

Texas Birth Defects Registry (TBDR) Annual Report

Table 4. Prevalence of Selected Birth Defects by Mother's Race/Ethnicity, Texas, 1999–2023

Birth Defect	Mother's Race/Ethnicity	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
<i>Central Nervous System</i>				
Anencephaly	Non-Hispanic (NH) White	681	2.06	1.90 – 2.21
	NH Black	201	1.81	1.56 – 2.06
	Hispanic	1,341	2.90	2.74 – 3.05
	NH Asian/Pacific Islander	68	1.63	1.27 – 2.07
Spina bifida (without anencephaly)	NH White	1,155	3.49	3.29 – 3.69
	NH Black	291	2.62	2.32 – 2.92
	Hispanic	2,025	4.38	4.19 – 4.57
	NH Asian/Pacific Islander	63	1.51	1.16 – 1.93
Encephalocele	NH White	263	0.79	0.70 – 0.89
	NH Black	143	1.29	1.08 – 1.50
	Hispanic	490	1.06	0.97 – 1.15
	NH Asian/Pacific Islander	24	0.58	0.37 – 0.86
Microcephaly (severe, head circ. <3rd percentile)	NH White	1,195	3.61	3.41 – 3.81
	NH Black	1,173	10.55	9.95 – 11.16
	Hispanic	2,625	5.67	5.46 – 5.89
	NH Asian/Pacific Islander	210	5.03	4.35 – 5.71
Holoprosencephaly	NH White	276	0.83	0.74 – 0.93
	NH Black	109	0.98	0.80 – 1.16
	Hispanic	563	1.22	1.12 – 1.32
	NH Asian/Pacific Islander	23	0.55	0.35 – 0.83
Hydrocephaly (without spina bifida)	NH White	2,718	8.21	7.90 – 8.52
	NH Black	1,089	9.80	9.21 – 10.38
	Hispanic	3,872	8.37	8.10 – 8.63
	NH Asian/Pacific Islander	236	5.66	4.93 – 6.38
<i>Eye & Ear</i>				
Anophthalmia or Microphthalmia	NH White	933	2.82	2.64 – 3.00
	NH Black	273	2.46	2.16 – 2.75
	Hispanic	1,509	3.26	3.10 – 3.43
	NH Asian/Pacific Islander	84	2.01	1.61 – 2.49
Cataract	NH White	666	2.01	1.86 – 2.16
	NH Black	264	2.37	2.09 – 2.66
	Hispanic	902	1.95	1.82 – 2.08
	NH Asian/Pacific Islander	68	1.63	1.27 – 2.07
Anotia or Microtia	NH White	779	2.35	2.19 – 2.52
	NH Black	190	1.71	1.47 – 1.95
	Hispanic	2,471	5.34	5.13 – 5.55
	NH Asian/Pacific Islander	130	3.12	2.58 – 3.65
<i>Cardiovascular</i>				
Common truncus	NH White	225	0.68	0.59 – 0.77
	NH Black	82	0.74	0.59 – 0.92
	Hispanic	414	0.89	0.81 – 0.98
	NH Asian/Pacific Islander	20	0.48	0.29 – 0.74

Birth Defect	Mother's Race/Ethnicity	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Transposition of the great vessels	Non-Hispanic (NH) White	1,207	3.65	3.44 – 3.85
	NH Black	252	2.27	1.99 – 2.55
	Hispanic	1,565	3.38	3.21 – 3.55
	NH Asian/Pacific Islander	122	2.92	2.41 – 3.44
Double outlet right ventricle	NH White	687	2.08	1.92 – 2.23
	NH Black	285	2.56	2.27 – 2.86
	Hispanic	1,233	2.66	2.52 – 2.81
	NH Asian/Pacific Islander	80	1.92	1.52 – 2.39
Tetralogy of Fallot	NH White	1,314	3.97	3.76 – 4.18
	NH Black	530	4.77	4.36 – 5.17
	Hispanic	1,796	3.88	3.70 – 4.06
	NH Asian/Pacific Islander	184	4.41	3.77 – 5.05
Ventricular septal defect	NH White	18,797	56.79	55.97 – 57.60
	NH Black	5,642	50.75	49.43 – 52.08
	Hispanic	33,576	72.56	71.79 – 73.34
	NH Asian/Pacific Islander	2,123	50.88	48.72 – 53.05
Atrial septal defect	NH White	22,643	68.41	67.51 – 69.30
	NH Black	8,904	80.10	78.43 – 81.76
	Hispanic	37,474	80.99	80.17 – 81.81
	NH Asian/Pacific Islander	2,372	56.85	54.56 – 59.14
Atrioventricular septal defect	NH White	1,601	4.84	4.60 – 5.07
	NH Black	606	5.45	5.02 – 5.89
	Hispanic	1,899	4.10	3.92 – 4.29
	NH Asian/Pacific Islander	119	2.85	2.34 – 3.36
Pulmonary valve atresia or stenosis	NH White	3,050	9.21	8.89 – 9.54
	NH Black	1,323	11.90	11.26 – 12.54
	Hispanic	5,074	10.97	10.66 – 11.27
	NH Asian/Pacific Islander	290	6.95	6.15 – 7.75
Tricuspid valve atresia or stenosis	NH White	596	1.80	1.66 – 1.95
	NH Black	267	2.40	2.11 – 2.69
	Hispanic	929	2.01	1.88 – 2.14
	NH Asian/Pacific Islander	79	1.89	1.50 – 2.36
Ebstein anomaly	NH White	250	0.76	0.66 – 0.85
	NH Black	45	0.40	0.30 – 0.54
	Hispanic	402	0.87	0.78 – 0.95
	NH Asian/Pacific Islander	31	0.74	0.50 – 1.05
Aortic valve stenosis	NH White	925	2.79	2.61 – 2.97
	NH Black	168	1.51	1.28 – 1.74
	Hispanic	1,163	2.51	2.37 – 2.66
	NH Asian/Pacific Islander	66	1.58	1.22 – 2.01
Hypoplastic left heart syndrome	NH White	845	2.55	2.38 – 2.72
	NH Black	248	2.23	1.95 – 2.51
	Hispanic	977	2.11	1.98 – 2.24
	NH Asian/Pacific Islander	41	0.98	0.71 – 1.33
Patent ductus arteriosus	NH White	16,291	49.22	48.46 – 49.97
	NH Black	5,982	53.81	52.45 – 55.17
	Hispanic	28,057	60.64	59.93 – 61.35
	NH Asian/Pacific Islander	1,883	45.13	43.09 – 47.17

Birth Defect	Mother's Race/Ethnicity	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Coarctation of the aorta	Non-Hispanic (NH) White	1,943	5.87	5.61 – 6.13
	NH Black	427	3.84	3.48 – 4.21
	Hispanic	2,539	5.49	5.27 – 5.70
	NH Asian/Pacific Islander	151	3.62	3.04 – 4.20
<i>Respiratory</i>				
Choanal atresia or stenosis	NH White	483	1.46	1.33 – 1.59
	NH Black	147	1.32	1.11 – 1.54
	Hispanic	572	1.24	1.13 – 1.34
	NH Asian/Pacific Islander	32	0.77	0.52 – 1.08
Agenesis, aplasia, or hypoplasia of the lung	NH White	813	2.46	2.29 – 2.62
	NH Black	362	3.26	2.92 – 3.59
	Hispanic	1,477	3.19	3.03 – 3.35
	NH Asian/Pacific Islander	80	1.92	1.52 – 2.39
<i>Orofacial</i>				
Cleft palate alone (without cleft lip)	NH White	2,180	6.59	6.31 – 6.86
	NH Black	505	4.54	4.15 – 4.94
	Hispanic	2,668	5.77	5.55 – 5.98
	NH Asian/Pacific Islander	268	6.42	5.65 – 7.19
Cleft lip alone (without cleft palate)	NH White	1,318	3.98	3.77 – 4.20
	NH Black	320	2.88	2.56 – 3.19
	Hispanic	1,405	3.04	2.88 – 3.20
	NH Asian/Pacific Islander	138	3.31	2.76 – 3.86
Cleft lip with cleft palate	NH White	2,314	6.99	6.71 – 7.28
	NH Black	491	4.42	4.03 – 4.81
	Hispanic	3,926	8.48	8.22 – 8.75
	NH Asian/Pacific Islander	261	6.26	5.50 – 7.01
<i>Gastrointestinal</i>				
Esophageal atresia/ tracheoesophageal fistula	NH White	841	2.54	2.37 – 2.71
	NH Black	217	1.95	1.69 – 2.21
	Hispanic	971	2.10	1.97 – 2.23
	NH Asian/Pacific Islander	71	1.70	1.33 – 2.15
Pyloric stenosis	NH White	5,786	17.48	17.03 – 17.93
	NH Black	739	6.65	6.17 – 7.13
	Hispanic	8,304	17.95	17.56 – 18.33
	NH Asian/Pacific Islander	182	4.36	3.73 – 5.00
Stenosis or atresia of the small intestine	NH White	1,107	3.34	3.15 – 3.54
	NH Black	390	3.51	3.16 – 3.86
	Hispanic	1,735	3.75	3.57 – 3.93
	NH Asian/Pacific Islander	96	2.30	1.86 – 2.81
Stenosis or atresia of large intestine, rectum, anal canal	NH White	1,683	5.08	4.84 – 5.33
	NH Black	488	4.39	4.00 – 4.78
	Hispanic	2,698	5.83	5.61 – 6.05
	NH Asian/Pacific Islander	190	4.55	3.91 – 5.20
Hirschsprung disease	NH White	582	1.76	1.62 – 1.90
	NH Black	256	2.30	2.02 – 2.58
	Hispanic	454	0.98	0.89 – 1.07
	NH Asian/Pacific Islander	79	1.89	1.50 – 2.36

Birth Defect	Mother's Race/Ethnicity	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Biliary atresia	Non-Hispanic (NH) White	184	0.56	0.48 – 0.64
	NH Black	103	0.93	0.75 – 1.11
	Hispanic	324	0.70	0.62 – 0.78
	NH Asian/Pacific Islander	47	1.13	0.83 – 1.50
<i>Genitourinary</i>				
Hypospadias (among males)	NH White	14,667	86.41	85.01 – 87.81
	NH Black	4,298	76.01	73.74 – 78.28
	Hispanic	10,151	43.02	42.19 – 43.86
	NH Asian/Pacific Islander	1,322	61.44	58.13 – 64.75
Renal agenesis or dysgenesis	NH White	2,135	6.45	6.18 – 6.72
	NH Black	754	6.78	6.30 – 7.27
	Hispanic	3,218	6.95	6.71 – 7.20
	NH Asian/Pacific Islander	231	5.54	4.82 – 6.25
Bladder exstrophy	NH White	95	0.29	0.23 – 0.35
	NH Black	24	0.22	0.14 – 0.32
	Hispanic	45	0.10	0.07 – 0.13
	NH Asian/Pacific Islander	11	0.26	0.13 – 0.47
<i>Musculoskeletal</i>				
Congenital hip dislocation (without hip dysplasia)	NH White	951	2.87	2.69 – 3.06
	NH Black	143	1.29	1.08 – 1.50
	Hispanic	1,105	2.39	2.25 – 2.53
	NH Asian/Pacific Islander	76	1.82	1.44 – 2.28
Talipes equinovarus (clubfoot)	NH White	5,848	17.67	17.21 – 18.12
	NH Black	1,928	17.34	16.57 – 18.12
	Hispanic	7,987	17.26	16.88 – 17.64
	NH Asian/Pacific Islander	489	11.72	10.68 – 12.76
Reduction defects of the upper limbs	NH White	1,364	4.12	3.90 – 4.34
	NH Black	475	4.27	3.89 – 4.66
	Hispanic	1,980	4.28	4.09 – 4.47
	NH Asian/Pacific Islander	115	2.76	2.25 – 3.26
Reduction defects of the lower limbs	NH White	638	1.93	1.78 – 2.08
	NH Black	305	2.74	2.44 – 3.05
	Hispanic	885	1.91	1.79 – 2.04
	NH Asian/Pacific Islander	41	0.98	0.71 – 1.33
Craniosynostosis	NH White	2,414	7.29	7.00 – 7.58
	NH Black	285	2.56	2.27 – 2.86
	Hispanic	2,620	5.66	5.45 – 5.88
	NH Asian/Pacific Islander	140	3.36	2.80 – 3.91
Achondroplasia	NH White	150	0.45	0.38 – 0.53
	NH Black	47	0.42	0.31 – 0.56
	Hispanic	129	0.28	0.23 – 0.33
	NH Asian/Pacific Islander	27	0.65	0.43 – 0.94
Diaphragmatic hernia	NH White	957	2.89	2.71 – 3.07
	NH Black	265	2.38	2.10 – 2.67
	Hispanic	1,417	3.06	2.90 – 3.22
	NH Asian/Pacific Islander	99	2.37	1.93 – 2.89

Birth Defect	Mother's Race/Ethnicity	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Omphalocele	Non-Hispanic (NH) White	736	2.22	2.06 – 2.38
	NH Black	278	2.50	2.21 – 2.79
	Hispanic	966	2.09	1.96 – 2.22
	NH Asian/Pacific Islander	70	1.68	1.31 – 2.12
Gastroschisis	NH White	1,617	4.89	4.65 – 5.12
	NH Black	366	3.29	2.96 – 3.63
	Hispanic	2,681	5.79	5.57 – 6.01
	NH Asian/Pacific Islander	78	1.87	1.48 – 2.33
<i>Chromosomal</i>				
Down syndrome (trisomy 21)	NH White	4,186	12.65	12.26 – 13.03
	NH Black	1,202	10.81	10.20 – 11.42
	Hispanic	7,407	16.01	15.64 – 16.37
	NH Asian/Pacific Islander	458	10.98	9.97 – 11.98
Patau syndrome (trisomy 13)	NH White	378	1.14	1.03 – 1.26
	NH Black	150	1.35	1.13 – 1.57
	Hispanic	509	1.10	1.00 – 1.20
	NH Asian/Pacific Islander	43	1.03	0.75 – 1.39
Edwards syndrome (trisomy 18)	NH White	768	2.32	2.16 – 2.48
	NH Black	302	2.72	2.41 – 3.02
	Hispanic	1,144	2.47	2.33 – 2.62
	NH Asian/Pacific Islander	101	2.42	1.95 – 2.89
<i>Infants & fetuses with regular reportable birth defects</i>	NH White	167,480	505.97	503.54 – 508.39
	NH Black	57,002	512.76	508.55 – 516.97
	Hispanic	227,928	492.60	490.57 – 494.62
	NH Asian/Pacific Islander	19,618	470.20	463.62 – 476.78

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/MothersRaceEthnicity?:embed=y>

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