	1.93 -	2.62
	40 +	56	3.51	2.65 -	4.56
Anotia or microtia * (p<0.0001)	< 20	262	2.95	2.59 -	3.31
	20-24	628	3.22	2.97 -	3.47
	25-29	637	3.17	2.92 -	3.42
	30-34	581	3.66	3.36 -	3.96
	35-39	299	4.10	3.64 -	4.57
	40 +	87	5.46	4.37 -	6.73
Cardiac and Circulatory					
Common truncus	< 20	56	0.63	0.48 -	0.82
	20-24	143	0.73	0.61 -	0.85
	25-29	141	0.70	0.59 -	0.82
	30-34	135	0.85	0.71 -	0.99
	35-39	61	0.84	0.64 -	1.08
	40 +	17	1.07	0.62 -	1.71
Transposition of the great vessels * (p=0.0001)	< 20	260	2.93	2.57 -	3.28
	20-24	611	3.14	2.89 -	3.38
	25-29	696	3.46	3.21 -	3.72
	30-34	574	3.62	3.32 -	3.91
	35-39	284	3.90	3.44 -	4.35
	40 +	76	4.77	3.76 -	5.97
Double outlet right ventricle * (p<0.0001)	< 20	185	2.08	1.78 -	2.38
	20-24	389	2.00	1.80 -	2.19
	25-29	443	2.20	2.00 -	2.41
	30-34	317	2.00	1.78 -	2.22
	35-39	210	2.88	2.49 -	3.27
	40 +	83	5.21	4.15 -	6.46
Tetralogy of Fallot * (p<0.0001)	< 20	291	3.27	2.90 -	3.65
	20-24	669	3.43	3.17 -	3.69
	25-29	700	3.48	3.23 -	3.74
	30-34	628	3.96	3.65 -	4.27
	35-39	389	5.34	4.81 -	5.87
	40 +	155	9.73	8.20 -	11.26

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Ventricular septal defect * (p<0.0001)	< 20	4671	52.56	51.06 -	54.07
	20-24	10555	54.17	53.13 -	55.20
	25-29	11149	55.48	54.45 -	56.51
	30-34	9646	60.79	59.58 -	62.01
	35-39	5625	77.18	75.16 -	79.20
	40 +	1830	114.84	109.58 -	120.10
Atrial septal defect * (p<0.0001)	< 20	5553	62.49	60.84 -	64.13
	20-24	12446	63.87	62.75 -	64.99
	25-29	12712	63.26	62.16 -	64.36
	30-34	10446	65.84	64.57 -	67.10
	35-39	6159	84.51	82.40 -	86.62
	40 +	2193	137.62	131.86 -	143.38
Atrioventricular septal defect (endocardial cushion defect) * (p<0.0001)	< 20	302	3.40	3.02 -	3.78
	20-24	640	3.28	3.03 -	3.54
	25-29	711	3.54	3.28 -	3.80
	30-34	657	4.14	3.82 -	4.46
	35-39	547	7.51	6.88 -	8.13
	40 +	311	19.52	17.35 -	21.69
Pulmonary valve atresia or stenosis * (p<0.0001)	< 20	789	8.88	8.26 -	9.50
	20-24	1801	9.24	8.82 -	9.67
	25-29	1774	8.83	8.42 -	9.24
	30-34	1541	9.71	9.23 -	10.20
	35-39	850	11.66	10.88 -	12.45
	40 +	254	15.94	13.98 -	17.90
Tricuspid valve atresia or stenosis * (p<0.0001)	< 20	136	1.53	1.27 -	1.79
	20-24	349	1.79	1.60 -	1.98
	25-29	337	1.68	1.50 -	1.86
	30-34	282	1.78	1.57 -	1.98
	35-39	157	2.15	1.82 -	2.49
	40 +	56	3.51	2.65 -	4.56
Ebstein anomaly * (p=0.0038)	< 20	62	0.70	0.53 -	0.89
	20-24	116	0.60	0.49 -	0.70
	25-29	155	0.77	0.65 -	0.89
	30-34	120	0.76	0.62 -	0.89
	35-39	54	0.74	0.56 -	0.97
	40 +	25	1.57	1.02 -	2.32
Aortic valve stenosis * (p<0.0001)	< 20	166	1.87	1.58 -	2.15
	20-24	429	2.20	1.99 -	2.41
	25-29	463	2.30	2.09 -	2.51
	30-34	403	2.54	2.29 -	2.79
	35-39	230	3.16	2.75 -	3.56
	40 +	50	3.14	2.33 -	4.14

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Hypoplastic left heart syndrome * (p=0.0328)	< 20	182	2.05	1.75 -	2.35
	20-24	426	2.19	1.98 -	2.39
	25-29	439	2.18	1.98 -	2.39
	30-34	366	2.31	2.07 -	2.54
	35-39	161	2.21	1.87 -	2.55
	40 +	56	3.51	2.65 -	4.56
Patent ductus arteriosus * (p<0.0001)	< 20	4504	50.68	49.20 -	52.16
	20-24	10254	52.62	51.60 -	53.64
	25-29	11098	55.23	54.20 -	56.25
	30-34	9485	59.78	58.58 -	60.98
	35-39	5970	81.91	79.84 -	83.99
	40 +	2349	147.41	141.44 -	153.37
Coarctation of the aorta * (p<0.0001)	< 20	415	4.67	4.22 -	5.12
	20-24	874	4.49	4.19 -	4.78
	25-29	1072	5.33	5.02 -	5.65
	30-34	816	5.14	4.79 -	5.50
	35-39	452	6.20	5.63 -	6.77
	40 +	156	9.79	8.25 -	11.33
Respiratory					
Choanal atresia or stenosis * (p=0.0017)	< 20	90	1.01	0.81 -	1.24
	20-24	223	1.14	0.99 -	1.29
	25-29	239	1.19	1.04 -	1.34
	30-34	234	1.47	1.29 -	1.66
	35-39	108	1.48	1.20 -	1.76
	40 +	29	1.82	1.22 -	2.61
Agenesis, aplasia, or hypoplasia of the lung * (p=0.0009)	< 20	305	3.43	3.05 -	3.82
	20-24	604	3.10	2.85 -	3.35
	25-29	605	3.01	2.77 -	3.25
	30-34	422	2.66	2.41 -	2.91
	35-39	243	3.33	2.91 -	3.75
	40 +	67	4.20	3.26 -	5.34
Oral Clefts					
Cleft palate alone (without cleft lip) * (p<0.0001)	< 20	442	4.97	4.51 -	5.44
	20-24	1112	5.71	5.37 -	6.04
	25-29	1203	5.99	5.65 -	6.32
	30-34	924	5.82	5.45 -	6.20
	35-39	499	6.85	6.25 -	7.45
	40 +	144	9.04	7.56 -	10.51
Cleft lip with or without cleft palate * (p<0.0001)	< 20	1051	11.83	11.11 -	12.54
	20-24	2114	10.85	10.39 -	11.31
	25-29	1994	9.92	9.49 -	10.36
	30-34	1599	10.08	9.58 -	10.57
	35-39	808	11.09	10.32 -	11.85
	40 +	271	17.01	14.98 -	19.03

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Gastrointestinal					
Tracheoesophageal fistula / esophageal atresia * (p<0.0001)	< 20	195	2.19	1.89 -	2.50
	20-24	366	1.88	1.69 -	2.07
	25-29	363	1.81	1.62 -	1.99
	30-34	354	2.23	2.00 -	2.46
	35-39	207	2.84	2.45 -	3.23
	40 +	98	6.15	4.99 -	7.49
Pyloric stenosis * (p<0.0001)	< 20	2004	22.55	21.56 -	23.54
	20-24	3702	19.00	18.39 -	19.61
	25-29	3100	15.43	14.88 -	15.97
	30-34	2142	13.50	12.93 -	14.07
	35-39	946	12.98	12.15 -	13.81
	40 +	173	10.86	9.24 -	12.47
Stenosis or atresia of the small intestine * (p<0.0001)	< 20	376	4.23	3.80 -	4.66
	20-24	639	3.28	3.02 -	3.53
	25-29	560	2.79	2.56 -	3.02
	30-34	438	2.76	2.50 -	3.02
	35-39	299	4.10	3.64 -	4.57
	40 +	139	8.72	7.27 -	10.17
Stenosis or atresia of large intestine, rectum, or anal canal * (p<0.0001)	< 20	494	5.56	5.07 -	6.05
	20-24	1000	5.13	4.81 -	5.45
	25-29	962	4.79	4.48 -	5.09
	30-34	828	5.22	4.86 -	5.57
	35-39	456	6.26	5.68 -	6.83
	40 +	141	8.85	7.39 -	10.31
Hirschsprung disease * (p<0.0001)	< 20	100	1.13	0.92 -	1.37
	20-24	291	1.49	1.32 -	1.66
	25-29	271	1.35	1.19 -	1.51
	30-34	197	1.24	1.07 -	1.41
	35-39	137	1.88	1.56 -	2.19
	40 +	38	2.38	1.69 -	3.27
Biliary atresia	< 20	67	0.75	0.58 -	0.96
	20-24	154	0.79	0.67 -	0.92
	25-29	135	0.67	0.56 -	0.79
	30-34	108	0.68	0.55 -	0.81
	35-39	50	0.69	0.51 -	0.90
	40 +	13	0.82	0.43 -	1.40
Genitourinary					
Hypospadias (cases and prevalence among males) * (p<0.0001)	< 20	2376	52.18	50.09 -	54.28
	20-24	5388	54.19	52.74 -	55.64
	25-29	6321	61.46	59.95 -	62.98
	30-34	5443	67.19	65.41 -	68.98
	35-39	2633	70.66	67.96 -	73.36
	40 +	617	76.03	70.03 -	82.03

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Epispadias	< 20	70	0.79	0.61 -	1.00
	20-24	197	1.01	0.87 -	1.15
	25-29	228	1.13	0.99 -	1.28
	30-34	175	1.10	0.94 -	1.27
	35-39	89	1.22	0.98 -	1.50
	40 +	18	1.13	0.67 -	1.79
Renal agenesis or dysgenesis * (p<0.0001)	< 20	498	5.60	5.11 -	6.10
	20-24	1103	5.66	5.33 -	5.99
	25-29	1253	6.24	5.89 -	6.58
	30-34	976	6.15	5.77 -	6.54
	35-39	514	7.05	6.44 -	7.66
	40 +	148	9.29	7.79 -	10.78
Bladder exstrophy	< 20	18	0.20	0.12 -	0.32
	20-24	34	0.17	0.12 -	0.24
	25-29	32	0.16	0.11 -	0.22
	30-34	30	0.19	0.13 -	0.27
	35-39	15	0.21	0.12 -	0.34
	40 +	3	0.19	0.04 -	0.55
Musculoskeletal					
Congenital hip dislocation without hip dysplasia * (p<0.0001)	< 20	199	2.24	1.93 -	2.55
	20-24	476	2.44	2.22 -	2.66
	25-29	521	2.59	2.37 -	2.82
	30-34	459	2.89	2.63 -	3.16
	35-39	249	3.42	2.99 -	3.84
	40 +	68	4.27	3.31 -	5.41
Talipes equinovarus / clubfoot * (p<0.0001)	< 20	1460	16.43	15.59 -	17.27
	20-24	3193	16.39	15.82 -	16.95
	25-29	3077	15.31	14.77 -	15.85
	30-34	2435	15.35	14.74 -	15.96
	35-39	1263	17.33	16.37 -	18.29
	40 +	390	24.47	22.04 -	26.90
Reduction defects of the upper limbs * (p<0.0001)	< 20	468	5.27	4.79 -	5.74
	20-24	798	4.10	3.81 -	4.38
	25-29	771	3.84	3.57 -	4.11
	30-34	610	3.84	3.54 -	4.15
	35-39	278	3.81	3.37 -	4.26
	40 +	101	6.34	5.10 -	7.57
Reduction defects of the lower limbs * (p<0.0001)	< 20	236	2.66	2.32 -	2.99
	20-24	376	1.93	1.73 -	2.12
	25-29	397	1.98	1.78 -	2.17
	30-34	273	1.72	1.52 -	1.92
	35-39	122	1.67	1.38 -	1.97
	40 +	35	2.20	1.53 -	3.05

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Craniosynostosis * (p<0.0001)	< 20	342	3.85	3.44 -	4.26
	20-24	887	4.55	4.25 -	4.85
	25-29	1060	5.27	4.96 -	5.59
	30-34	965	6.08	5.70 -	6.47
	35-39	490	6.72	6.13 -	7.32
	40 +	147	9.22	7.73 -	10.72
Achondroplasia * (p<0.0001)	< 20	13	0.15	0.08 -	0.25
	20-24	50	0.26	0.19 -	0.34
	25-29	73	0.36	0.28 -	0.46
	30-34	75	0.47	0.37 -	0.59
	35-39	31	0.43	0.29 -	0.60
	40 +	11	0.69	0.34 -	1.24
Diaphragmatic hernia	< 20	233	2.62	2.29 -	2.96
	20-24	522	2.68	2.45 -	2.91
	25-29	583	2.90	2.67 -	3.14
	30-34	422	2.66	2.41 -	2.91
	35-39	215	2.95	2.56 -	3.34
	40 +	57	3.58	2.71 -	4.63
Omphalocele * (p<0.0001)	< 20	190	2.14	1.83 -	2.44
	20-24	368	1.89	1.70 -	2.08
	25-29	394	1.96	1.77 -	2.15
	30-34	307	1.93	1.72 -	2.15
	35-39	201	2.76	2.38 -	3.14
	40 +	103	6.46	5.22 -	7.71
Gastroschisis * (p<0.0001)	< 20	1434	16.14	15.30 -	16.97
	20-24	1557	7.99	7.59 -	8.39
	25-29	562	2.80	2.57 -	3.03
	30-34	173	1.09	0.93 -	1.25
	35-39	61	0.84	0.64 -	1.08
	40 +	15	0.94	0.53 -	1.55
Chromosomal					
Trisomy 21 (Down syndrome) * (p<0.0001)	< 20	657	7.39	6.83 -	7.96
	20-24	1322	6.78	6.42 -	7.15
	25-29	1499	7.46	7.08 -	7.84
	30-34	1945	12.26	11.71 -	12.80
	35-39	2616	35.89	34.52 -	37.27
	40 +	1908	119.73	114.36 -	125.10
Trisomy 13 (Patau syndrome) * (p<0.0001)	< 20	67	0.75	0.58 -	0.96
	20-24	170	0.87	0.74 -	1.00
	25-29	179	0.89	0.76 -	1.02
	30-34	175	1.10	0.94 -	1.27
	35-39	182	2.50	2.13 -	2.86
	40 +	85	5.33	4.26 -	6.60

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Trisomy 18 (Edwards syndrome) * (p<0.0001)	< 20	118	1.33	1.09 - 1.57
	20-24	263	1.35	1.19 - 1.51
	25-29	288	1.43	1.27 - 1.60
	30-34	298	1.88	1.66 - 2.09
	35-39	476	6.53	5.94 - 7.12
	40 +	412	25.85	23.36 - 28.35
Infants and fetuses with regular reportable birth defects * (p<0.0001)	< 20	38637	434.78	430.45 - 439.12
	20-24	85035	436.39	433.45 - 439.32
	25-29	89935	447.53	444.61 - 450.46
	30-34	75322	474.72	471.33 - 478.11
	35-39	40512	555.86	550.45 - 561.28
	40 +	11529	723.47	710.27 - 736.68

[†] cases per 10,000 live births

* statistically significant by Poisson regression (p<0.05)