

## Texas Birth Defects Registry, Report of Birth Defects Among 1999-2017 Deliveries

Table 4. Prevalence of Selected Birth Defects by Mother's Race/Ethnicity, Texas, 1999-2017

Birth Defect	Mother's Race/Ethnicity	Cases	Prevalence <sup>†</sup>	95% Confidence Interval for Prevalence	
<b>Central Nervous System</b>					
Anencephaly * (p<0.0001)	White non-Hispanic	540	2.09	1.91 -	2.26
	Black non-Hispanic	151	1.81	1.52 -	2.10
	Hispanic	1082	3.06	2.88 -	3.24
Spina bifida without anencephaly * (p<0.0001)	White non-Hispanic	902	3.49	3.26 -	3.71
	Black non-Hispanic	224	2.69	2.34 -	3.04
	Hispanic	1542	4.36	4.15 -	4.58
Encephalocele * (p<0.0001)	White non-Hispanic	183	0.71	0.60 -	0.81
	Black non-Hispanic	99	1.19	0.97 -	1.45
	Hispanic	375	1.06	0.95 -	1.17
Microcephaly, severe (head circumference <3rd percentile) * (p<0.0001)	White non-Hispanic	799	3.09	2.87 -	3.30
	Black non-Hispanic	671	8.06	7.45 -	8.67
	Hispanic	1658	4.69	4.47 -	4.92
Holoprosencephaly * (p<0.0001)	White non-Hispanic	220	0.85	0.74 -	0.96
	Black non-Hispanic	81	0.97	0.77 -	1.21
	Hispanic	440	1.25	1.13 -	1.36
Hydrocephaly without spina bifida * (p=0.0002)	White non-Hispanic	1979	7.65	7.31 -	7.99
	Black non-Hispanic	759	9.12	8.47 -	9.77
	Hispanic	2754	7.79	7.50 -	8.09
<b>Eye and Ear</b>					
Anophthalmia	White non-Hispanic	65	0.25	0.19 -	0.32
	Black non-Hispanic	26	0.31	0.20 -	0.46
	Hispanic	120	0.34	0.28 -	0.40
Microphthalmia * (p=0.0009)	White non-Hispanic	677	2.62	2.42 -	2.81
	Black non-Hispanic	186	2.23	1.91 -	2.56
	Hispanic	1033	2.92	2.75 -	3.10
Cataract	White non-Hispanic	505	1.95	1.78 -	2.12
	Black non-Hispanic	178	2.14	1.82 -	2.45
	Hispanic	650	1.84	1.70 -	1.98
Anotia or microtia * (p<0.0001)	White non-Hispanic	541	2.09	1.92 -	2.27
	Black non-Hispanic	126	1.51	1.25 -	1.78
	Hispanic	1732	4.90	4.67 -	5.13
<b>Cardiac and Circulatory</b>					
Common truncus * (p=0.002)	White non-Hispanic	164	0.63	0.54 -	0.73
	Black non-Hispanic	60	0.72	0.55 -	0.93
	Hispanic	312	0.88	0.79 -	0.98
Transposition of the great vessels * (p<0.0001)	White non-Hispanic	962	3.72	3.48 -	3.95
	Black non-Hispanic	199	2.39	2.06 -	2.72
	Hispanic	1233	3.49	3.29 -	3.68
Double outlet right ventricle * (p<0.0001)	White non-Hispanic	502	1.94	1.77 -	2.11
	Black non-Hispanic	177	2.13	1.81 -	2.44
	Hispanic	879	2.49	2.32 -	2.65
Tetralogy of Fallot * (p=0.0209)	White non-Hispanic	986	3.81	3.57 -	4.05
	Black non-Hispanic	365	4.38	3.93 -	4.83
	Hispanic	1311	3.71	3.51 -	3.91

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Ventricular septal defect * (p<0.0001)	White non-Hispanic	13866	53.61	52.71 -	54.50
	Black non-Hispanic	3857	46.33	44.87 -	47.79
	Hispanic	23979	67.87	67.01 -	68.73
Atrial septal defect * (p<0.0001)	White non-Hispanic	16388	63.36	62.39 -	64.33
	Black non-Hispanic	5849	70.26	68.46 -	72.06
	Hispanic	25230	71.41	70.53 -	72.29
Atrioventricular septal defect (endocardial cushion defect) * (p<0.0001)	White non-Hispanic	1219	4.71	4.45 -	4.98
	Black non-Hispanic	409	4.91	4.44 -	5.39
	Hispanic	1424	4.03	3.82 -	4.24
Pulmonary valve atresia or stenosis * (p<0.0001)	White non-Hispanic	2225	8.60	8.24 -	8.96
	Black non-Hispanic	852	10.23	9.55 -	10.92
	Hispanic	3670	10.39	10.05 -	10.72
Tricuspid valve atresia or stenosis * (p=0.0052)	White non-Hispanic	414	1.60	1.45 -	1.75
	Black non-Hispanic	174	2.09	1.78 -	2.40
	Hispanic	660	1.87	1.73 -	2.01
Ebstein anomaly * (p=0.0001)	White non-Hispanic	179	0.69	0.59 -	0.79
	Black non-Hispanic	35	0.42	0.29 -	0.58
	Hispanic	293	0.83	0.73 -	0.92
Aortic valve stenosis * (p<0.0001)	White non-Hispanic	701	2.71	2.51 -	2.91
	Black non-Hispanic	114	1.37	1.12 -	1.62
	Hispanic	871	2.47	2.30 -	2.63
Hypoplastic left heart syndrome * (p=0.0003)	White non-Hispanic	666	2.57	2.38 -	2.77
	Black non-Hispanic	188	2.26	1.94 -	2.58
	Hispanic	733	2.07	1.92 -	2.22
Patent ductus arteriosus * (p<0.0001)	White non-Hispanic	13882	53.67	52.78 -	54.56
	Black non-Hispanic	4730	56.82	55.20 -	58.44
	Hispanic	23164	65.56	64.72 -	66.41
Coarctation of the aorta * (p<0.0001)	White non-Hispanic	1485	5.74	5.45 -	6.03
	Black non-Hispanic	316	3.80	3.38 -	4.21
	Hispanic	1840	5.21	4.97 -	5.45
<b>Respiratory</b>					
Choanal atresia or stenosis * (p=0.0228)	White non-Hispanic	372	1.44	1.29 -	1.58
	Black non-Hispanic	104	1.25	1.01 -	1.49
	Hispanic	418	1.18	1.07 -	1.30
Agenesis, aplasia, or hypoplasia of the lung * (p<0.0001)	White non-Hispanic	667	2.58	2.38 -	2.77
	Black non-Hispanic	285	3.42	3.03 -	3.82
	Hispanic	1209	3.42	3.23 -	3.61
<b>Oral Clefts</b>					
Cleft palate alone (without cleft lip) * (p<0.0001)	White non-Hispanic	1708	6.60	6.29 -	6.92
	Black non-Hispanic	375	4.50	4.05 -	4.96
	Hispanic	2003	5.67	5.42 -	5.92
Cleft lip with or without cleft palate * (p<0.0001)	White non-Hispanic	2854	11.03	10.63 -	11.44
	Black non-Hispanic	593	7.12	6.55 -	7.70
	Hispanic	4015	11.36	11.01 -	11.72

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<b>Gastrointestinal</b>					
Tracheoesophageal fistula / esophageal atresia * (p=0.0004)	White non-Hispanic	637	2.46	2.27 -	2.65
	Black non-Hispanic	153	1.84	1.55 -	2.13
	Hispanic	732	2.07	1.92 -	2.22
Pyloric stenosis * (p<0.0001)	White non-Hispanic	4811	18.60	18.07 -	19.13
	Black non-Hispanic	576	6.92	6.35 -	7.48
	Hispanic	6489	18.37	17.92 -	18.81
Stenosis or atresia of the small intestine	White non-Hispanic	838	3.24	3.02 -	3.46
	Black non-Hispanic	281	3.38	2.98 -	3.77
	Hispanic	1248	3.53	3.34 -	3.73
Stenosis or atresia of large intestine, rectum, or anal canal * (p<0.0001)	White non-Hispanic	1325	5.12	4.85 -	5.40
	Black non-Hispanic	351	4.22	3.78 -	4.66
	Hispanic	2029	5.74	5.49 -	5.99
Hirschsprung disease * (p<0.0001)	White non-Hispanic	445	1.72	1.56 -	1.88
	Black non-Hispanic	197	2.37	2.04 -	2.70
	Hispanic	322	0.91	0.81 -	1.01
Biliary atresia * (p=0.004)	White non-Hispanic	148	0.57	0.48 -	0.66
	Black non-Hispanic	75	0.90	0.71 -	1.13
	Hispanic	256	0.72	0.64 -	0.81
<b>Genitourinary</b>					
Hypospadias (cases and prevalence among males) * (p<0.0001)	White non-Hispanic	11187	84.36	82.80 -	85.93
	Black non-Hispanic	3079	72.68	70.11 -	75.24
	Hispanic	7353	40.81	39.87 -	41.74
Epispadias * (p<0.0001)	White non-Hispanic	328	1.27	1.13 -	1.41
	Black non-Hispanic	106	1.27	1.03 -	1.52
	Hispanic	307	0.87	0.77 -	0.97
Renal agenesis or dysgenesis * (p=0.0369)	White non-Hispanic	1520	5.88	5.58 -	6.17
	Black non-Hispanic	504	6.05	5.53 -	6.58
	Hispanic	2258	6.39	6.13 -	6.65
Bladder exstrophy * (p<0.0001)	White non-Hispanic	77	0.30	0.23 -	0.37
	Black non-Hispanic	15	0.18	0.10 -	0.30
	Hispanic	35	0.10	0.07 -	0.14
<b>Musculoskeletal</b>					
Congenital hip dislocation without hip dysplasia * (p<0.0001)	White non-Hispanic	828	3.20	2.98 -	3.42
	Black non-Hispanic	116	1.39	1.14 -	1.65
	Hispanic	956	2.71	2.53 -	2.88
Talipes equinovarus / clubfoot	White non-Hispanic	4352	16.83	16.33 -	17.33
	Black non-Hispanic	1313	15.77	14.92 -	16.63
	Hispanic	5728	16.21	15.79 -	16.63
Reduction defects of the upper limbs	White non-Hispanic	1094	4.23	3.98 -	4.48
	Black non-Hispanic	351	4.22	3.78 -	4.66
	Hispanic	1463	4.14	3.93 -	4.35
Reduction defects of the lower limbs * (p=0.0053)	White non-Hispanic	504	1.95	1.78 -	2.12
	Black non-Hispanic	206	2.47	2.14 -	2.81
	Hispanic	675	1.91	1.77 -	2.05

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Craniosynostosis * (p<0.0001)	White non-Hispanic	1766	6.83	6.51 -	7.15
	Black non-Hispanic	191	2.29	1.97 -	2.62
	Hispanic	1812	5.13	4.89 -	5.36
Achondroplasia * (p=0.0027)	White non-Hispanic	108	0.42	0.34 -	0.50
	Black non-Hispanic	32	0.38	0.26 -	0.54
	Hispanic	92	0.26	0.21 -	0.32
Diaphragmatic hernia * (p=0.0019)	White non-Hispanic	730	2.82	2.62 -	3.03
	Black non-Hispanic	186	2.23	1.91 -	2.56
	Hispanic	1037	2.94	2.76 -	3.11
Omphalocele	White non-Hispanic	574	2.22	2.04 -	2.40
	Black non-Hispanic	192	2.31	1.98 -	2.63
	Hispanic	725	2.05	1.90 -	2.20
Gastroschisis * (p<0.0001)	White non-Hispanic	1316	5.09	4.81 -	5.36
	Black non-Hispanic	285	3.42	3.03 -	3.82
	Hispanic	2102	5.95	5.69 -	6.20
<b>Chromosomal</b>					
Trisomy 21 (Down syndrome) * (p<0.0001)	White non-Hispanic	3253	12.58	12.14 -	13.01
	Black non-Hispanic	808	9.71	9.04 -	10.38
	Hispanic	5457	15.44	15.04 -	15.85
Trisomy 13 (Patau syndrome)	White non-Hispanic	305	1.18	1.05 -	1.31
	Black non-Hispanic	109	1.31	1.06 -	1.56
	Hispanic	393	1.11	1.00 -	1.22
Trisomy 18 (Edwards syndrome)	White non-Hispanic	639	2.47	2.28 -	2.66
	Black non-Hispanic	222	2.67	2.32 -	3.02
	Hispanic	879	2.49	2.32 -	2.65
<b>Infants and fetuses with regular reportable birth defects *</b> (p<0.0001)	White non-Hispanic	123853	478.82	476.16 -	481.49
	Black non-Hispanic	39076	469.39	464.73 -	474.04
	Hispanic	161907	458.25	456.01 -	460.48

<sup>†</sup> cases per 10,000 live births

\* statistically significant by Poisson regression (p<0.05)