

Texas Birth Defects Registry, Report of Birth Defects Among 1999-2015 Deliveries

Table 4. Prevalence of Selected Birth Defects by Mother's Race/Ethnicity, Texas, 1999-2015

Birth Defect	Mother's Race/Ethnicity	Cases	Prevalence [†]	95% Confidence Interval for Prevalence	
Central Nervous System					
Anencephaly * (p<0.0001)	White non-Hispanic	485	2.08	1.90 -	2.27
	Black non-Hispanic	128	1.73	1.43 -	2.03
	Hispanic	976	3.08	2.89 -	3.28
Spina bifida without anencephaly * (p<0.0001)	White non-Hispanic	797	3.42	3.18 -	3.66
	Black non-Hispanic	201	2.72	2.34 -	3.10
	Hispanic	1376	4.35	4.12 -	4.58
Encephalocele * (p<0.0001)	White non-Hispanic	168	0.72	0.61 -	0.83
	Black non-Hispanic	80	1.08	0.86 -	1.35
	Hispanic	338	1.07	0.95 -	1.18
Microcephaly, severe (head circumference <3rd percentile) * (p<0.0001)	White non-Hispanic	679	2.92	2.70 -	3.13
	Black non-Hispanic	541	7.32	6.71 -	7.94
	Hispanic	1372	4.33	4.11 -	4.56
Holoprosencephaly * (p<0.0001)	White non-Hispanic	198	0.85	0.73 -	0.97
	Black non-Hispanic	73	0.99	0.77 -	1.24
	Hispanic	398	1.26	1.13 -	1.38
Hydrocephaly without spina bifida * (p<0.0001)	White non-Hispanic	1697	7.29	6.94 -	7.63
	Black non-Hispanic	664	8.99	8.30 -	9.67
	Hispanic	2400	7.58	7.28 -	7.89
Eye and Ear					
Anophthalmia	White non-Hispanic	62	0.27	0.20 -	0.34
	Black non-Hispanic	23	0.31	0.20 -	0.47
	Hispanic	112	0.35	0.29 -	0.42
Microphthalmia * (p=0.0004)	White non-Hispanic	607	2.61	2.40 -	2.81
	Black non-Hispanic	157	2.13	1.79 -	2.46
	Hispanic	923	2.92	2.73 -	3.10
Cataract	White non-Hispanic	444	1.91	1.73 -	2.08
	Black non-Hispanic	155	2.10	1.77 -	2.43
	Hispanic	568	1.79	1.65 -	1.94
Anotia or microtia * (p<0.0001)	White non-Hispanic	473	2.03	1.85 -	2.21
	Black non-Hispanic	108	1.46	1.19 -	1.74
	Hispanic	1499	4.74	4.50 -	4.98
Cardiac and Circulatory					
Common truncus * (p=0.0028)	White non-Hispanic	168	0.72	0.61 -	0.83
	Black non-Hispanic	57	0.77	0.58 -	1.00
	Hispanic	312	0.99	0.88 -	1.10
Transposition of the great vessels * (p=0.0002)	White non-Hispanic	1211	5.20	4.91 -	5.49
	Black non-Hispanic	308	4.17	3.70 -	4.63
	Hispanic	1692	5.35	5.09 -	5.60
Tetralogy of Fallot * (p=0.0169)	White non-Hispanic	874	3.75	3.50 -	4.00
	Black non-Hispanic	317	4.29	3.82 -	4.76
	Hispanic	1130	3.57	3.36 -	3.78
Ventricular septal defect * (p<0.0001)	White non-Hispanic	12274	52.70	51.77 -	53.63
	Black non-Hispanic	3338	45.18	43.65 -	46.71
	Hispanic	21019	66.41	65.51 -	67.30

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Atrial septal defect * (p<0.0001)	White non-Hispanic	14358	61.65	60.64 -	62.66
	Black non-Hispanic	4929	66.72	64.85 -	68.58
	Hispanic	21500	67.93	67.02 -	68.83
Atrioventricular septal defect (endocardial cushion defect) * (p<0.0001)	White non-Hispanic	1096	4.71	4.43 -	4.98
	Black non-Hispanic	352	4.76	4.27 -	5.26
	Hispanic	1251	3.95	3.73 -	4.17
Pulmonary valve atresia or stenosis * (p<0.0001)	White non-Hispanic	1992	8.55	8.18 -	8.93
	Black non-Hispanic	728	9.85	9.14 -	10.57
	Hispanic	3231	10.21	9.86 -	10.56
Tricuspid valve atresia or stenosis * (p=0.0439)	White non-Hispanic	390	1.67	1.51 -	1.84
	Black non-Hispanic	155	2.10	1.77 -	2.43
	Hispanic	593	1.87	1.72 -	2.02
Ebstein anomaly * (p=0.0028)	White non-Hispanic	159	0.68	0.58 -	0.79
	Black non-Hispanic	33	0.45	0.31 -	0.63
	Hispanic	252	0.80	0.70 -	0.89
Aortic valve stenosis * (p<0.0001)	White non-Hispanic	640	2.75	2.54 -	2.96
	Black non-Hispanic	100	1.35	1.10 -	1.65
	Hispanic	794	2.51	2.33 -	2.68
Hypoplastic left heart syndrome * (p=0.0003)	White non-Hispanic	595	2.55	2.35 -	2.76
	Black non-Hispanic	164	2.22	1.88 -	2.56
	Hispanic	643	2.03	1.87 -	2.19
Patent ductus arteriosus * (p<0.0001)	White non-Hispanic	12380	53.16	52.22 -	54.09
	Black non-Hispanic	4066	55.04	53.34 -	56.73
	Hispanic	20228	63.91	63.03 -	64.79
Coarctation of the aorta * (p<0.0001)	White non-Hispanic	1313	5.64	5.33 -	5.94
	Black non-Hispanic	279	3.78	3.33 -	4.22
	Hispanic	1622	5.12	4.88 -	5.37
Respiratory					
Choanal atresia or stenosis * (p=0.0104)	White non-Hispanic	340	1.46	1.30 -	1.62
	Black non-Hispanic	94	1.27	1.03 -	1.56
	Hispanic	368	1.16	1.04 -	1.28
Agenesis, aplasia, or hypoplasia of the lung * (p<0.0001)	White non-Hispanic	614	2.64	2.43 -	2.84
	Black non-Hispanic	237	3.21	2.80 -	3.62
	Hispanic	1092	3.45	3.25 -	3.65
Oral Clefts					
Cleft palate alone (without cleft lip) * (p<0.0001)	White non-Hispanic	1536	6.60	6.27 -	6.93
	Black non-Hispanic	331	4.48	4.00 -	4.96
	Hispanic	1796	5.67	5.41 -	5.94
Cleft lip with or without cleft palate * (p<0.0001)	White non-Hispanic	2568	11.03	10.60 -	11.45
	Black non-Hispanic	529	7.16	6.55 -	7.77
	Hispanic	3615	11.42	11.05 -	11.79
Gastrointestinal					
Tracheoesophageal fistula / esophageal atresia * (p=0.0009)	White non-Hispanic	567	2.43	2.23 -	2.63
	Black non-Hispanic	133	1.80	1.49 -	2.11
	Hispanic	651	2.06	1.90 -	2.21

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Pyloric stenosis * (p<0.0001)	White non-Hispanic	4477	19.22	18.66 -	19.79
	Black non-Hispanic	537	7.27	6.65 -	7.88
	Hispanic	5927	18.73	18.25 -	19.20
Stenosis or atresia of the small intestine	White non-Hispanic	738	3.17	2.94 -	3.40
	Black non-Hispanic	254	3.44	3.02 -	3.86
	Hispanic	1091	3.45	3.24 -	3.65
Stenosis or atresia of large intestine, rectum, or anal canal * (p<0.0001)	White non-Hispanic	1181	5.07	4.78 -	5.36
	Black non-Hispanic	316	4.28	3.81 -	4.75
	Hispanic	1799	5.68	5.42 -	5.95
Hirschsprung disease * (p<0.0001)	White non-Hispanic	394	1.69	1.52 -	1.86
	Black non-Hispanic	178	2.41	2.06 -	2.76
	Hispanic	287	0.91	0.80 -	1.01
Biliary atresia * (p=0.0158)	White non-Hispanic	133	0.57	0.47 -	0.67
	Black non-Hispanic	64	0.87	0.67 -	1.11
	Hispanic	226	0.71	0.62 -	0.81
Genitourinary					
Hypospadias (cases and prevalence among males) * (p<0.0001)	White non-Hispanic	9874	82.69	81.05 -	84.32
	Black non-Hispanic	2626	69.84	67.16 -	72.51
	Hispanic	6368	39.45	38.48 -	40.41
Epispadias * (p<0.0001)	White non-Hispanic	293	1.26	1.11 -	1.40
	Black non-Hispanic	96	1.30	1.05 -	1.59
	Hispanic	259	0.82	0.72 -	0.92
Renal agenesis or dysgenesis	White non-Hispanic	1343	5.77	5.46 -	6.07
	Black non-Hispanic	432	5.85	5.30 -	6.40
	Hispanic	1952	6.17	5.89 -	6.44
Bladder exstrophy * (p<0.0001)	White non-Hispanic	74	0.32	0.25 -	0.40
	Black non-Hispanic	13	0.18	0.09 -	0.30
	Hispanic	35	0.11	0.08 -	0.15
Musculoskeletal					
Congenital hip dislocation * (p<0.0001)	White non-Hispanic	1161	4.99	4.70 -	5.27
	Black non-Hispanic	155	2.10	1.77 -	2.43
	Hispanic	1373	4.34	4.11 -	4.57
Talipes equinovarus / clubfoot * (p=0.0096)	White non-Hispanic	3849	16.53	16.00 -	17.05
	Black non-Hispanic	1118	15.13	14.25 -	16.02
	Hispanic	4966	15.69	15.25 -	16.13
Reduction defects of the upper limbs	White non-Hispanic	977	4.20	3.93 -	4.46
	Black non-Hispanic	313	4.24	3.77 -	4.71
	Hispanic	1319	4.17	3.94 -	4.39
Reduction defects of the lower limbs * (p=0.0191)	White non-Hispanic	454	1.95	1.77 -	2.13
	Black non-Hispanic	181	2.45	2.09 -	2.81
	Hispanic	613	1.94	1.78 -	2.09
Craniosynostosis * (p<0.0001)	White non-Hispanic	1564	6.72	6.38 -	7.05
	Black non-Hispanic	156	2.11	1.78 -	2.44
	Hispanic	1593	5.03	4.79 -	5.28
Achondroplasia * (p=0.0055)	White non-Hispanic	90	0.39	0.31 -	0.47
	Black non-Hispanic	31	0.42	0.29 -	0.60
	Hispanic	79	0.25	0.20 -	0.31

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Diaphragmatic hernia * (p=0.0032)	White non-Hispanic	647	2.78	2.56 -	2.99
	Black non-Hispanic	163	2.21	1.87 -	2.55
	Hispanic	923	2.92	2.73 -	3.10
Omphalocele	White non-Hispanic	511	2.19	2.00 -	2.38
	Black non-Hispanic	171	2.31	1.97 -	2.66
	Hispanic	635	2.01	1.85 -	2.16
Gastroschisis * (p<0.0001)	White non-Hispanic	1180	5.07	4.78 -	5.36
	Black non-Hispanic	254	3.44	3.02 -	3.86
	Hispanic	1915	6.05	5.78 -	6.32
Chromosomal					
Trisomy 21 (Down syndrome) * (p<0.0001)	White non-Hispanic	2932	12.59	12.13 -	13.04
	Black non-Hispanic	682	9.23	8.54 -	9.92
	Hispanic	4833	15.27	14.84 -	15.70
Trisomy 13 (Patau syndrome)	White non-Hispanic	273	1.17	1.03 -	1.31
	Black non-Hispanic	97	1.31	1.06 -	1.60
	Hispanic	353	1.12	1.00 -	1.23
Trisomy 18 (Edwards syndrome)	White non-Hispanic	585	2.51	2.31 -	2.72
	Black non-Hispanic	194	2.63	2.26 -	3.00
	Hispanic	774	2.45	2.27 -	2.62
Infants and fetuses with any monitored birth defect * (p<0.0001)	White non-Hispanic	112837	484.49	481.67 -	487.32
	Black non-Hispanic	33733	456.59	451.72 -	461.47
	Hispanic	144452	456.37	454.02 -	458.73

[†] cases per 10,000 live births

* statistically significant by Poisson regression (p<0.05)