

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2015 Deliveries
 Table 3. Prevalence of Selected Birth Defects by Mother's Age, Texas, 1999-2015

Birth Defect	Mother's Age	Cases	Prevalence[†]	95% Confidence Interval for Prevalence	
Central Nervous System					
Anencephaly * (p<0.0001)	< 20	257	3.09	2.71 -	3.47
	20-24	484	2.74	2.49 -	2.98
	25-29	466	2.61	2.37 -	2.85
	30-34	299	2.16	1.91 -	2.40
	35-39	118	1.87	1.53 -	2.20
	40 +	40	2.90	2.07 -	3.95
Spina bifida without anencephaly	< 20	287	3.45	3.05 -	3.85
	20-24	649	3.67	3.39 -	3.95
	25-29	653	3.66	3.38 -	3.94
	30-34	522	3.76	3.44 -	4.09
	35-39	263	4.16	3.65 -	4.66
	40 +	63	4.56	3.51 -	5.84
Encephalocele	< 20	94	1.13	0.91 -	1.38
	20-24	173	0.98	0.83 -	1.12
	25-29	148	0.83	0.70 -	0.96
	30-34	121	0.87	0.72 -	1.03
	35-39	67	1.06	0.82 -	1.34
	40 +	16	1.16	0.66 -	1.88
Microcephaly, severe (head circumference <3rd percentile) * (p<0.0001)	< 20	440	5.29	4.80 -	5.79
	20-24	791	4.47	4.16 -	4.78
	25-29	635	3.56	3.28 -	3.84
	30-34	507	3.65	3.34 -	3.97
	35-39	269	4.25	3.74 -	4.76
	40 +	85	6.16	4.92 -	7.62
Holoprosencephaly * (p=0.0049)	< 20	101	1.21	0.98 -	1.45
	20-24	168	0.95	0.81 -	1.09
	25-29	168	0.94	0.80 -	1.08
	30-34	142	1.02	0.86 -	1.19
	35-39	90	1.42	1.14 -	1.75
	40 +	22	1.59	1.00 -	2.41
Hydrocephaly without spina bifida * (p<0.0001)	< 20	711	8.55	7.92 -	9.18
	20-24	1253	7.08	6.69 -	7.47
	25-29	1263	7.08	6.69 -	7.47
	30-34	980	7.06	6.62 -	7.51
	35-39	544	8.60	7.88 -	9.32
	40 +	169	12.25	10.40 -	14.09
Eye and Ear					
Anophthalmia * (p=0.0041)	< 20	44	0.53	0.38 -	0.71
	20-24	47	0.27	0.20 -	0.35
	25-29	49	0.27	0.20 -	0.36
	30-34	34	0.25	0.17 -	0.34
	35-39	18	0.28	0.17 -	0.45
	40 +	8	0.58	0.25 -	1.14

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Microphthalmia * (p<0.0001)	< 20	191	2.30	1.97 -	2.62
	20-24	412	2.33	2.10 -	2.55
	25-29	418	2.34	2.12 -	2.57
	30-34	372	2.68	2.41 -	2.95
	35-39	246	3.89	3.40 -	4.37
	40 +	117	8.48	6.94 -	10.01
Cataract * (p=0.0045)	< 20	142	1.71	1.43 -	1.99
	20-24	321	1.81	1.62 -	2.01
	25-29	320	1.79	1.60 -	1.99
	30-34	237	1.71	1.49 -	1.93
	35-39	140	2.21	1.85 -	2.58
	40 +	43	3.12	2.25 -	4.20
Anotia or microtia * (p<0.0001)	< 20	232	2.79	2.43 -	3.15
	20-24	557	3.15	2.89 -	3.41
	25-29	546	3.06	2.80 -	3.32
	30-34	492	3.55	3.23 -	3.86
	35-39	257	4.06	3.57 -	4.56
	40 +	74	5.36	4.21 -	6.73
Cardiac and Circulatory					
Common truncus	< 20	61	0.73	0.56 -	0.94
	20-24	134	0.76	0.63 -	0.89
	25-29	143	0.80	0.67 -	0.93
	30-34	131	0.94	0.78 -	1.11
	35-39	63	1.00	0.77 -	1.27
	40 +	19	1.38	0.83 -	2.15
Transposition of the great vessels * (p<0.0001)	< 20	370	4.45	4.00 -	4.90
	20-24	811	4.58	4.27 -	4.90
	25-29	923	5.17	4.84 -	5.51
	30-34	730	5.26	4.88 -	5.64
	35-39	400	6.32	5.70 -	6.94
	40 +	120	8.70	7.14 -	10.25
Tetralogy of Fallot * (p<0.0001)	< 20	266	3.20	2.82 -	3.58
	20-24	584	3.30	3.03 -	3.57
	25-29	603	3.38	3.11 -	3.65
	30-34	547	3.94	3.61 -	4.27
	35-39	333	5.26	4.70 -	5.83
	40 +	133	9.64	8.00 -	11.27
Ventricular septal defect * (p<0.0001)	< 20	4298	51.70	50.15 -	53.24
	20-24	9411	53.19	52.12 -	54.27
	25-29	9731	54.53	53.45 -	55.62
	30-34	8320	59.98	58.69 -	61.27
	35-39	4776	75.49	73.35 -	77.63
	40 +	1564	113.33	107.71 -	118.94

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Atrial septal defect * (p<0.0001)	< 20	5025	60.44	58.77 -	62.11
	20-24	10818	61.14	59.99 -	62.30
	25-29	10846	60.78	59.64 -	61.93
	30-34	8754	63.11	61.78 -	64.43
	35-39	5188	82.00	79.77 -	84.24
	40 +	1830	132.60	126.52 -	138.67
Atrioventricular septal defect (endocardial cushion defect) * (p<0.0001)	< 20	277	3.33	2.94 -	3.72
	20-24	569	3.22	2.95 -	3.48
	25-29	636	3.56	3.29 -	3.84
	30-34	573	4.13	3.79 -	4.47
	35-39	472	7.46	6.79 -	8.13
	40 +	267	19.35	17.03 -	21.67
Pulmonary valve atresia or stenosis * (p<0.0001)	< 20	737	8.86	8.22 -	9.50
	20-24	1603	9.06	8.62 -	9.50
	25-29	1535	8.60	8.17 -	9.03
	30-34	1346	9.70	9.18 -	10.22
	35-39	732	11.57	10.73 -	12.41
	40 +	206	14.93	12.89 -	16.96
Tricuspid valve atresia or stenosis * (p<0.0001)	< 20	132	1.59	1.32 -	1.86
	20-24	322	1.82	1.62 -	2.02
	25-29	303	1.70	1.51 -	1.89
	30-34	254	1.83	1.61 -	2.06
	35-39	134	2.12	1.76 -	2.48
	40 +	50	3.62	2.69 -	4.78
Ebstein anomaly * (p=0.0018)	< 20	58	0.70	0.53 -	0.90
	20-24	98	0.55	0.45 -	0.68
	25-29	133	0.75	0.62 -	0.87
	30-34	109	0.79	0.64 -	0.93
	35-39	44	0.70	0.51 -	0.93
	40 +	22	1.59	1.00 -	2.41
Aortic valve stenosis * (p<0.0001)	< 20	159	1.91	1.62 -	2.21
	20-24	394	2.23	2.01 -	2.45
	25-29	416	2.33	2.11 -	2.56
	30-34	365	2.63	2.36 -	2.90
	35-39	201	3.18	2.74 -	3.62
	40 +	46	3.33	2.44 -	4.45
Hypoplastic left heart syndrome * (p=0.027)	< 20	165	1.98	1.68 -	2.29
	20-24	376	2.13	1.91 -	2.34
	25-29	393	2.20	1.98 -	2.42
	30-34	320	2.31	2.05 -	2.56
	35-39	137	2.17	1.80 -	2.53
	40 +	49	3.55	2.63 -	4.69

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Patent ductus arteriosus * (p<0.0001)	< 20	4120	49.56	48.04 -	51.07
	20-24	9144	51.68	50.62 -	52.74
	25-29	9687	54.29	53.21 -	55.37
	30-34	8151	58.76	57.48 -	60.04
	35-39	5124	80.99	78.78 -	83.21
	40 +	2010	145.64	139.27 -	152.01
Coarctation of the aorta * (p<0.0001)	< 20	392	4.72	4.25 -	5.18
	20-24	772	4.36	4.06 -	4.67
	25-29	941	5.27	4.94 -	5.61
	30-34	709	5.11	4.73 -	5.49
	35-39	386	6.10	5.49 -	6.71
	40 +	140	10.14	8.46 -	11.82
Respiratory					
Choanal atresia or stenosis * (p=0.0099)	< 20	85	1.02	0.82 -	1.26
	20-24	209	1.18	1.02 -	1.34
	25-29	211	1.18	1.02 -	1.34
	30-34	200	1.44	1.24 -	1.64
	35-39	100	1.58	1.29 -	1.92
	40 +	22	1.59	1.00 -	2.41
Agenesis, aplasia, or hypoplasia of the lung * (p=0.0008)	< 20	292	3.51	3.11 -	3.92
	20-24	552	3.12	2.86 -	3.38
	25-29	537	3.01	2.75 -	3.26
	30-34	364	2.62	2.35 -	2.89
	35-39	215	3.40	2.94 -	3.85
	40 +	56	4.06	3.07 -	5.27
Oral Clefts					
Cleft palate alone (without cleft lip) * (p<0.0001)	< 20	411	4.94	4.47 -	5.42
	20-24	1011	5.71	5.36 -	6.07
	25-29	1069	5.99	5.63 -	6.35
	30-34	821	5.92	5.51 -	6.32
	35-39	423	6.69	6.05 -	7.32
	40 +	127	9.20	7.60 -	10.80
Cleft lip with or without cleft palate * (p<0.0001)	< 20	982	11.81	11.07 -	12.55
	20-24	1916	10.83	10.34 -	11.31
	25-29	1786	10.01	9.54 -	10.47
	30-34	1411	10.17	9.64 -	10.70
	35-39	700	11.06	10.24 -	11.88
	40 +	237	17.17	14.99 -	19.36
Gastrointestinal					
Tracheoesophageal fistula / esophageal atresia * (p<0.0001)	< 20	179	2.15	1.84 -	2.47
	20-24	336	1.90	1.70 -	2.10
	25-29	310	1.74	1.54 -	1.93
	30-34	311	2.24	1.99 -	2.49
	35-39	177	2.80	2.39 -	3.21
	40 +	86	6.23	4.98 -	7.70

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Pyloric stenosis * (p<0.0001)	< 20	1891	22.75	21.72 -	23.77
	20-24	3453	19.52	18.87 -	20.17
	25-29	2827	15.84	15.26 -	16.43
	30-34	1934	13.94	13.32 -	14.56
	35-39	852	13.47	12.56 -	14.37
	40 +	149	10.80	9.06 -	12.53
Stenosis or atresia of the small intestine * (p<0.0001)	< 20	342	4.11	3.68 -	4.55
	20-24	566	3.20	2.94 -	3.46
	25-29	492	2.76	2.51 -	3.00
	30-34	378	2.72	2.45 -	3.00
	35-39	257	4.06	3.57 -	4.56
	40 +	114	8.26	6.74 -	9.78
Stenosis or atresia of large intestine, rectum, or anal canal * (p<0.0001)	< 20	456	5.48	4.98 -	5.99
	20-24	909	5.14	4.80 -	5.47
	25-29	842	4.72	4.40 -	5.04
	30-34	711	5.13	4.75 -	5.50
	35-39	401	6.34	5.72 -	6.96
	40 +	122	8.84	7.27 -	10.41
Hirschsprung disease * (p=0.0002)	< 20	92	1.11	0.89 -	1.36
	20-24	263	1.49	1.31 -	1.67
	25-29	235	1.32	1.15 -	1.49
	30-34	177	1.28	1.09 -	1.46
	35-39	118	1.87	1.53 -	2.20
	40 +	32	2.32	1.59 -	3.27
Biliary atresia	< 20	61	0.73	0.56 -	0.94
	20-24	131	0.74	0.61 -	0.87
	25-29	124	0.69	0.57 -	0.82
	30-34	94	0.68	0.55 -	0.83
	35-39	45	0.71	0.52 -	0.95
	40 +	11	0.80	0.40 -	1.43
Genitourinary					
Hypospadias (cases and prevalence among males) * (p<0.0001)	< 20	2181	51.21	49.06 -	53.36
	20-24	4775	52.91	51.41 -	54.41
	25-29	5464	59.80	58.22 -	61.39
	30-34	4620	65.23	63.35 -	67.11
	35-39	2230	68.94	66.07 -	71.80
	40 +	543	77.12	70.63 -	83.60
Epispadias	< 20	68	0.82	0.64 -	1.04
	20-24	172	0.97	0.83 -	1.12
	25-29	196	1.10	0.94 -	1.25
	30-34	156	1.12	0.95 -	1.30
	35-39	71	1.12	0.88 -	1.42
	40 +	17	1.23	0.72 -	1.97

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Renal agenesis or dysgenesis * (p<0.0001)	< 20	461	5.55	5.04 -	6.05
	20-24	975	5.51	5.16 -	5.86
	25-29	1087	6.09	5.73 -	6.45
	30-34	824	5.94	5.53 -	6.35
	35-39	432	6.83	6.18 -	7.47
	40 +	120	8.70	7.14 -	10.25
Bladder exstrophy	< 20	17	0.20	0.12 -	0.33
	20-24	34	0.19	0.13 -	0.27
	25-29	31	0.17	0.12 -	0.25
	30-34	28	0.20	0.13 -	0.29
	35-39	13	0.21	0.11 -	0.35
	40 +	3	0.22	0.04 -	0.64
Musculoskeletal					
Congenital hip dislocation * (p<0.0001)	< 20	298	3.58	3.18 -	3.99
	20-24	674	3.81	3.52 -	4.10
	25-29	727	4.07	3.78 -	4.37
	30-34	686	4.95	4.58 -	5.32
	35-39	351	5.55	4.97 -	6.13
	40 +	84	6.09	4.85 -	7.54
Talipes equinovarus / clubfoot * (p<0.0001)	< 20	1337	16.08	15.22 -	16.94
	20-24	2845	16.08	15.49 -	16.67
	25-29	2647	14.83	14.27 -	15.40
	30-34	2070	14.92	14.28 -	15.57
	35-39	1050	16.60	15.59 -	17.60
	40 +	318	23.04	20.51 -	25.57
Reduction defects of the upper limbs * (p<0.0001)	< 20	437	5.26	4.76 -	5.75
	20-24	725	4.10	3.80 -	4.40
	25-29	682	3.82	3.54 -	4.11
	30-34	538	3.88	3.55 -	4.21
	35-39	236	3.73	3.25 -	4.21
	40 +	90	6.52	5.24 -	8.02
Reduction defects of the lower limbs * (p<0.0001)	< 20	220	2.65	2.30 -	3.00
	20-24	343	1.94	1.73 -	2.14
	25-29	364	2.04	1.83 -	2.25
	30-34	232	1.67	1.46 -	1.89
	35-39	100	1.58	1.29 -	1.92
	40 +	30	2.17	1.47 -	3.10
Craniosynostosis * (p<0.0001)	< 20	316	3.80	3.38 -	4.22
	20-24	789	4.46	4.15 -	4.77
	25-29	915	5.13	4.80 -	5.46
	30-34	843	6.08	5.67 -	6.49
	35-39	424	6.70	6.06 -	7.34
	40 +	120	8.70	7.14 -	10.25

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Achondroplasia * (p=0.0004)	< 20	13	0.16	0.08 -	0.27
	20-24	43	0.24	0.18 -	0.33
	25-29	65	0.36	0.28 -	0.46
	30-34	56	0.40	0.30 -	0.52
	35-39	29	0.46	0.31 -	0.66
	40 +	9	0.65	0.30 -	1.24
Diaphragmatic hernia	< 20	215	2.59	2.24 -	2.93
	20-24	467	2.64	2.40 -	2.88
	25-29	519	2.91	2.66 -	3.16
	30-34	366	2.64	2.37 -	2.91
	35-39	186	2.94	2.52 -	3.36
	40 +	42	3.04	2.19 -	4.11
Omphalocele * (p<0.0001)	< 20	175	2.10	1.79 -	2.42
	20-24	339	1.92	1.71 -	2.12
	25-29	343	1.92	1.72 -	2.13
	30-34	260	1.87	1.65 -	2.10
	35-39	170	2.69	2.28 -	3.09
	40 +	90	6.52	5.24 -	8.02
Gastroschisis * (p<0.0001)	< 20	1325	15.94	15.08 -	16.80
	20-24	1413	7.99	7.57 -	8.40
	25-29	478	2.68	2.44 -	2.92
	30-34	146	1.05	0.88 -	1.22
	35-39	56	0.89	0.67 -	1.15
	40 +	14	1.01	0.55 -	1.70
Chromosomal					
Trisomy 21 (Down syndrome) * (p<0.0001)	< 20	623	7.49	6.91 -	8.08
	20-24	1207	6.82	6.44 -	7.21
	25-29	1325	7.43	7.03 -	7.83
	30-34	1708	12.31	11.73 -	12.90
	35-39	2287	36.15	34.67 -	37.63
	40 +	1659	120.21	114.42 -	125.99
Trisomy 13 (Patau syndrome) * (p<0.0001)	< 20	63	0.76	0.58 -	0.97
	20-24	152	0.86	0.72 -	1.00
	25-29	163	0.91	0.77 -	1.05
	30-34	158	1.14	0.96 -	1.32
	35-39	163	2.58	2.18 -	2.97
	40 +	72	5.22	4.08 -	6.57
Trisomy 18 (Edwards syndrome) * (p<0.0001)	< 20	114	1.37	1.12 -	1.62
	20-24	238	1.35	1.17 -	1.52
	25-29	255	1.43	1.25 -	1.60
	30-34	262	1.89	1.66 -	2.12
	35-39	419	6.62	5.99 -	7.26
	40 +	365	26.45	23.73 -	29.16

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Infants and fetuses with any monitored birth defect * (p<0.0001)	< 20	36245	435.97	431.48 - 440.46
	20-24	77171	436.17	433.09 - 439.25
	25-29	79903	447.79	444.69 - 450.90
	30-34	66081	476.37	472.74 - 480.01
	35-39	35202	556.42	550.61 - 562.23
	40 +	9997	724.37	710.17 - 738.57

[†] cases per 10,000 live births

* statistically significant by Poisson regression (p<0.05)