

**Department of Defense
Birth Defects Counts and Prevalence 2014 - 2018 (Prevalence per 10,000 Live Births)**

Defect	Maternal Race/Ethnicity					Total*	Notes
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaska Native, Non-Hispanic		
Anencephalus	20 <i>0.6</i>	3 <i>0.4</i>	6 <i>0.8</i>	2 <i>0.7</i>	1 <i>1.2</i>	33 <i>0.6</i>	
Anophthalmia/microphthalmia	49 <i>1.4</i>	16 <i>2.1</i>	13 <i>1.8</i>	2 <i>0.7</i>	2 <i>2.3</i>	83 <i>1.5</i>	
Anotia/microtia	105 <i>3.0</i>	14 <i>1.8</i>	34 <i>4.7</i>	12 <i>4.3</i>	6 <i>7.0</i>	183 <i>3.3</i>	
Aortic valve stenosis	117 <i>3.3</i>	15 <i>1.9</i>	19 <i>2.6</i>	3 <i>1.1</i>	3 <i>3.5</i>	163 <i>2.9</i>	
Atrial septal defect	5,034 <i>142.3</i>	1,186 <i>153.7</i>	1,042 <i>142.7</i>	320 <i>115.9</i>	103 <i>119.3</i>	7,954 <i>142.0</i>	1
Atrioventricular septal defect (Endocardial cushion defect)	216 <i>6.1</i>	47 <i>6.1</i>	38 <i>5.2</i>	19 <i>6.9</i>	8 <i>9.3</i>	349 <i>6.2</i>	2
Biliary atresia	84 <i>2.4</i>	41 <i>5.3</i>	19 <i>2.6</i>	9 <i>3.3</i>	0 <i>0.0</i>	158 <i>2.8</i>	
Bladder exstrophy	13 <i>0.4</i>	5 <i>0.6</i>	0 <i>0.0</i>	0 <i>0.0</i>	0 <i>0.0</i>	18 <i>0.3</i>	
Choanal atresia	101 <i>2.9</i>	16 <i>2.1</i>	17 <i>2.3</i>	4 <i>1.4</i>	3 <i>3.5</i>	143 <i>2.6</i>	
Cleft lip alone	240 <i>6.8</i>	27 <i>3.5</i>	26 <i>3.6</i>	18 <i>6.5</i>	6 <i>7.0</i>	327 <i>5.8</i>	
Cleft lip with cleft palate	257 <i>7.3</i>	37 <i>4.8</i>	38 <i>5.2</i>	24 <i>8.7</i>	9 <i>10.4</i>	378 <i>6.8</i>	
Cleft palate alone	396 <i>11.2</i>	53 <i>6.9</i>	78 <i>10.7</i>	29 <i>10.5</i>	11 <i>12.7</i>	590 <i>10.5</i>	
Cloacal exstrophy	106 <i>3.0</i>	26 <i>3.4</i>	23 <i>3.1</i>	7 <i>2.5</i>	2 <i>2.3</i>	171 <i>3.1</i>	
Clubfoot	910 <i>25.7</i>	159 <i>20.6</i>	148 <i>20.3</i>	48 <i>17.4</i>	11 <i>12.7</i>	1,313 <i>23.4</i>	
Coarctation of the aorta	381 <i>10.8</i>	73 <i>9.5</i>	62 <i>8.5</i>	15 <i>5.4</i>	11 <i>12.7</i>	558 <i>10.0</i>	
Common truncus (truncus arteriosus)	53 <i>1.5</i>	5 <i>0.6</i>	9 <i>1.2</i>	1 <i>0.4</i>	5 <i>5.8</i>	75 <i>1.3</i>	
Congenital cataract	134 <i>3.8</i>	34 <i>4.4</i>	25 <i>3.4</i>	7 <i>2.5</i>	2 <i>2.3</i>	213 <i>3.8</i>	
Congenital posterior urethral valves	64 <i>3.5</i>	16 <i>4.0</i>	6 <i>1.6</i>	4 <i>2.8</i>	2 <i>4.5</i>	95 <i>3.3</i>	3
Craniosynostosis	685 <i>31.1</i>	104 <i>20.9</i>	113 <i>24.0</i>	38 <i>21.3</i>	15 <i>28.2</i>	991 <i>28.1</i>	4
Deletion 22q11.2	59 <i>1.7</i>	7 <i>0.9</i>	10 <i>1.4</i>	2 <i>0.7</i>	1 <i>1.2</i>	80 <i>1.4</i>	
Diaphragmatic hernia	141 <i>4.0</i>	38 <i>4.9</i>	36 <i>4.9</i>	12 <i>4.3</i>	3 <i>3.5</i>	235 <i>4.2</i>	
Double outlet right ventricle	103 <i>2.9</i>	29 <i>3.8</i>	19 <i>2.6</i>	6 <i>2.2</i>	5 <i>5.8</i>	168 <i>3.0</i>	
Ebstein anomaly	47 <i>1.3</i>	8 <i>1.0</i>	11 <i>1.5</i>	2 <i>0.7</i>	3 <i>3.5</i>	77 <i>1.4</i>	
Encephalocele	47 <i>1.3</i>	7 <i>0.9</i>	6 <i>0.8</i>	3 <i>1.1</i>	1 <i>1.2</i>	67 <i>1.2</i>	
Esophageal atresia/tracheoesophageal fistula	109 <i>3.1</i>	14 <i>1.8</i>	21 <i>2.9</i>	6 <i>2.2</i>	2 <i>2.3</i>	157 <i>2.8</i>	
Gastroschisis	155 <i>4.4</i>	48 <i>6.2</i>	44 <i>6.0</i>	13 <i>4.7</i>	5 <i>5.8</i>	275 <i>4.9</i>	
Holoprosencephaly	94 <i>2.7</i>	27 <i>3.5</i>	16 <i>2.2</i>	3 <i>1.1</i>	4 <i>4.6</i>	151 <i>2.7</i>	
Hypoplastic left heart syndrome	136 <i>3.8</i>	32 <i>4.1</i>	22 <i>3.0</i>	8 <i>2.9</i>	4 <i>4.6</i>	214 <i>3.8</i>	
Hypospadias	2,190 <i>120.2</i>	448 <i>113.4</i>	328 <i>87.9</i>	122 <i>85.0</i>	48 <i>109.1</i>	3,259 <i>113.2</i>	3
Interrupted aortic arch	161 <i>4.6</i>	34 <i>4.4</i>	28 <i>3.8</i>	8 <i>2.9</i>	6 <i>7.0</i>	245 <i>4.4</i>	

Department of Defense
Birth Defects Counts and Prevalence 2014 - 2018 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity					Total*	Notes
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaska Native, Non-Hispanic		
Limb deficiencies (reduction defects)	207 <i>5.9</i>	47 <i>6.1</i>	35 <i>4.8</i>	11 <i>4.0</i>	3 <i>3.5</i>	315 <i>5.6</i>	
Omphalocele	112 <i>3.2</i>	53 <i>6.9</i>	17 <i>2.3</i>	5 <i>1.8</i>	1 <i>1.2</i>	195 <i>3.5</i>	
Pulmonary valve atresia and stenosis	485 <i>13.7</i>	146 <i>18.9</i>	104 <i>14.2</i>	34 <i>12.3</i>	12 <i>13.9</i>	804 <i>14.4</i>	
Pulmonary valve atresia	30 <i>0.8</i>	4 <i>0.5</i>	8 <i>1.1</i>	3 <i>1.1</i>	0 <i>0.0</i>	48 <i>0.9</i>	
Rectal and large intestinal atresia/stenosis	175 <i>4.9</i>	37 <i>4.8</i>	45 <i>6.2</i>	15 <i>5.4</i>	5 <i>5.8</i>	291 <i>5.2</i>	
Renal agenesis/hypoplasia	276 <i>7.8</i>	59 <i>7.6</i>	52 <i>7.1</i>	22 <i>8.0</i>	5 <i>5.8</i>	422 <i>7.5</i>	
Single ventricle	90 <i>2.5</i>	25 <i>3.2</i>	14 <i>1.9</i>	6 <i>2.2</i>	2 <i>2.3</i>	145 <i>2.6</i>	
Small intestinal atresia/stenosis	181 <i>5.1</i>	47 <i>6.1</i>	32 <i>4.4</i>	16 <i>5.8</i>	3 <i>3.5</i>	284 <i>5.1</i>	
Spina bifida without anencephalus	195 <i>5.5</i>	17 <i>2.2</i>	32 <i>4.4</i>	7 <i>2.5</i>	1 <i>1.2</i>	255 <i>4.6</i>	
Tetralogy of Fallot	240 <i>6.8</i>	49 <i>6.3</i>	38 <i>5.2</i>	23 <i>8.3</i>	5 <i>5.8</i>	364 <i>6.5</i>	
Total anomalous pulmonary venous connection	44 <i>1.2</i>	4 <i>0.5</i>	8 <i>1.1</i>	2 <i>0.7</i>	3 <i>3.5</i>	63 <i>1.1</i>	
Transposition of the great arteries (TGA)	153 <i>4.3</i>	31 <i>4.0</i>	19 <i>2.6</i>	8 <i>2.9</i>	4 <i>4.6</i>	225 <i>4.0</i>	
Dextro-transposition of great arteries (d-TGA)	145 <i>4.1</i>	28 <i>3.6</i>	19 <i>2.6</i>	8 <i>2.9</i>	4 <i>4.6</i>	214 <i>3.8</i>	
Tricuspid valve atresia and stenosis	48 <i>1.4</i>	16 <i>2.1</i>	9 <i>1.2</i>	2 <i>0.7</i>	1 <i>1.2</i>	79 <i>1.4</i>	5
Trisomy 13	33 <i>0.9</i>	13 <i>1.7</i>	6 <i>0.8</i>	3 <i>1.1</i>	0 <i>0.0</i>	56 <i>1.0</i>	
Trisomy 18	66 <i>1.9</i>	19 <i>2.5</i>	14 <i>1.9</i>	7 <i>2.5</i>	1 <i>1.2</i>	110 <i>2.0</i>	
Trisomy 21 (Down syndrome)	523 <i>14.8</i>	105 <i>13.6</i>	92 <i>12.6</i>	36 <i>13.0</i>	8 <i>9.3</i>	786 <i>14.0</i>	
Turner syndrome	50 <i>2.9</i>	10 <i>2.7</i>	14 <i>3.9</i>	4 <i>3.0</i>	0 <i>0.0</i>	79 <i>2.9</i>	6
Ventricular septal defect	2,665 <i>75.3</i>	507 <i>65.7</i>	546 <i>74.8</i>	159 <i>57.6</i>	62 <i>71.8</i>	4,080 <i>72.9</i>	7
Total live births	353,830	77,182	73,033	27,614	8,632	559,991	
Male live births	182,173	39,507	37,306	14,355	4,398	287,917	
Female live births	171,657	37,675	35,727	13,259	4,234	272,074	

**Department of Defense
Birth Defects Counts and Prevalence 2014 - 2018 (Prevalence per 10,000 Live Births)**

Defect	Maternal Age (Years)		Total*	Notes
	Less than 35	35+		
Gastroschisis	243 <i>5.1</i>	4 <i>0.6</i>	275 <i>4.9</i>	
Trisomy 13	36 <i>0.8</i>	18 <i>2.8</i>	56 <i>1.0</i>	
Trisomy 18	66 <i>1.4</i>	38 <i>5.9</i>	110 <i>2.0</i>	
Trisomy 21 (Down syndrome)	455 <i>9.5</i>	296 <i>45.6</i>	786 <i>14.0</i>	
Total live births	476,445	64,909	559,991	

Notes

1. Data for this condition include patent foramen ovale.
2. Data for this condition include inlet ventricular septal defect.
3. Data for this condition include male and unknown gender cases only. Prevalence is calculated per 10,000 male live births.
4. Data for this condition include only those cases captured through ICD-10-CM codes and is restricted to infants whose first year of life occurred in fiscal year 2016 or later.
5. Data for this condition include cases with tricuspid stenosis or hypoplasia.
6. Data for this condition include female and unknown gender cases only. Prevalence is calculated per 10,000 female live births.
7. Data for this condition include inlet ventricular septal defect and probable ventricular septal defect.

General comments

*Data for totals include unknown and/or other.

-Data for all conditions exclude infants that appear as multiples of same gender.

-Infants born in 2018 may not have a full year of follow-up data available.

-Minimum criteria for a case: One diagnosis from institutional records, or two diagnoses from professional encounter records from different dates.

-Race/ethnicity for the Department of Defense Birth and Infant Health Research (BIHR) program is based on the military parent through whom the infant receives military health care benefits. This may be the infant's mother or father. The BIHR program does not account for multiple races.