

Texas Birth Defects Registry (TBDR) Annual Report

Table 7. Prevalence of Selected Birth Defects by Border Status, Texas, 1999–2023

Birth Defect	Border Status (La Paz)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
<i>Central Nervous System</i>				
Anencephaly	Border	387	3.23	2.91 – 3.56
	Non-Border	1,953	2.33	2.22 – 2.43
Spina bifida (without anencephaly)	Border	528	4.41	4.04 – 4.79
	Non-Border	3,059	3.64	3.51 – 3.77
Encephalocele	Border	118	0.99	0.81 – 1.16
	Non-Border	831	0.99	0.92 – 1.06
Microcephaly (severe, head circumference <3rd percentile)	Border	467	3.90	3.55 – 4.26
	Non-Border	4,814	5.73	5.57 – 5.89
Holoprosencephaly	Border	161	1.35	1.14 – 1.55
	Non-Border	823	0.98	0.91 – 1.05
Hydrocephaly (without spina bifida)	Border	1,078	9.01	8.47 – 9.55
	Non-Border	6,946	8.27	8.07 – 8.46
<i>Eye & Ear</i>				
Anophthalmia or Microphthalmia	Border	350	2.93	2.62 – 3.23
	Non-Border	2,494	2.97	2.85 – 3.09
Cataract	Border	135	1.13	0.94 – 1.32
	Non-Border	1,782	2.12	2.02 – 2.22
Anotia or Microtia	Border	523	4.37	4.00 – 4.75
	Non-Border	3,086	3.67	3.54 – 3.80
<i>Cardiovascular</i>				
Common truncus	Border	127	1.06	0.88 – 1.25
	Non-Border	624	0.74	0.68 – 0.80
Transposition of the great vessels	Border	383	3.20	2.88 – 3.52
	Non-Border	2,801	3.33	3.21 – 3.46
Double outlet right ventricle	Border	323	2.70	2.41 – 2.99
	Non-Border	1,992	2.37	2.27 – 2.48
Tetralogy of Fallot	Border	521	4.35	3.98 – 4.73
	Non-Border	3,369	4.01	3.88 – 4.15
Ventricular septal defect	Border	9,678	80.89	79.28 – 82.50
	Non-Border	51,198	60.95	60.42 – 61.48
Atrial septal defect	Border	10,416	87.06	85.38 – 88.73
	Non-Border	61,897	73.69	73.11 – 74.27
Atrioventricular septal defect	Border	488	4.08	3.72 – 4.44
	Non-Border	3,798	4.52	4.38 – 4.67
Pulmonary valve atresia or stenosis	Border	1,595	13.33	12.68 – 13.99
	Non-Border	8,283	9.86	9.65 – 10.07
Tricuspid valve atresia or stenosis	Border	248	2.07	1.81 – 2.33
	Non-Border	1,646	1.96	1.86 – 2.05
Ebstein anomaly	Border	125	1.04	0.86 – 1.23
	Non-Border	609	0.73	0.67 – 0.78
Aortic valve stenosis	Border	370	3.09	2.78 – 3.41
	Non-Border	1,975	2.35	2.25 – 2.45
Hypoplastic left heart syndrome	Border	263	2.20	1.93 – 2.46
	Non-Border	1,868	2.22	2.12 – 2.32

Birth Defect	Border Status (La Paz)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Patent ductus arteriosus	Border	9,593	80.18	78.57 – 81.78
	Non-Border	43,200	51.43	50.94 – 51.91
Coarctation of the aorta	Border	802	6.70	6.24 – 7.17
	Non-Border	4,312	5.13	4.98 – 5.29
<i>Respiratory</i>				
Choanal atresia or stenosis	Border	146	1.22	1.02 – 1.42
	Non-Border	1,102	1.31	1.23 – 1.39
Agenesis, aplasia, or hypoplasia of the lung	Border	414	3.46	3.13 – 3.79
	Non-Border	2,352	2.80	2.69 – 2.91
<i>Orofacial</i>				
Cleft palate alone (without cleft lip)	Border	629	5.26	4.85 – 5.67
	Non-Border	5,078	6.05	5.88 – 6.21
Cleft lip alone (without cleft palate)	Border	407	3.40	3.07 – 3.73
	Non-Border	2,818	3.35	3.23 – 3.48
Cleft lip with cleft palate	Border	1,061	8.87	8.33 – 9.40
	Non-Border	6,033	7.18	7.00 – 7.36
<i>Gastrointestinal</i>				
Esophageal atresia/ tracheoesophageal fistula	Border	285	2.38	2.11 – 2.66
	Non-Border	1,844	2.20	2.10 – 2.30
Pyloric stenosis	Border	2,302	19.24	18.45 – 20.03
	Non-Border	12,828	15.27	15.01 – 15.54
Stenosis or atresia of the small intestine	Border	466	3.89	3.54 – 4.25
	Non-Border	2,909	3.46	3.34 – 3.59
Stenosis or atresia of large intestine, rectum, or anal canal	Border	727	6.08	5.63 – 6.52
	Non-Border	4,407	5.25	5.09 – 5.40
Hirschsprung disease	Border	128	1.07	0.88 – 1.26
	Non-Border	1,269	1.51	1.43 – 1.59
Biliary atresia	Border	88	0.74	0.59 – 0.91
	Non-Border	587	0.70	0.64 – 0.76
<i>Genitourinary</i>				
Hypospadias (among males)	Border	2,547	41.74	40.12 – 43.36
	Non-Border	28,347	66.01	65.25 – 66.78
Renal agenesis or dysgenesis	Border	823	6.88	6.41 – 7.35
	Non-Border	5,627	6.70	6.52 – 6.87
Bladder exstrophy	Border	17	0.14	0.08 – 0.23
	Non-Border	158	0.19	0.16 – 0.22
<i>Musculoskeletal</i>				
Congenital hip dislocation (without hip dysplasia)	Border	307	2.57	2.28 – 2.85
	Non-Border	1,989	2.37	2.26 – 2.47
Talipes equinovarus (clubfoot)	Border	2,079	17.38	16.63 – 18.12
	Non-Border	14,422	17.17	16.89 – 17.45
Reduction defects of the upper limbs	Border	470	3.93	3.57 – 4.28
	Non-Border	3,521	4.19	4.05 – 4.33
Reduction defects of the lower limbs	Border	226	1.89	1.64 – 2.14
	Non-Border	1,684	2.00	1.91 – 2.10
Craniosynostosis	Border	745	6.23	5.78 – 6.67
	Non-Border	4,785	5.70	5.54 – 5.86
Achondroplasia	Border	39	0.33	0.23 – 0.45
	Non-Border	319	0.38	0.34 – 0.42

Birth Defect	Border Status (La Paz)	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Diaphragmatic hernia	Border	323	2.70	2.41 – 2.99
	Non-Border	2,436	2.90	2.78 – 3.02
Omphalocele	Border	267	2.23	1.96 – 2.50
	Non-Border	1,819	2.17	2.07 – 2.27
Gastroschisis	Border	721	6.03	5.59 – 6.47
	Non-Border	4,086	4.86	4.72 – 5.01
<i>Chromosomal</i>				
Down syndrome (trisomy 21)	Border	1,886	15.76	15.05 – 16.47
	Non-Border	11,557	13.76	13.51 – 14.01
Patau syndrome (trisomy 13)	Border	140	1.17	0.98 – 1.36
	Non-Border	958	1.14	1.07 – 1.21
Edwards syndrome (trisomy 18)	Border	291	2.43	2.15 – 2.71
	Non-Border	2,071	2.47	2.36 – 2.57
<i>Infants & fetuses with regular reportable birth defects</i>	Border	54,195	452.96	449.15 – 456.77
	Non-Border	424,931	505.87	504.35 – 507.39

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/BorderStatus?:embed=y>

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