

Alaska

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	<6 (†)	0 (0.0)	<6 (†)	0 (0.0)	<6 (†)
Anophthalmia / microphthalmia	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Anotia / microtia	13 (5.0)	<6 (†)	<6 (†)	6 (13.8)	6 (5.9)
Aortic valve stenosis	<6 (†)	0 (0.0)	<6 (†)	<6 (†)	<6 (†)
Atrial septal defect	461 (178.0)	39 (211.2)	83 (210.2)	90 (206.7)	393 (387.4)
Atrioventricular septal defect (endocardial cushion defect)	14 (5.4)	<6 (†)	<6 (†)	<6 (†)	<6 (†)
Biliary atresia	<6 (†)	<6 (†)	<6 (†)	<6 (†)	12 (11.8)
Bladder exstrophy	0 (0.0)	0 (0.0)	<6 (†)	0 (0.0)	0 (0.0)
Choanal atresia	7 (2.7)	<6 (†)	<6 (†)	<6 (†)	<6 (†)
Cleft lip alone (without cleft palate)	7 (2.7)	0 (0.0)	<6 (†)	0 (0.0)	7 (6.9)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

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Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	10 (3.9)	0 (0.0)	<6 (†)	<6 (†)	13 (12.8)
Cleft palate alone (without cleft lip)	18 (7.0)	<6 (†)	<6 (†)	<6 (†)	20 (19.7)
Cloacal exstrophy	<6 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	21 (8.1)	<6 (†)	<6 (†)	<6 (†)	8 (7.9)
Coarctation of aorta	9 (3.5)	0 (0.0)	<6 (†)	<6 (†)	<6 (†)
Common truncus (truncus arteriosus or TA)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Congenital cataract	15 (5.8)	<6 (†)	<6 (†)	<6 (†)	<6 (†)
Congenital posterior urethral valves	6 (4.5)	0 (0.0)	<6 (†)	0 (0.0)	<6 (†)
Craniosynostosis	29 (11.2)	<6 (†)	<6 (†)	<6 (†)	15 (14.8)
Deletion 22q11.2	<6 (†)	0 (0.0)	0 (0.0)	<6 (†)	<6 (†)
Dextro-Transposition of	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

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Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	<6 (†)	0 (0.0)	<6 (†)	<6 (†)	7 (6.9)
Double outlet right ventricle (DORV)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Ebstein anomaly	<6 (†)	0 (0.0)	0 (0.0)	0 (0.0)	<6 (†)
Encephalocele	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	9 (3.5)	<6 (†)	<6 (†)	<6 (†)	<6 (†)
Gastroschisis	6 (2.3)	<6 (†)	<6 (†)	<6 (†)	11 (10.8)
Holoprosencephaly	<6 (†)	0 (0.0)	0 (0.0)	0 (0.0)	<6 (†)
Hypoplastic left heart syndrome	<6 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Hypospadias	124 (92.6)	8 (87.4)	9 (45.5)	13 (56.6)	29 (55.9)
Interrupted aortic arch (IAA)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

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Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	8 (3.1)	<6 (†)	<6 (†)	<6 (†)	8 (7.9)
Omphalocele	29 (11.2)	10 (54.1)	<6 (†)	8 (18.4)	25 (24.6)
Pulmonary valve atresia	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Pulmonary valve atresia and stenosis	22 (8.5)	<6 (†)	<6 (†)	<6 (†)	29 (28.6)
Rectal and large intestinal atresia / stenosis	11 (4.2)	0 (0.0)	<6 (†)	<6 (†)	16 (15.8)
Renal agenesis / hypoplasia	25 (9.7)	<6 (†)	7 (17.7)	<6 (†)	8 (7.9)
Single ventricle	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	6 (2.3)	<6 (†)	<6 (†)	<6 (†)	15 (14.8)
Spina bifida without anencephaly	<6 (†)	0 (0.0)	0 (0.0)	<6 (†)	<6 (†)

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Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	<6 (†)	0 (0.0)	0 (0.0)	0 (0.0)	<6 (†)
Total anomalous pulmonary venous connection (TAPVC)	<6 (†)	0 (0.0)	<6 (†)	<6 (†)	<6 (†)
Transposition of the great arteries (TGA)	<6 (†)	0 (0.0)	<6 (†)	<6 (†)	<6 (†)
Tricuspid valve atresia	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Trisomy 13	<6 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Trisomy 18	<6 (†)	<6 (†)	0 (0.0)	<6 (†)	0 (0.0)
Trisomy 21 (Down syndrome)	34 (13.1)	<6 (†)	<6 (†)	8 (18.4)	10 (9.9)
Turner syndrome	<6 (†)	0 (0.0)	<6 (†)	<6 (†)	<6 (†)

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Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	219 (84.6)	9 (48.7)	24 (60.8)	25 (57.4)	191 (188.3)
Total live births	25896	1847	3948	4354	10145
Male Live Births	13391	915	1979	2295	5186
Female Live Births	12505	932	1969	2059	4959

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General comments

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Alaska

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	28 (7.0)	<6 (†)	31 (6.4)
Trisomy 13	<6 (†)	0 (0.0)	<6 (†)
Trisomy 18	<6 (†)	<6 (†)	6 (1.2)

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Alaska
Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	29 (7.2)	34 (41.0)	63 (13.0)
Total live births	40073	8294	48376
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Arkansas

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	17 (1.5)	7 (2.2)	6 (3.1)	0 (0.0)	0 (0.0)
Anophthalmia / microphthalmia	10 (0.9)	6 (1.9)	<5 (†)	<5 (†)	0 (0.0)
Anotia / microtia	28 (2.5)	7 (2.2)	15 (7.7)	<5 (†)	<5 (†)
Aortic valve stenosis	27 (2.4)	5 (1.6)	<5 (†)	<5 (†)	<5 (†)
Atrial septal defect	419 (37.8)	150 (46.8)	73 (37.3)	25 (41.3)	11 (97.6)
Atrioventricular septal defect (endocardial cushion defect)	108 (9.8)	21 (6.6)	13 (6.6)	5 (8.3)	0 (0.0)
Biliary atresia	5 (0.5)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Bladder exstrophy	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Choanal atresia	6 (0.5)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Cleft lip alone (without cleft palate)	50 (4.5)	10 (3.1)	12 (6.1)	<5 (†)	<5 (†)

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Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	73 (6.6)	17 (5.3)	22 (11.2)	6 (9.9)	0 (0.0)
Cleft palate alone (without cleft lip)	77 (7.0)	9 (2.8)	10 (5.1)	7 (11.6)	0 (0.0)
Cloacal exstrophy	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	203 (18.3)	42 (13.1)	19 (9.7)	8 (13.2)	5 (44.4)
Coarctation of aorta	76 (6.9)	14 (4.4)	16 (8.2)	<5 (†)	<5 (†)
Common truncus (truncus arteriosus or TA)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)	<5 (†)
Congenital cataract	21 (1.9)	9 (2.8)	6 (3.1)	<5 (†)	<5 (†)
Congenital posterior urethral valves	24 (4.2)	5 (3.1)	0 (0.0)	0 (0.0)	0 (0.0)
Craniosynostosis	126 (11.4)	49 (15.3)	8 (4.1)	<5 (†)	<5 (†)
Deletion 22q11.2	16 (1.4)	6 (1.9)	6 (3.1)	<5 (†)	0 (0.0)
Dextro-Transposition of	32 (2.9)	6 (1.9)	6 (3.1)	<5 (†)	<5 (†)

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Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	39 (3.5)	6 (1.9)	7 (3.6)	<5 (†)	<5 (†)
Double outlet right ventricle (DORV)	28 (2.5)	12 (3.7)	<5 (†)	<5 (†)	<5 (†)
Ebstein anomaly	8 (0.7)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Encephalocele	6 (0.5)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	25 (2.3)	6 (1.9)	<5 (†)	<5 (†)	<5 (†)
Gastroschisis	65 (5.9)	14 (4.4)	12 (6.1)	<5 (†)	<5 (†)
Holoprosencephaly	14 (1.3)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Hypoplastic left heart syndrome	33 (3.0)	<5 (†)	6 (3.1)	<5 (†)	0 (0.0)
Hypospadias	674 (118.9)	134 (83.4)	36 (36.0)	17 (53.8)	7 (116.3)
Interrupted aortic arch (IAA)	11 (1.0)	<5 (†)	<5 (†)	0 (0.0)	<5 (†)

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Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	60 (5.4)	13 (4.1)	8 (4.1)	<5 (†)	<5 (†)
Omphalocele	23 (2.1)	11 (3.4)	<5 (†)	<5 (†)	<5 (†)
Pulmonary valve atresia	11 (1.0)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Pulmonary valve atresia and stenosis	143 (12.9)	54 (16.9)	21 (10.7)	9 (14.9)	6 (53.2)
Rectal and large intestinal atresia / stenosis	42 (3.8)	12 (3.7)	<5 (†)	5 (8.3)	0 (0.0)
Renal agenesis / hypoplasia	18 (1.6)	7 (2.2)	0 (0.0)	<5 (†)	<5 (†)
Single ventricle	11 (1.0)	<5 (†)	<5 (†)	0 (0.0)	<5 (†)
Small intestinal atresia / stenosis	41 (3.7)	12 (3.7)	12 (6.1)	<5 (†)	0 (0.0)
Spina bifida without anencephaly	55 (5.0)	7 (2.2)	<5 (†)	<5 (†)	0 (0.0)

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Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	60 (5.4)	25 (7.8)	9 (4.6)	7 (11.6)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	21 (1.9)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Transposition of the great arteries (TGA)	36 (3.3)	8 (2.5)	6 (3.1)	<5 (†)	<5 (†)
Tricuspid valve atresia	10 (0.9)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Tricuspid valve atresia and stenosis	13 (1.2)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Trisomy 13	<5 (†)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)
Trisomy 18	28 (2.5)	6 (1.9)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 21 (Down syndrome)	152 (13.7)	42 (13.1)	38 (19.4)	9 (14.9)	0 (0.0)
Turner syndrome	18 (3.3)	<5 (†)	9 (9.4)	0 (0.0)	<5 (†)

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Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	751 (67.8)	181 (56.5)	134 (68.4)	34 (56.2)	13 (115.4)
Total live births	110704	32029	19582	6054	1127
Male Live Births	56697	16059	9999	3157	602
Female Live Births	54006	15970	9583	2897	525

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Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	93 (5.8)	<5 (†)	96 (5.3)
Trisomy 13	5 (0.3)	<5 (†)	7 (0.4)
Trisomy 18	21 (1.3)	15 (7.3)	36 (2.0)

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(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	128 (8.0)	116 (56.1)	245 (13.6)
Total live births	159047	20677	179806
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Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	21 (1.3)	<5 (†)	22 (1.3)	0 (0.0)	<5 (†)
Anophthalmia / microphthalmia	11 (0.7)	0 (0.0)	12 (0.7)	0 (0.0)	<5 (†)
Anotia / microtia	25 (1.5)	<5 (†)	52 (3.0)	<5 (†)	5 (2.1)
Aortic valve stenosis	20 (1.2)	<5 (†)	26 (1.5)	0 (0.0)	<5 (†)
Atrioventricular septal defect (endocardial cushion defect)	99 (6.1)	16 (7.1)	86 (5.0)	6 (5.8)	11 (4.6)
Biliary atresia	13 (0.8)	<5 (†)	12 (0.7)	<5 (†)	<5 (†)
Bladder exstrophy	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Choanal atresia	15 (0.9)	<5 (†)	16 (0.9)	<5 (†)	0 (0.0)
Cleft lip alone (without cleft palate)	47 (2.9)	5 (2.2)	51 (3.0)	<5 (†)	8 (3.3)
Cleft lip with cleft palate	96 (5.9)	9 (4.0)	118 (6.9)	13 (12.6)	33 (13.7)
Cleft palate alone (without cleft lip)	110 (6.7)	5 (2.2)	115 (6.7)	8 (7.7)	22 (9.2)

Notes

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General comments

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Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Coarctation of aorta	85 (5.2)	11 (4.9)	85 (4.9)	<5 (†)	8 (3.3)
Common truncus (truncus arteriosus or TA)	9 (0.6)	0 (0.0)	12 (0.7)	0 (0.0)	<5 (†)
Congenital cataract	8 (0.5)	<5 (†)	8 (0.5)	0 (0.0)	<5 (†)
Dextro-Transposition of great arteries (d-TGA)	32 (2.0)	5 (2.2)	41 (2.4)	<5 (†)	<5 (†)
Diaphragmatic hernia	43 (2.6)	6 (2.7)	61 (3.6)	<5 (†)	5 (2.1)
Double outlet right ventricle (DORV)	26 (1.6)	<5 (†)	52 (3.0)	<5 (†)	8 (3.3)
Ebstein anomaly	20 (1.2)	<5 (†)	17 (1.0)	<5 (†)	<5 (†)
Encephalocele	16 (1.0)	<5 (†)	13 (0.8)	0 (0.0)	<5 (†)
Esophageal atresia / tracheoesophageal fistula	48 (2.9)	<5 (†)	31 (1.8)	5 (4.8)	8 (3.3)
Gastroschisis	73 (4.5)	11 (4.9)	94 (5.5)	<5 (†)	16 (6.7)

Notes

1- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Arizona

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Holoprosencephaly	20 (1.2)	<5 (†)	18 (1.0)	<5 (†)	9 (3.7)
Hypoplastic left heart syndrome	46 (2.8)	<5 (†)	42 (2.4)	<5 (†)	8 (3.3)
Interrupted aortic arch (IAA)	13 (0.8)	0 (0.0)	11 (0.6)	<5 (†)	<5 (†)
Limb deficiencies (reduction defects)	67 (4.1)	9 (4.0)	77 (4.5)	<5 (†)	<5 (†)
Omphalocele	28 (1.7)	13 (5.8)	30 (1.7)	<5 (†)	5 (2.1)
Pulmonary valve atresia	43 (2.6)	<5 (†)	45 (2.6)	<5 (†)	7 (2.9)
Pulmonary valve atresia and stenosis	88 (5.4)	8 (3.6)	85 (4.9)	7 (6.8)	15 (6.2)
Single ventricle	<5 (†)	<5 (†)	9 (0.5)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	47 (3.6)	5 (2.8)	50 (3.6)	<5 (†)	8 (4.3)
Spina bifida without anencephaly	34 (2.1)	<5 (†)	88 (5.1)	<5 (†)	9 (3.7)
Tetralogy of Fallot (TOF)	76 (4.7)	12 (5.4)	58 (3.4)	<5 (†)	6 (2.5)

Notes

1- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Arizona

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Total anomalous pulmonary venous connection (TAPVC)	14 (0.9)	<5 (†)	34 (2.0)	<5 (†)	15 (6.2)
Transposition of the great arteries (TGA)	39 (2.4)	6 (2.7)	52 (3.0)	<5 (†)	5 (2.1)
Tricuspid valve atresia	7 (0.4)	0 (0.0)	15 (0.9)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	7 (0.4)	0 (0.0)	16 (0.9)	0 (0.0)	<5 (†)
Trisomy 13	22 (1.3)	<5 (†)	9 (0.5)	<5 (†)	0 (0.0)
Trisomy 18	34 (2.1)	12 (5.4)	49 (2.9)	<5 (†)	5 (2.1)
Trisomy 21 (Down syndrome)	227 (13.9)	27 (12.1)	300 (17.5)	20 (19.3)	33 (13.7)
Total live births	163210	22404	171779	10338	24032
Male Live Births	Not reported	Not reported	Not reported	Not reported	Not reported
Female Live Births	Not reported	Not reported	Not reported	Not reported	Not reported

Notes

1- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Arizona

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	201 (6.2)	7 (0.9)	208 (5.2)
Trisomy 13	25 (0.8)	12 (1.5)	37 (0.9)
Trisomy 18	58 (1.8)	55 (6.9)	113 (2.8)
Trisomy 21 (Down syndrome)	335 (10.4)	290 (36.6)	625 (15.6)
Total live births	322207	79246	401453
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Arizona

Notes on Specific Birth Defects

Defect	Site Comment
Limb deficiencies (reduction defects)	Limb deficiencies are currently counted multiple times if a case had multiple limb defects (e.g. if a case had both an upper and a lower limb deficiency, then the case was counted twice). Can be modified if needed to only include each case one time in this count.
Small intestinal atresia / stenosis	ABDMP added small intestinal atresia/stenosis to it's reportable birth defects beginning with birth year 2019.
Universal comment	At the time of this data submission, 2022 data is considered provisional.
Universal comment	In this data submission, ABDMP adheres to the requested race/ Hispanic categories for both cases and all live

Arizona

Notes on Specific Birth Defects

Defect	Site Comment
	births. These counts and rates may differ from in-state reports where ABDMP categorizes Whites as Hispanic or non-Hispanic, and other races (i.e., Black, Asian, and American Indian) retain the single race code regardless of Hispanic designation.
Universal comment	Terminations are not included in ABDMP data reports.
Universal comment	Registration of liveborn cases by ABDMP requires an Arizona live birth certificate identification number.
Universal comment	Stillborns are included in this report if there is an Arizona fetal death certificate identification number, regardless of fetal weight or gestational age.
Universal comment	ABDMP data include only confirmed cases with 'most likely,' 'compatible with,' 'probable,' or 'precise' diagnosis. 'Possible' diagnoses are not included.

California

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	12 (0.7)	<5 (†)	52 (1.7)	10 (1.2)	0 (0.0)
Anophthalmia / microphthalmia	14 (0.8)	<5 (†)	34 (1.1)	<5 (†)	0 (0.0)
Anotia / microtia	41 (2.3)	<5 (†)	145 (4.7)	31 (3.7)	0 (0.0)
Aortic valve stenosis	44 (2.5)	<5 (†)	69 (2.2)	10 (1.2)	0 (0.0)
Atrial septal defect	423 (23.7)	75 (33.2)	833 (26.8)	158 (19.0)	5 (20.6)
Atrioventricular septal defect (endocardial cushion defect)	87 (4.9)	16 (7.1)	184 (5.9)	34 (4.1)	<5 (†)
Biliary atresia	9 (0.5)	<5 (†)	20 (0.6)	11 (1.3)	0 (0.0)
Bladder exstrophy	<5 (†)	0 (0.0)	5 (0.2)	<5 (†)	0 (0.0)
Choanal atresia	15 (0.8)	<5 (†)	19 (0.6)	<5 (†)	0 (0.0)
Cleft lip alone (without cleft palate)	66 (3.7)	7 (3.1)	91 (2.9)	26 (3.1)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

California

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	102 (5.7)	9 (4.0)	225 (7.2)	43 (5.2)	<5 (†)
Cleft palate alone (without cleft lip)	95 (5.3)	<5 (†)	144 (4.6)	44 (5.3)	0 (0.0)
Cloacal exstrophy	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Coarctation of aorta	95 (5.3)	17 (7.5)	148 (4.8)	18 (2.2)	0 (0.0)
Common truncus (truncus arteriosus or TA)	9 (0.5)	<5 (†)	13 (0.4)	5 (0.6)	0 (0.0)
Congenital cataract	25 (1.4)	5 (2.2)	52 (1.7)	9 (1.1)	0 (0.0)
Congenital posterior urethral valves	21 (2.3)	<5 (†)	32 (2.0)	5 (1.2)	0 (0.0)
Craniosynostosis	132 (7.4)	<5 (†)	168 (5.4)	22 (2.6)	0 (0.0)
Deletion 22q11.2	21 (1.2)	<5 (†)	46 (1.5)	9 (1.1)	0 (0.0)
Dextro-Transposition of great arteries (d-TGA)	42 (2.4)	<5 (†)	61 (2.0)	22 (2.6)	0 (0.0)

Notes

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- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

California

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Diaphragmatic hernia	42 (2.4)	<5 (†)	91 (2.9)	15 (1.8)	<5 (†)
Double outlet right ventricle (DORV)	39 (2.2)	7 (3.1)	88 (2.8)	12 (1.4)	0 (0.0)
Ebstein anomaly	21 (1.2)	<5 (†)	37 (1.2)	7 (0.8)	0 (0.0)
Encephalocele	7 (0.4)	0 (0.0)	33 (1.1)	<5 (†)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	35 (2.0)	8 (3.5)	56 (1.8)	11 (1.3)	0 (0.0)
Gastroschisis	45 (2.5)	9 (4.0)	124 (4.0)	16 (1.9)	0 (0.0)
Holoprosencephaly	<5 (†)	<5 (†)	15 (0.5)	0 (0.0)	0 (0.0)
Hypoplastic left heart syndrome	28 (1.6)	10 (4.4)	67 (2.2)	9 (1.1)	0 (0.0)
Hypospadias	641 (70.0)	57 (49.6)	549 (34.8)	193 (45.0)	7 (56.1)
Interrupted aortic arch (IAA)	14 (0.8)	0 (0.0)	20 (0.6)	<5 (†)	0 (0.0)
Limb deficiencies (reduction defects)	49 (2.7)	11 (4.9)	109 (3.5)	11 (1.3)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

California

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Omphalocele	26 (1.5)	7 (3.1)	51 (1.6)	11 (1.3)	<5 (†)
Pulmonary valve atresia	25 (1.4)	<5 (†)	44 (1.4)	9 (1.1)	0 (0.0)
Rectal and large intestinal atresia / stenosis	31 (1.7)	5 (2.2)	64 (2.1)	12 (1.4)	<5 (†)
Renal agenesis / hypoplasia	99 (5.5)	7 (3.1)	176 (5.7)	20 (2.4)	<5 (†)
Single ventricle	14 (0.8)	<5 (†)	33 (1.1)	<5 (†)	0 (0.0)
Small intestinal atresia / stenosis	53 (3.0)	15 (6.6)	116 (3.7)	20 (2.4)	0 (0.0)
Spina bifida without anencephaly	30 (1.7)	8 (3.5)	131 (4.2)	17 (2.0)	<5 (†)
Tetralogy of Fallot (TOF)	69 (3.9)	11 (4.9)	121 (3.9)	26 (3.1)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	20 (1.1)	<5 (†)	56 (1.8)	12 (1.4)	0 (0.0)

Notes

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- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

California

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tricuspid valve atresia	<5 (†)	<5 (†)	23 (0.7)	<5 (†)	0 (0.0)
Trisomy 13	13 (0.7)	6 (2.7)	23 (0.7)	<5 (†)	0 (0.0)
Trisomy 18	20 (1.1)	<5 (†)	54 (1.7)	15 (1.8)	0 (0.0)
Trisomy 21 (Down syndrome)	215 (12.0)	28 (12.4)	563 (18.1)	62 (7.5)	6 (24.7)
Turner syndrome	14 (1.6)	0 (0.0)	41 (2.7)	8 (2.0)	0 (0.0)
Ventricular septal defect	711 (39.8)	92 (40.7)	1631 (52.5)	228 (27.4)	17 (70.1)
Total live births	178425	22616	310569	83109	2426
Male Live Births	91520	11501	157742	42917	1247
Female Live Births	86904	11114	152822	40192	1179

Notes

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- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

California Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	213 (4.4)	5 (0.3)	219 (3.5)
Trisomy 13	40 (0.8)	38 (2.6)	79 (1.2)
Trisomy 18	62 (1.3)	101 (7.0)	165 (2.6)
Trisomy 21 (Down syndrome)	420 (8.6)	646 (45.0)	1069 (16.9)
Total live births	489374	143517	632916

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

California Notes on Specific Birth Defects

Defect	Site Comment
Ventricular septal defect	Data for these conditions include cases with congestive heart failure, confirmation by catheterization or surgery, or, beginning in 2018, confirmed by echocardiogram when the case was six weeks of age and the case had a minimum gestational age of 37 weeks.
Universal comment	This submission covers all 10 counties in CBDMP's catchment area. Therefore, case counts and live birth counts are higher compared to prior submissions. Furthermore, denominator files were adjusted slightly. Therefore, prevalence from prior submissions may differ from this submission.

Metropolitan Atlanta Congenital Defects Program

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	5 (1.2)	7 (1.0)	<5 (†)	<5 (†)	0 (0.0)
Anophthalmia / microphthalmia	5 (1.2)	16 (2.3)	<5 (†)	0 (0.0)	0 (0.0)
Anotia / microtia	8 (1.8)	11 (1.6)	17 (5.2)	<5 (†)	0 (0.0)
Aortic valve stenosis	9 (2.1)	13 (1.9)	<5 (†)	<5 (†)	<5 (†)
Atrial septal defect	116 (26.8)	257 (36.7)	113 (34.6)	37 (23.9)	0 (0.0)
Atrioventricular septal defect (endocardial cushion defect)	18 (4.2)	59 (8.4)	20 (6.1)	5 (3.2)	0 (0.0)
Biliary atresia	<5 (†)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Bladder exstrophy	<5 (†)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Choanal atresia	<5 (†)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Cleft lip alone (without cleft palate)	16 (3.7)	11 (1.6)	7 (2.1)	8 (5.2)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Metropolitan Atlanta Congenital Defects Program

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	15 (3.5)	28 (4.0)	23 (7.0)	7 (4.5)	<5 (†)
Cleft palate alone (without cleft lip)	25 (5.8)	32 (4.6)	18 (5.5)	17 (11.0)	0 (0.0)
Cloacal exstrophy	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	67 (15.5)	109 (15.5)	54 (16.5)	13 (8.4)	0 (0.0)
Coarctation of aorta	19 (4.4)	39 (5.6)	12 (3.7)	6 (3.9)	0 (0.0)
Common truncus (truncus arteriosus or TA)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Congenital cataract	13 (3.0)	26 (3.7)	10 (3.1)	<5 (†)	0 (0.0)
Congenital posterior urethral valves	<5 (†)	19 (5.4)	<5 (†)	5 (6.3)	0 (0.0)
Craniosynostosis	54 (12.5)	41 (5.8)	22 (6.7)	10 (6.5)	0 (0.0)
Deletion 22q11.2	6 (1.4)	20 (2.9)	<5 (†)	<5 (†)	<5 (†)
Dextro-Transposition of	8 (1.8)	24 (3.4)	7 (2.1)	<5 (†)	0 (0.0)

Notes

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- 3- Data for total live births include unknown infant sex.

General comments

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*- Data for totals include unknown/other race

Metropolitan Atlanta Congenital Defects Program

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	7 (1.6)	13 (1.9)	12 (3.7)	<5 (†)	<5 (†)
Double outlet right ventricle (DORV)	6 (1.4)	21 (3.0)	11 (3.4)	<5 (†)	0 (0.0)
Ebstein anomaly	<5 (†)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Encephalocele	<5 (†)	11 (1.6)	<5 (†)	<5 (†)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	14 (3.2)	20 (2.9)	9 (2.8)	<5 (†)	0 (0.0)
Gastroschisis	6 (1.4)	14 (2.0)	13 (4.0)	<5 (†)	0 (0.0)
Holoprosencephaly	0 (0.0)	17 (2.4)	<5 (†)	<5 (†)	0 (0.0)
Hypoplastic left heart syndrome	11 (2.5)	19 (2.7)	<5 (†)	<5 (†)	0 (0.0)
Hypospadias	239 (107.6)	339 (95.5)	71 (43.0)	54 (68.3)	<5 (†)
Interrupted aortic arch (IAA)	<5 (†)	9 (1.3)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

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- 3- Data for total live births include unknown infant sex.

General comments

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- *- Data for totals include unknown/other race

Metropolitan Atlanta Congenital Defects Program

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	20 (4.6)	44 (6.3)	13 (4.0)	<5 (†)	0 (0.0)
Omphalocele	8 (1.8)	24 (3.4)	<5 (†)	<5 (†)	0 (0.0)
Pulmonary valve atresia	11 (2.5)	26 (3.7)	9 (2.8)	<5 (†)	0 (0.0)
Pulmonary valve atresia and stenosis	41 (9.5)	95 (13.5)	31 (9.5)	8 (5.2)	0 (0.0)
Rectal and large intestinal atresia / stenosis	19 (4.4)	29 (4.1)	16 (4.9)	10 (6.5)	0 (0.0)
Renal agenesis / hypoplasia	37 (8.6)	37 (5.3)	13 (4.0)	10 (6.5)	0 (0.0)
Single ventricle	<5 (†)	10 (1.4)	7 (2.1)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	10 (2.3)	28 (4.0)	13 (4.0)	<5 (†)	0 (0.0)
Spina bifida without anencephaly	12 (2.8)	15 (2.1)	16 (4.9)	0 (0.0)	0 (0.0)

Notes

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- 3- Data for total live births include unknown infant sex.

General comments

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- *- Data for totals include unknown/other race

Metropolitan Atlanta Congenital Defects Program

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	34 (7.9)	59 (8.4)	20 (6.1)	12 (7.8)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	<5 (†)	8 (1.1)	7 (2.1)	0 (0.0)	0 (0.0)
Transposition of the great arteries (TGA)	9 (2.1)	27 (3.9)	9 (2.8)	<5 (†)	0 (0.0)
Tricuspid valve atresia	<5 (†)	6 (0.9)	<5 (†)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	<5 (†)	16 (2.3)	5 (1.5)	0 (0.0)	0 (0.0)
Trisomy 13	5 (1.2)	17 (2.4)	<5 (†)	<5 (†)	0 (0.0)
Trisomy 18	<5 (†)	25 (3.6)	9 (2.8)	<5 (†)	0 (0.0)
Trisomy 21 (Down syndrome)	49 (11.3)	93 (13.3)	68 (20.8)	5 (3.2)	0 (0.0)
Turner syndrome	7 (3.3)	8 (2.3)	<5 (†)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Metropolitan Atlanta Congenital Defects Program

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	370 (85.5)	380 (54.2)	321 (98.3)	101 (65.4)	<5 (†)
Total live births	43274	70122	32652	15449	111
Male Live Births	22205	35493	16517	7905	51
Female Live Births	21069	34628	16135	7544	60

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Metropolitan Atlanta Congenital Defects Program

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	34 (2.7)	<5 (†)	36 (2.2)
Trisomy 13	16 (1.3)	9 (2.3)	29 (1.7)
Trisomy 18	15 (1.2)	27 (6.8)	46 (2.8)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Metropolitan Atlanta Congenital Defects Program Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	94 (7.4)	121 (30.3)	222 (13.3)
Total live births	127235	39995	167250
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Metropolitan Atlanta Congenital Defects Program Notes on Specific Birth Defects

Defect	Site Comment
Universal comment	Live births include gestational ages greater than or equal to 20 weeks.
Universal comment	Stillbirths include gestational ages greater than or equal to 20 weeks.
Universal comment	Elective terminations include all gestational ages.
Universal comment	Cases for which the date of delivery was unknown are included in the year of their last known prenatal test.

Colorado

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	6 (0.3)	<5 (†)	6 (0.7)	<5 (†)	0 (0.0)
Anophthalmia / microphthalmia	21 (1.1)	<5 (†)	12 (1.3)	<5 (†)	<5 (†)
Anotia / microtia	52 (2.8)	<5 (†)	44 (4.8)	7 (5.3)	0 (0.0)
Aortic valve stenosis	51 (2.8)	<5 (†)	21 (2.3)	<5 (†)	<5 (†)
Atrial septal defect	3176 (172.0)	284 (183.4)	1581 (172.9)	195 (146.9)	39 (217.4)
Atrioventricular septal defect (endocardial cushion defect)	40 (2.2)	6 (3.9)	26 (2.8)	<5 (†)	0 (0.0)
Biliary atresia	30 (1.6)	7 (4.5)	26 (2.8)	<5 (†)	0 (0.0)
Bladder exstrophy	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Choanal atresia	45 (2.4)	<5 (†)	18 (2.0)	<5 (†)	<5 (†)
Cleft lip alone (without cleft palate)	50 (2.7)	<5 (†)	21 (2.3)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Colorado

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	71 (3.8)	<5 (†)	44 (4.8)	<5 (†)	0 (0.0)
Cleft palate alone (without cleft lip)	103 (5.6)	9 (5.8)	47 (5.1)	14 (10.5)	<5 (†)
Cloacal exstrophy	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Clubfoot	402 (21.8)	28 (18.1)	173 (18.9)	30 (22.6)	<5 (†)
Coarctation of aorta	94 (5.1)	9 (5.8)	45 (4.9)	6 (4.5)	<5 (†)
Common truncus (truncus arteriosus or TA)	10 (0.5)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Congenital cataract	41 (2.2)	<5 (†)	18 (2.0)	<5 (†)	0 (0.0)
Congenital posterior urethral valves	18 (1.9)	6 (7.7)	9 (1.9)	<5 (†)	0 (0.0)
Craniosynostosis	270 (14.6)	17 (11.0)	144 (15.7)	9 (6.8)	<5 (†)
Deletion 22q11.2	22 (1.2)	<5 (†)	16 (1.7)	0 (0.0)	<5 (†)
Dextro-Transposition of	24 (1.3)	0 (0.0)	9 (1.0)	0 (0.0)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Colorado

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	46 (2.5)	<5 (†)	22 (2.4)	<5 (†)	<5 (†)
Double outlet right ventricle (DORV)	16 (0.9)	<5 (†)	13 (1.4)	<5 (†)	<5 (†)
Ebstein anomaly	8 (0.4)	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)
Encephalocele	9 (0.5)	<5 (†)	7 (0.8)	<5 (†)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	80 (4.3)	<5 (†)	21 (2.3)	<5 (†)	0 (0.0)
Gastroschisis	27 (1.5)	<5 (†)	24 (2.6)	<5 (†)	<5 (†)
Holoprosencephaly	<5 (†)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Hypoplastic left heart syndrome	36 (1.9)	<5 (†)	13 (1.4)	<5 (†)	<5 (†)
Hypospadias	1208 (127.7)	76 (97.8)	296 (63.3)	61 (89.5)	<5 (†)
Interrupted aortic arch (IAA)	16 (0.9)	<5 (†)	15 (1.6)	<5 (†)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Colorado

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	41 (2.2)	<5 (†)	18 (2.0)	<5 (†)	0 (0.0)
Omphalocele	16 (0.9)	<5 (†)	5 (0.5)	0 (0.0)	0 (0.0)
Pulmonary valve atresia	69 (3.7)	9 (5.8)	47 (5.1)	6 (4.5)	<5 (†)
Pulmonary valve atresia and stenosis	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Rectal and large intestinal atresia / stenosis	88 (4.8)	7 (4.5)	47 (5.1)	7 (5.3)	0 (0.0)
Renal agenesis / hypoplasia	118 (6.4)	7 (4.5)	53 (5.8)	10 (7.5)	0 (0.0)
Single ventricle	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	68 (3.7)	7 (4.5)	40 (4.4)	0 (0.0)	0 (0.0)
Spina bifida without anencephaly	26 (1.4)	<5 (†)	14 (1.5)	<5 (†)	<5 (†)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Colorado

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	48 (2.6)	<5 (†)	22 (2.4)	<5 (†)	<5 (†)
Total anomalous pulmonary venous connection (TAPVC)	5 (0.3)	<5 (†)	9 (1.0)	0 (0.0)	0 (0.0)
Transposition of the great arteries (TGA)	27 (1.5)	<5 (†)	11 (1.2)	0 (0.0)	0 (0.0)
Tricuspid valve atresia	6 (0.3)	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)
Tricuspid valve atresia and stenosis	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Trisomy 13	8 (0.4)	0 (0.0)	6 (0.7)	<5 (†)	0 (0.0)
Trisomy 18	14 (0.8)	0 (0.0)	7 (0.8)	0 (0.0)	0 (0.0)
Trisomy 21 (Down syndrome)	168 (9.1)	24 (15.5)	116 (12.7)	5 (3.8)	0 (0.0)
Turner syndrome	45 (5.0)	<5 (†)	16 (3.6)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Colorado

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White,	Black,	Hispanic,	Asian or	American
	Non-Hispanic	Non-Hispanic	Non-Hispanic	Pacific Islander, Non-Hispanic	Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	1015 (55.0)	85 (54.9)	536 (58.6)	60 (45.2)	22 (122.6)
Total live births	184627	15488	91434	13276	1794
Male Live Births	94609	7773	46745	6816	903
Female Live Births	90018	7715	44689	6460	891

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Colorado

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	59 (2.5)	<5 (†)	60 (1.9)
Trisomy 13	13 (0.6)	9 (1.2)	35 (1.1)
Trisomy 18	10 (0.4)	25 (3.2)	67 (2.1)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Colorado Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)			
Maternal Age			
Defect			Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	164 (7.0)	173 (22.4)	425 (13.6)
Total live births	235606	77068	312733
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Colorado Notes on Specific Birth Defects	
Defect	Site Comment
Universal comment	Data for all conditions may differ from previous reports due to a shift to a passive surveillance system beginning with 2021 data

Delaware

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	<11 (†)	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)
Anophthalmia / microphthalmia	<11 (†)	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)
Anotia / microtia	<11 (†)	<11 (†)	<11 (†)	<11 (†)	0 (0.0)
Aortic valve stenosis	<11 (†)	<11 (†)	<11 (†)	<11 (†)	0 (0.0)
Atrial septal defect	82 (33.2)	54 (37.5)	32 (35.0)	13 (40.8)	<11 (†)
Atrioventricular septal defect (endocardial cushion defect)	11 (4.5)	<11 (†)	11 (12.0)	<11 (†)	<11 (†)
Biliary atresia	<11 (†)	<11 (†)	<11 (†)	<11 (†)	0 (0.0)
Bladder exstrophy	<11 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Choanal atresia	<11 (†)	0 (0.0)	<11 (†)	0 (0.0)	0 (0.0)
Cleft lip alone (without cleft palate)	<11 (†)	0 (0.0)	<11 (†)	<11 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <11 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Delaware

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	18 (7.3)	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)
Cleft palate alone (without cleft lip)	25 (10.1)	<11 (†)	<11 (†)	<11 (†)	0 (0.0)
Cloacal exstrophy	<11 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	51 (20.7)	21 (14.6)	<11 (†)	<11 (†)	0 (0.0)
Coarctation of aorta	11 (4.5)	<11 (†)	<11 (†)	<11 (†)	0 (0.0)
Common truncus (truncus arteriosus or TA)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Congenital cataract	<11 (†)	<11 (†)	<11 (†)	<11 (†)	0 (0.0)
Congenital posterior urethral valves	<11 (†)	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)
Craniosynostosis	23 (9.3)	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)
Deletion 22q11.2	<11 (†)	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)
Dextro-Transposition of	<11 (†)	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <11 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Delaware

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	<11 (†)	<11 (†)	<11 (†)	<11 (†)	0 (0.0)
Double outlet right ventricle (DORV)	<11 (†)	<11 (†)	<11 (†)	<11 (†)	0 (0.0)
Ebstein anomaly	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Encephalocele	<11 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	<11 (†)	<11 (†)	<11 (†)	<11 (†)	0 (0.0)
Gastroschisis	<11 (†)	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)
Holoprosencephaly	<11 (†)	0 (0.0)	<11 (†)	0 (0.0)	0 (0.0)
Hypoplastic left heart syndrome	<11 (†)	<11 (†)	<11 (†)	<11 (†)	0 (0.0)
Hypospadias	95 (74.7)	79 (107.6)	22 (47.6)	<11 (†)	<11 (†)
Interrupted aortic arch (IAA)	0 (0.0)	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <11 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Delaware

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	20 (8.1)	11 (7.6)	11 (12.0)	<11 (†)	0 (0.0)
Omphalocele	<11 (†)	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)
Pulmonary valve atresia	<11 (†)	0 (0.0)	<11 (†)	0 (0.0)	0 (0.0)
Pulmonary valve atresia and stenosis	33 (13.4)	22 (15.3)	<11 (†)	<11 (†)	0 (0.0)
Rectal and large intestinal atresia / stenosis	11 (4.5)	<11 (†)	<11 (†)	0 (0.0)	<11 (†)
Renal agenesis / hypoplasia	18 (7.3)	<11 (†)	<11 (†)	<11 (†)	0 (0.0)
Single ventricle	<11 (†)	0 (0.0)	<11 (†)	<11 (†)	0 (0.0)
Small intestinal atresia / stenosis	<11 (†)	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)
Spina bifida without anencephaly	<11 (†)	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 ma
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <11 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Delaware

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	13 (5.3)	<11 (†)	<11 (†)	<11 (†)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	<11 (†)	<11 (†)	<11 (†)	<11 (†)	0 (0.0)
Transposition of the great arteries (TGA)	<11 (†)	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)
Tricuspid valve atresia	0 (0.0)	<11 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Trisomy 13	<11 (†)	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)
Trisomy 18	<11 (†)	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)
Trisomy 21 (Down syndrome)	30 (12.1)	18 (12.5)	22 (24.0)	<11 (†)	<11 (†)
Turner syndrome	<11 (†)	0 (0.0)	<11 (†)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <11 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Delaware

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White,	Black,	Hispanic,	Asian or	American
	Non-Hispanic	Non-Hispanic	Non-Hispanic	Pacific Islander, Non-Hispanic	Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	180 (72.9)	95 (66.0)	63 (68.8)	13 (40.8)	<11 (†)
Total live births	24696	14385	9153	3188	235
Male Live Births	12719	7343	4623	1675	115
Female Live Births	11977	7042	4530	1513	120

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <11 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Delaware

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	<11 (†)	<11 (†)	11 (2.1)
Trisomy 13	<11 (†)	<11 (†)	<11 (†)
Trisomy 18	<11 (†)	<11 (†)	<11 (†)

Notes

†- Counts <11 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Delaware
Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	30 (7.1)	48 (48.5)	78 (15.0)
Total live births	42169	9890	52059
Notes †- Counts <11 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Department of Defense

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	17 (0.5)	<5 (†)	13 (1.7)	<5 (†)	0 (0.0)
Anophthalmia / microphthalmia	47 (1.5)	10 (1.3)	15 (1.9)	<5 (†)	0 (0.0)
Anotia / microtia	100 (3.2)	16 (2.1)	29 (3.7)	7 (2.5)	<5 (†)
Aortic valve stenosis	119 (3.8)	9 (1.2)	25 (3.2)	<5 (†)	<5 (†)
Atrial septal defect	5726 (182.3)	1441 (191.9)	1326 (169.2)	464 (166.4)	120 (172.7)
Atrioventricular septal defect (endocardial cushion defect)	213 (6.8)	42 (5.6)	46 (5.9)	22 (7.9)	<5 (†)
Biliary atresia	87 (2.8)	37 (4.9)	31 (4.0)	16 (5.7)	<5 (†)
Bladder exstrophy	<5 (†)	<5 (†)	<5 (†)	<5 (†)	<5 (†)
Choanal atresia	89 (2.8)	16 (2.1)	17 (2.2)	5 (1.8)	<5 (†)
Cleft lip alone (without cleft palate)	209 (6.7)	17 (2.3)	35 (4.5)	23 (8.2)	7 (10.1)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence of posterior urethral valve i births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Department of Defense

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	214 (6.8)	21 (2.8)	49 (6.3)	26 (9.3)	6 (8.6)
Cleft palate alone (without cleft lip)	352 (11.2)	53 (7.1)	73 (9.3)	34 (12.2)	10 (14.4)
Cloacal exstrophy	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	907 (28.9)	186 (24.8)	210 (26.8)	58 (20.8)	15 (21.6)
Coarctation of aorta	288 (9.2)	69 (9.2)	61 (7.8)	19 (6.8)	10 (14.4)
Congenital cataract	103 (3.3)	28 (3.7)	27 (3.4)	5 (1.8)	<5 (†)
Congenital posterior urethral valves	46 (2.8)	19 (5.0)	14 (3.5)	<5 (†)	0 (0.0)
Craniosynostosis	1106 (35.2)	169 (22.5)	265 (33.8)	94 (33.7)	22 (31.7)
Deletion 22q11.2	42 (1.3)	6 (0.8)	8 (1.0)	<5 (†)	0 (0.0)
Diaphragmatic hernia	114 (3.6)	31 (4.1)	26 (3.3)	13 (4.7)	5 (7.2)
Double outlet right ventricle (DORV)	91 (2.9)	30 (4.0)	24 (3.1)	14 (5.0)	<5 (†)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence of posterior urethral valve i births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Department of Defense

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Ebstein anomaly	35 (1.1)	5 (0.7)	9 (1.1)	<5 (†)	<5 (†)
Encephalocele	34 (1.1)	13 (1.7)	9 (1.1)	<5 (†)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	94 (3.0)	19 (2.5)	22 (2.8)	5 (1.8)	<5 (†)
Gastroschisis	125 (4.0)	32 (4.3)	45 (5.7)	8 (2.9)	5 (7.2)
Holoprosencephaly	27 (0.9)	9 (1.2)	5 (0.6)	<5 (†)	0 (0.0)
Hypoplastic left heart syndrome	131 (4.2)	26 (3.5)	31 (4.0)	9 (3.2)	<5 (†)
Hypospadias	1997 (123.7)	416 (108.9)	337 (84.4)	128 (88.8)	28 (79.0)
Interrupted aortic arch (IAA)	38 (1.2)	<5 (†)	10 (1.3)	<5 (†)	<5 (†)
Limb deficiencies (reduction defects)	167 (5.3)	45 (6.0)	37 (4.7)	8 (2.9)	0 (0.0)
Omphalocele	58 (1.8)	18 (2.4)	14 (1.8)	7 (2.5)	0 (0.0)
Rectal and large intestinal atresia /	152 (4.8)	43 (5.7)	49 (6.3)	18 (6.5)	6 (8.6)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence of posterior urethral valve i births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Department of Defense

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
stenosis					
Renal agenesis / hypoplasia	264 (8.4)	68 (9.1)	59 (7.5)	19 (6.8)	8 (11.5)
Single ventricle	86 (2.7)	11 (1.5)	21 (2.7)	6 (2.2)	<5 (†)
Small intestinal atresia / stenosis	135 (4.3)	40 (5.3)	35 (4.5)	14 (5.0)	<5 (†)
Spina bifida without anencephaly	122 (3.9)	16 (2.1)	36 (4.6)	<5 (†)	<5 (†)
Total anomalous pulmonary venous connection (TAPVC)	54 (1.7)	6 (0.8)	14 (1.8)	0 (0.0)	<5 (†)
Trisomy 13	32 (1.0)	16 (2.1)	6 (0.8)	6 (2.2)	0 (0.0)
Trisomy 18	59 (1.9)	17 (2.3)	12 (1.5)	8 (2.9)	0 (0.0)
Trisomy 21 (Down syndrome)	442 (14.1)	101 (13.4)	109 (13.9)	38 (13.6)	11 (15.8)
Turner syndrome	63 (4.1)	9 (2.4)	13 (3.4)	6 (4.5)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence of posterior urethral valve i births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Department of Defense

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White,	Black,	Hispanic,	Asian or	American
	Non-Hispanic	Non-Hispanic	Non-Hispanic	Pacific Islander, Non-Hispanic	Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	2579 (82.1)	530 (70.6)	613 (78.2)	190 (68.1)	65 (93.5)
Total live births	314173	75103	78348	27882	6949
Male Live Births	161440	38216	39922	14418	3545
Female Live Births	152733	36887	38426	13464	3404

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence of posterior urethral valve i births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Department of Defense

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35	35 of more	
	years	years	
Gastroschisis	193 (4.5)	5 (0.7)	221 (4.2)
Trisomy 13	34 (0.8)	22 (3.1)	60 (1.1)
Trisomy 18	61 (1.4)	34 (4.8)	98 (1.9)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Department of Defense
Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	412 (9.5)	276 (38.8)	718 (13.7)
Total live births	431623	71097	523081
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Department of Defense
Notes on Specific Birth Defects

Defect	Site Comment
Anencephaly	The DoD Birth and Infant Health Research (BIHR) program only captures livebirths
Spina bifida without anencephaly	The BIHR program only captures livebirths
Ventricular septal defect	All ICD-10-CM coded cases that meet the BIHR program case criteria are included. The BIHR program relies on ICD-10-CM codes and cannot distinguish CDC/BPA codes 745.487 or 745.498
Atrial septal defect	The BIHR program relies on ICD-10-CM codes and cannot differentiate PFO
Atrioventricular septal defect (endocardial cushion defect)	The BIHR program relies on ICD-10-CM codes and cannot distinguish CDC/BPA code 745.487

Department of Defense Notes on Specific Birth Defects

Defect	Site Comment
Tricuspid valve atresia and stenosis	The BIHR program relies on ICD-10-CM codes. Cases with tricuspid stenosis or hypoplasia are included
Omphalocele	Criteria for an omphalocele case: One diagnosis from inpatient records during the first month of life
Trisomy 13	The BIHR program only captures livebirths
Trisomy 21 (Down syndrome)	The BIHR program only captures livebirths
Trisomy 18	The BIHR program only captures livebirths

Florida

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	37 (0.8)	20 (0.9)	28 (0.8)	<5 (†)	0 (0.0)
Anophthalmia / microphthalmia	36 (0.8)	32 (1.4)	39 (1.1)	<5 (†)	0 (0.0)
Anotia / microtia	56 (1.3)	23 (1.0)	76 (2.2)	<5 (†)	0 (0.0)
Aortic valve stenosis	64 (1.4)	16 (0.7)	28 (0.8)	<5 (†)	<5 (†)
Atrial septal defect	4590 (103.7)	3210 (142.0)	4306 (125.9)	343 (105.4)	14 (128.4)
Atrioventricular septal defect (endocardial cushion defect)	203 (4.6)	147 (6.5)	112 (3.3)	10 (3.1)	<5 (†)
Biliary atresia	83 (1.9)	124 (5.5)	74 (2.2)	11 (3.4)	0 (0.0)
Bladder exstrophy	14 (0.3)	5 (0.2)	<5 (†)	0 (0.0)	0 (0.0)
Choanal atresia	73 (1.6)	38 (1.7)	38 (1.1)	6 (1.8)	0 (0.0)
Cleft lip alone (without cleft palate)	158 (3.6)	33 (1.5)	62 (1.8)	12 (3.7)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Florida

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	244 (5.5)	85 (3.8)	163 (4.8)	14 (4.3)	<5 (†)
Cleft palate alone (without cleft lip)	273 (6.2)	78 (3.5)	145 (4.2)	18 (5.5)	0 (0.0)
Cloacal exstrophy	5 (0.1)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Clubfoot	1082 (24.4)	479 (21.2)	747 (21.8)	65 (20.0)	<5 (†)
Coarctation of aorta	282 (6.4)	142 (6.3)	200 (5.8)	19 (5.8)	0 (0.0)
Common truncus (truncus arteriosus or TA)	14 (0.3)	8 (0.4)	12 (0.4)	<5 (†)	0 (0.0)
Congenital cataract	39 (0.9)	40 (1.8)	43 (1.3)	0 (0.0)	0 (0.0)
Congenital posterior urethral valves	53 (2.3)	50 (4.4)	28 (1.6)	5 (3.0)	0 (0.0)
Craniosynostosis	243 (5.5)	66 (2.9)	149 (4.4)	13 (4.0)	<5 (†)
Deletion 22q11.2	13 (0.3)	13 (0.6)	16 (0.5)	<5 (†)	0 (0.0)
Dextro-Transposition of	122 (2.8)	60 (2.7)	80 (2.3)	10 (3.1)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Florida

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	166 (3.8)	91 (4.0)	108 (3.2)	16 (4.9)	0 (0.0)
Double outlet right ventricle (DORV)	90 (2.0)	83 (3.7)	69 (2.0)	<5 (†)	0 (0.0)
Ebstein anomaly	27 (0.6)	13 (0.6)	27 (0.8)	<5 (†)	0 (0.0)
Encephalocele	46 (1.0)	22 (1.0)	22 (0.6)	<5 (†)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	119 (2.7)	48 (2.1)	79 (2.3)	7 (2.2)	<5 (†)
Gastroschisis	168 (3.8)	45 (2.0)	115 (3.4)	<5 (†)	0 (0.0)
Holoprosencephaly	37 (0.8)	27 (1.2)	24 (0.7)	<5 (†)	0 (0.0)
Hypoplastic left heart syndrome	130 (2.9)	91 (4.0)	89 (2.6)	5 (1.5)	0 (0.0)
Hypospadias	2078 (91.6)	770 (67.1)	957 (54.6)	105 (62.8)	<5 (†)
Interrupted aortic arch (IAA)	33 (0.7)	15 (0.7)	18 (0.5)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Florida

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	114 (2.6)	88 (3.9)	89 (2.6)	<5 (†)	0 (0.0)
Omphalocele	81 (1.8)	76 (3.4)	50 (1.5)	0 (0.0)	0 (0.0)
Pulmonary valve atresia	22 (0.5)	9 (0.4)	21 (0.6)	<5 (†)	0 (0.0)
Pulmonary valve atresia and stenosis	282 (6.4)	253 (11.2)	381 (11.1)	13 (4.0)	0 (0.0)
Rectal and large intestinal atresia / stenosis	155 (3.5)	88 (3.9)	136 (4.0)	13 (4.0)	<5 (†)
Renal agenesis / hypoplasia	289 (6.5)	159 (7.0)	204 (6.0)	17 (5.2)	0 (0.0)
Single ventricle	59 (1.3)	33 (1.5)	35 (1.0)	<5 (†)	0 (0.0)
Small intestinal atresia / stenosis	157 (3.5)	97 (4.3)	111 (3.2)	<5 (†)	0 (0.0)
Spina bifida without anencephaly	134 (3.0)	41 (1.8)	86 (2.5)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 ma
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Florida

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	216 (4.9)	157 (6.9)	134 (3.9)	13 (4.0)	<5 (†)
Total anomalous pulmonary venous connection (TAPVC)	31 (0.7)	20 (0.9)	30 (0.9)	0 (0.0)	0 (0.0)
Transposition of the great arteries (TGA)	131 (3.0)	60 (2.7)	82 (2.4)	10 (3.1)	0 (0.0)
Tricuspid valve atresia	40 (0.9)	18 (0.8)	34 (1.0)	<5 (†)	0 (0.0)
Tricuspid valve atresia and stenosis	40 (0.9)	18 (0.8)	34 (1.0)	<5 (†)	0 (0.0)
Trisomy 13	36 (0.8)	37 (1.6)	21 (0.6)	5 (1.5)	0 (0.0)
Trisomy 18	65 (1.5)	78 (3.5)	53 (1.5)	<5 (†)	<5 (†)
Trisomy 21 (Down syndrome)	528 (11.9)	359 (15.9)	429 (12.5)	24 (7.4)	<5 (†)
Turner syndrome	78 (3.6)	24 (2.2)	41 (2.5)	5 (3.2)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Florida

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	2802 (63.3)	1492 (66.0)	2242 (65.6)	178 (54.7)	11 (100.9)
Total live births	442616	226014	341953	32538	1090
Male Live Births	226877	114764	175184	16710	541
Female Live Births	215733	111247	166762	15826	549

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Florida

Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	321 (3.7)	16 (0.7)	337 (3.1)
Trisomy 13	47 (0.5)	59 (2.7)	106 (1.0)
Trisomy 18	86 (1.0)	125 (5.6)	212 (2.0)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Florida
Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	607 (7.0)	791 (35.8)	1398 (12.9)
Total live births	863971	221247	1085278
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Florida
Notes on Specific Birth Defects

Defect	Site Comment
Tetralogy of Fallot (TOF)	Pulmonary atresia with a ventricular septal defect was included as Tetralogy of Fallot.
Ventricular septal defect	Data for this condition include probable cases.
Atrioventricular septal defect (endocardial cushion defect)	Data for this condition include canal type atrioventricular septal defect.
Pulmonary valve atresia	Cases with Tetralogy of Fallot or ventricular septal defect were excluded.
Tricuspid valve atresia and stenosis	Data for this condition include congenital tricuspid stenosis.
Tricuspid valve atresia	Data for this condition include congenital tricuspid stenosis.

Florida

Notes on Specific Birth Defects

Defect	Site Comment
Gastroschisis	Data for this condition may differ from previous reports due to ICD-9-CM coding system changes.
Omphalocele	Data for this condition may differ from previous reports due to ICD-9-CM coding system changes.
Hypospadias	Hypospadias prevalence per 10,000 male live births.
Turner syndrome	Turner syndrome prevalence per 10,000 female live births. Excludes male phenotype.
Congenital posterior urethral valves	Congenital posterior urethral valve prevalence per 10,000 male live births.
Interrupted aortic arch (IAA)	For interrupted aortic arch (IAA), Florida has decided NEVER to use the Q25.2 and Q25.4 codes due to lack of specificity for IAA.
Universal comment	Total live births includes unknown gender.
Universal comment	Only live birth outcomes are considered. Linkage rates between birth certificates and hospital discharge data, which are used to identify codes indicative of birth defects went down during the 2018-2022 study period, which could result in an artificial decrease in defect rates.

Georgia

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	55 (2.0)	40 (1.9)	26 (2.7)	8 (2.8)	0 (0.0)
Anophthalmia / microphthalmia	20 (0.7)	14 (0.7)	<5 (†)	<5 (†)	0 (0.0)
Anotia / microtia	42 (1.6)	22 (1.0)	60 (6.3)	<5 (†)	0 (0.0)
Aortic valve stenosis	23 (0.9)	13 (0.6)	<5 (†)	<5 (†)	0 (0.0)
Atrial septal defect	1769 (65.5)	1942 (91.1)	380 (40.1)	129 (45.3)	8 (151.8)
Atrioventricular septal defect (endocardial cushion defect)	116 (4.3)	88 (4.1)	32 (3.4)	5 (1.8)	0 (0.0)
Biliary atresia	26 (1.0)	61 (2.9)	7 (0.7)	<5 (†)	0 (0.0)
Bladder exstrophy	6 (0.2)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Choanal atresia	19 (0.7)	9 (0.4)	7 (0.7)	<5 (†)	0 (0.0)
Cleft lip alone (without cleft palate)	113 (4.2)	41 (1.9)	27 (2.8)	9 (3.2)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Georgia

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	301 (11.1)	129 (6.1)	81 (8.5)	19 (6.7)	0 (0.0)
Cleft palate alone (without cleft lip)	223 (8.3)	99 (4.6)	42 (4.4)	24 (8.4)	<5 (†)
Cloacal exstrophy	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	345 (12.8)	246 (11.5)	125 (13.2)	15 (5.3)	<5 (†)
Coarctation of aorta	113 (4.2)	64 (3.0)	33 (3.5)	7 (2.5)	0 (0.0)
Common truncus (truncus arteriosus or TA)	12 (0.4)	16 (0.8)	<5 (†)	<5 (†)	0 (0.0)
Congenital cataract	24 (0.9)	25 (1.2)	10 (1.1)	<5 (†)	0 (0.0)
Congenital posterior urethral valves	21 (1.5)	41 (3.8)	8 (1.7)	5 (3.4)	0 (0.0)
Craniosynostosis	285 (10.6)	112 (5.3)	74 (7.8)	22 (7.7)	0 (0.0)
Deletion 22q11.2	20 (0.7)	28 (1.3)	11 (1.2)	<5 (†)	<5 (†)
Dextro-Transposition of	62 (2.3)	33 (1.5)	16 (1.7)	<5 (†)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Georgia

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	75 (2.8)	64 (3.0)	40 (4.2)	<5 (†)	0 (0.0)
Double outlet right ventricle (DORV)	47 (1.7)	41 (1.9)	11 (1.2)	<5 (†)	0 (0.0)
Ebstein anomaly	12 (0.4)	<5 (†)	<5 (†)	<5 (†)	<5 (†)
Encephalocele	22 (0.8)	27 (1.3)	7 (0.7)	<5 (†)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	48 (1.8)	30 (1.4)	17 (1.8)	<5 (†)	0 (0.0)
Gastroschisis	91 (3.4)	50 (2.3)	23 (2.4)	<5 (†)	0 (0.0)
Holoprosencephaly	27 (1.0)	19 (0.9)	7 (0.7)	0 (0.0)	0 (0.0)
Hypoplastic left heart syndrome	58 (2.1)	62 (2.9)	15 (1.6)	<5 (†)	0 (0.0)
Hypospadias	773 (55.8)	514 (47.5)	90 (18.6)	43 (29.4)	<5 (†)
Interrupted aortic arch (IAA)	<5 (†)	6 (0.3)	0 (0.0)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Georgia

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	131 (4.9)	114 (5.3)	39 (4.1)	5 (1.8)	0 (0.0)
Omphalocele	46 (1.7)	57 (2.7)	17 (1.8)	<5 (†)	0 (0.0)
Pulmonary valve atresia	16 (0.6)	18 (0.8)	9 (0.9)	<5 (†)	0 (0.0)
Pulmonary valve atresia and stenosis	92 (3.4)	111 (5.2)	25 (2.6)	<5 (†)	0 (0.0)
Rectal and large intestinal atresia / stenosis	102 (3.8)	74 (3.5)	42 (4.4)	10 (3.5)	0 (0.0)
Renal agenesis / hypoplasia	151 (5.6)	113 (5.3)	41 (4.3)	8 (2.8)	0 (0.0)
Single ventricle	34 (1.3)	23 (1.1)	18 (1.9)	<5 (†)	0 (0.0)
Small intestinal atresia / stenosis	47 (1.7)	57 (2.7)	16 (1.7)	<5 (†)	0 (0.0)
Spina bifida without anencephaly	101 (3.7)	48 (2.3)	40 (4.2)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Georgia

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	85 (3.1)	109 (5.1)	27 (2.8)	10 (3.5)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	14 (0.5)	14 (0.7)	15 (1.6)	<5 (†)	0 (0.0)
Transposition of the great arteries (TGA)	66 (2.4)	35 (1.6)	18 (1.9)	<5 (†)	0 (0.0)
Tricuspid valve atresia	12 (0.4)	20 (0.9)	5 (0.5)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	12 (0.4)	20 (0.9)	5 (0.5)	0 (0.0)	0 (0.0)
Trisomy 13	35 (1.3)	36 (1.7)	11 (1.2)	<5 (†)	0 (0.0)
Trisomy 18	55 (2.0)	66 (3.1)	18 (1.9)	<5 (†)	0 (0.0)
Trisomy 21 (Down syndrome)	414 (15.3)	309 (14.5)	258 (27.2)	15 (5.3)	0 (0.0)
Turner syndrome	40 (3.0)	28 (2.7)	15 (3.2)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Georgia

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
					American Indian or Alaskan Native, Non-Hispanic
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	
Ventricular septal defect	740 (27.4)	542 (25.4)	229 (24.2)	52 (18.3)	<5 (†)
Total live births	270027	213216	94811	28446	527
Male Live Births	138509	108166	48447	14645	279
Female Live Births	131518	105050	46364	13801	248

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Georgia

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	158 (3.1)	14 (1.3)	172 (2.8)
Trisomy 13	49 (0.9)	38 (3.5)	87 (1.4)
Trisomy 18	72 (1.4)	74 (6.9)	146 (2.3)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Georgia Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	496 (9.6)	514 (47.7)	1010 (16.2)
Total live births	516988	107664	624652
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Georgia Notes on Specific Birth Defects

Defect	Site Comment
Transposition of the great arteries (TGA)	2023 TGA infant sex total check showing an error, can't identify issue
Dextro-Transposition of great arteries (d-TGA)	2023 DTGA infant sex total and live births check showing errors, can't identify issue
Ventricular septal defect	2019 VSD race/ethnicity check showing an error, sum total for 2019 jumps back to 2018 in raw data table, not 2019
Atrial septal defect	2018 ASD race/ethnicity check showing an error, can't identify issue
Biliary atresia	2020 biliary atresia infant sex check showing an error, issue is incorrect cells are used in formula
Trisomy 13	2021 Trisomy 13 maternal age total check showing an error, can't identify issue

Georgia
Notes on Specific Birth Defects

Defect	Site Comment
Universal comment	As described in the survey, BDR data come from numerous types of reporting sources beyond vital records. Cases who do not readily match to SendSS-Newborn (-NB) or otherwise have a birth certificate number were triaged into three separate tiers: (A) delivery hospital is known and matches a facility in Georgia; (B) free-text other than a delivery hospital was reported (e.g., home planned, occurred out of hospital); (C) no delivery hospital was reported. Cases in tier C were determined to have insufficient evidence of Georgia residence at delivery and were excluded. Cases in tier A (Georgia delivery hospital reported) and select cases from tier B (free-text: home planned, other, occurred out of hospital) were manually reviewed to ascertain confirm residence and obtain (1) birth or fetal death certificate number and (2) demographic data. Few cases could not be located in vital records (VR), but had confirmation of Georgia residence through data found in Newborn Screening or Children 1st referrals. Data from VRs were prioritized; where absent, data found in SendSS-NB supplemented demographic data reported in the survey and data call tables.

Hawaii

Birth Defects Counts and Prevalence 2018-2019 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	<5 (†)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Anophthalmia / microphthalmia	<5 (†)	0 (0.0)	0 (0.0)	5 (2.2)	0 (0.0)
Anotia / microtia	<5 (†)	0 (0.0)	0 (0.0)	19 (8.3)	<5 (†)
Aortic valve stenosis	0 (0.0)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Atrial septal defect	7 (13.7)	<5 (†)	0 (0.0)	32 (14.0)	<5 (†)
Atrioventricular septal defect (endocardial cushion defect)	<5 (†)	0 (0.0)	0 (0.0)	13 (5.7)	0 (0.0)
Biliary atresia	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bladder exstrophy	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Choanal atresia	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Cleft lip alone (without cleft palate)	<5 (†)	0 (0.0)	0 (0.0)	12 (5.3)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Hawaii

Birth Defects Counts and Prevalence 2018-2019 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	8 (15.6)	0 (0.0)	0 (0.0)	15 (6.6)	0 (0.0)
Cleft palate alone (without cleft lip)	8 (15.6)	<5 (†)	<5 (†)	10 (4.4)	0 (0.0)
Cloacal exstrophy	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	5 (9.8)	<5 (†)	<5 (†)	28 (12.3)	0 (0.0)
Coarctation of aorta	<5 (†)	0 (0.0)	0 (0.0)	10 (4.4)	<5 (†)
Common truncus (truncus arteriosus or TA)	0 (0.0)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Congenital cataract	0 (0.0)	0 (0.0)	0 (0.0)	5 (2.2)	0 (0.0)
Congenital posterior urethral valves	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Craniosynostosis	<5 (†)	0 (0.0)	0 (0.0)	6 (2.6)	<5 (†)
Deletion 22q11.2	0 (0.0)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Dextro-Transposition of	0 (0.0)	0 (0.0)	0 (0.0)	5 (2.2)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Hawaii

Birth Defects Counts and Prevalence 2018-2019 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	<5 (†)	0 (0.0)	0 (0.0)	10 (4.4)	0 (0.0)
Double outlet right ventricle (DORV)	<5 (†)	0 (0.0)	0 (0.0)	7 (3.1)	<5 (†)
Ebstein anomaly	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Encephalocele	0 (0.0)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	<5 (†)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Gastroschisis	<5 (†)	0 (0.0)	0 (0.0)	9 (3.9)	0 (0.0)
Holoprosencephaly	<5 (†)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Hypoplastic left heart syndrome	0 (0.0)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Hypospadias	21 (81.3)	<5 (†)	0 (0.0)	62 (52.1)	<5 (†)
Interrupted aortic arch (IAA)	0 (0.0)	0 (0.0)	0 (0.0)	<5 (†)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Hawaii

Birth Defects Counts and Prevalence 2018-2019 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	<5 (†)	0 (0.0)	0 (0.0)	11 (4.8)	0 (0.0)
Omphalocele	<5 (†)	0 (0.0)	<5 (†)	8 (3.5)	0 (0.0)
Pulmonary valve atresia	0 (0.0)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Pulmonary valve atresia and stenosis	<5 (†)	0 (0.0)	0 (0.0)	16 (7.0)	0 (0.0)
Rectal and large intestinal atresia / stenosis	0 (0.0)	0 (0.0)	0 (0.0)	6 (2.6)	0 (0.0)
Renal agenesis / hypoplasia	6 (11.7)	<5 (†)	<5 (†)	14 (6.1)	0 (0.0)
Single ventricle	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	<5 (†)	0 (0.0)	0 (0.0)	9 (3.9)	0 (0.0)
Spina bifida without anencephaly	<5 (†)	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Hawaii

Birth Defects Counts and Prevalence 2018-2019 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	<5 (†)	0 (0.0)	0 (0.0)	10 (4.4)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	<5 (†)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Transposition of the great arteries (TGA)	0 (0.0)	0 (0.0)	0 (0.0)	5 (2.2)	0 (0.0)
Tricuspid valve atresia	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Trisomy 13	0 (0.0)	0 (0.0)	<5 (†)	5 (2.2)	0 (0.0)
Trisomy 18	5 (9.8)	0 (0.0)	0 (0.0)	11 (4.8)	0 (0.0)
Trisomy 21 (Down syndrome)	16 (31.3)	<5 (†)	<5 (†)	36 (15.8)	<5 (†)
Turner syndrome	<5 (†)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Hawaii

Birth Defects Counts and Prevalence 2018-2019 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	30 (58.6)	<5 (†)	<5 (†)	104 (45.6)	0 (0.0)
Total live births	5116	552	530	22825	369
Male Live Births	2582	285	278	11889	199
Female Live Births	2534	267	252	10936	170

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Hawaii

Birth Defects Counts and Prevalence 2018-2019
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	11 (4.9)	<5 (†)	12 (4.1)
Trisomy 13	0 (0.0)	6 (8.3)	6 (2.0)
Trisomy 18	<5 (†)	14 (19.4)	18 (6.1)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Hawaii

Birth Defects Counts and Prevalence 2018-2019

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	21 (9.4)	38 (52.6)	59 (20.0)
Total live births	22280	7228	29509

Notes
 †- Counts <5 and associated prevalences are suppressed
 *- Data for totals include unknown/other maternal age

Hawaii

Notes on Specific Birth Defects

Defect	Site Comment
Universal comment	For reporting years 2018 and 2019, Hawaii data excludes birth defects from Tripler Army Medical Center (TAMC). TAMC is the only hospital where we conduct onsite data abstractions, and during the pandemic our workers were restricted access to the hospital. Even after the health emergency for COVID-19 was eased, they have yet to give back access (despite our requests to do so). TAMC accounts for roughly 14% of live births in HI in a given year.
Universal comment	There are no Hawaii birth defects data submissions for reporting years 2020 thru 2023 because we are still in the middle of abstracting 2020 data, and we did not get to 2021-2023 data yet. A combination of program funding issues and worker turnover have led to the program falling drastically behind in the collection schedule. Because of the funding issues we were not able to retain a full staff necessary to sustain an

Hawaii

Notes on Specific Birth Defects

Defect	Site Comment
	efficient program. In addition, because of worker turnover there were stretches of time where we did not have any abstractors working on hand.
Universal comment	Table 1b and 2b excludes Tripler Army Medical Center for the same reasons explained above.
Universal comment	Although we do code probable/possible diagnosis, they are excluded from the Hawaii birth defect counts.
Universal comment	Due to an extended vacancy in the clinical reviewer position, only select portions of the 2018 data, and the entirety of the 2019 dataset were not subject to clinical review.

Iowa

Birth Defects Counts and Prevalence 2018-2021 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	5 (0.4)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Anophthalmia / microphthalmia	14 (1.2)	<5 (†)	<5 (†)	0 (0.0)	<5 (†)
Anotia / microtia	24 (2.1)	0 (0.0)	6 (4.0)	<5 (†)	<5 (†)
Aortic valve stenosis	27 (2.4)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Atrial septal defect	216 (19.0)	29 (27.2)	38 (25.4)	16 (28.6)	<5 (†)
Atrioventricular septal defect (endocardial cushion defect)	74 (6.5)	<5 (†)	10 (6.7)	0 (0.0)	<5 (†)
Biliary atresia	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Bladder exstrophy	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Choanal atresia	8 (0.7)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Cleft lip alone (without cleft palate)	47 (4.1)	<5 (†)	5 (3.3)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Iowa

Birth Defects Counts and Prevalence 2018-2021 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	56 (4.9)	<5 (†)	12 (8.0)	<5 (†)	<5 (†)
Cleft palate alone (without cleft lip)	84 (7.4)	6 (5.6)	9 (6.0)	<5 (†)	<5 (†)
Cloacal exstrophy	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	213 (18.7)	14 (13.1)	19 (12.7)	6 (10.7)	<5 (†)
Coarctation of aorta	80 (7.0)	5 (4.7)	11 (7.4)	<5 (†)	<5 (†)
Common truncus (truncus arteriosus or TA)	5 (0.4)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Congenital cataract	36 (3.2)	<5 (†)	7 (4.7)	<5 (†)	0 (0.0)
Congenital posterior urethral valves	12 (2.1)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)
Craniosynostosis	83 (7.3)	0 (0.0)	8 (5.3)	<5 (†)	<5 (†)
Deletion 22q11.2	25 (2.2)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Dextro-Transposition of	22 (1.9)	0 (0.0)	<5 (†)	<5 (†)	<5 (†)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Iowa

Birth Defects Counts and Prevalence 2018-2021 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	42 (3.7)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Double outlet right ventricle (DORV)	21 (1.8)	5 (4.7)	<5 (†)	0 (0.0)	0 (0.0)
Ebstein anomaly	9 (0.8)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Encephalocele	7 (0.6)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	28 (2.5)	6 (5.6)	5 (3.3)	0 (0.0)	0 (0.0)
Gastroschisis	33 (2.9)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Holoprosencephaly	12 (1.1)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Hypoplastic left heart syndrome	18 (1.6)	<5 (†)	5 (3.3)	<5 (†)	0 (0.0)
Hypospadias	375 (64.4)	21 (38.8)	26 (34.2)	5 (17.5)	<5 (†)
Interrupted aortic arch (IAA)	7 (0.6)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Iowa

Birth Defects Counts and Prevalence 2018-2021 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	42 (3.7)	<5 (†)	8 (5.3)	<5 (†)	0 (0.0)
Omphalocele	15 (1.3)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Pulmonary valve atresia	11 (1.0)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)
Pulmonary valve atresia and stenosis	105 (9.2)	11 (10.3)	9 (6.0)	8 (14.3)	0 (0.0)
Rectal and large intestinal atresia / stenosis	33 (2.9)	5 (4.7)	<5 (†)	5 (8.9)	0 (0.0)
Renal agenesis / hypoplasia	63 (5.5)	5 (4.7)	9 (6.0)	6 (10.7)	0 (0.0)
Single ventricle	5 (0.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	31 (2.7)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Spina bifida without anencephaly	39 (3.4)	<5 (†)	<5 (†)	<5 (†)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Iowa

Birth Defects Counts and Prevalence 2018-2021 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	44 (3.9)	8 (7.5)	<5 (†)	<5 (†)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	16 (1.4)	0 (0.0)	<5 (†)	<5 (†)	<5 (†)
Transposition of the great arteries (TGA)	28 (2.5)	0 (0.0)	<5 (†)	<5 (†)	<5 (†)
Tricuspid valve atresia	<5 (†)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	22 (1.9)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Trisomy 13	8 (0.7)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Trisomy 18	16 (1.4)	<5 (†)	<5 (†)	0 (0.0)	<5 (†)
Trisomy 21 (Down syndrome)	155 (13.6)	13 (12.2)	30 (20.1)	5 (8.9)	<5 (†)
Turner syndrome	11 (2.0)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Iowa

Birth Defects Counts and Prevalence 2018-2021 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	551 (48.4)	49 (46.0)	79 (52.8)	23 (41.1)	5 (86.8)
Total live births	113754	10654	14958	5594	576
Male Live Births	58202	5419	7592	2857	280
Female Live Births	55551	5235	7365	2737	296

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Iowa

Birth Defects Counts and Prevalence 2018-2021
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	41 (3.2)	<5 (†)	42 (2.8)
Trisomy 13	16 (1.3)	5 (2.3)	21 (1.4)
Trisomy 18	22 (1.7)	32 (15.0)	54 (3.6)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Iowa

Birth Defects Counts and Prevalence 2018-2021 (Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	126 (9.9)	116 (54.2)	242 (16.3)
Total live births	126673	21403	148174
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Iowa

Notes on Specific Birth Defects

Defect	Site Comment
Ventricular septal defect	Data for this condition exclude Inlet VSD
Cleft palate alone (without cleft lip)	In determining Cleft palate alone, code 749.080 (bifid uvula) is excluded.
Choanal atresia	Data for this condition exclude choanal stenosis.
Universal comment	Table 1b and Table 2b Total male live births and Total female live births do not match Total live births because there are 2 unknown sex case
Universal comment	IA uses CDC/BPA codes.
Universal comment	Data for all conditions exclude probable/possible cases.
Limb deficiencies (reduction defects)	Data for this condition exclude other specified and unspecified limb reductions.

Illinois

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	49 (1.4)	13 (1.2)	16 (1.1)	<5 (†)	0 (0.0)
Anophthalmia / microphthalmia	70 (1.9)	27 (2.5)	30 (2.0)	<5 (†)	0 (0.0)
Anotia / microtia	69 (1.9)	16 (1.5)	52 (3.5)	10 (2.3)	0 (0.0)
Aortic valve stenosis	114 (3.2)	23 (2.1)	47 (3.2)	7 (1.6)	0 (0.0)
Atrial septal defect	1441 (39.8)	583 (53.1)	565 (38.3)	170 (39.0)	5 (119.0)
Atrioventricular septal defect (endocardial cushion defect)	238 (6.6)	95 (8.6)	106 (7.2)	24 (5.5)	0 (0.0)
Biliary atresia	22 (0.6)	8 (0.7)	7 (0.5)	<5 (†)	0 (0.0)
Bladder exstrophy	<5 (†)	6 (0.5)	<5 (†)	0 (0.0)	0 (0.0)
Choanal atresia	56 (1.5)	21 (1.9)	27 (1.8)	0 (0.0)	0 (0.0)
Cleft lip alone (without cleft palate)	127 (3.5)	33 (3.0)	37 (2.5)	12 (2.8)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Illinois

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	247 (6.8)	54 (4.9)	102 (6.9)	20 (4.6)	<5 (†)
Cleft palate alone (without cleft lip)	226 (6.2)	54 (4.9)	76 (5.2)	14 (3.2)	<5 (†)
Cloacal exstrophy	14 (0.4)	10 (0.9)	6 (0.4)	<5 (†)	0 (0.0)
Clubfoot	602 (16.6)	189 (17.2)	202 (13.7)	52 (11.9)	5 (119.0)
Coarctation of aorta	247 (6.8)	51 (4.6)	85 (5.8)	17 (3.9)	<5 (†)
Common truncus (truncus arteriosus or TA)	29 (0.8)	9 (0.8)	7 (0.5)	<5 (†)	0 (0.0)
Congenital cataract	39 (1.1)	22 (2.0)	15 (1.0)	5 (1.1)	<5 (†)
Congenital posterior urethral valves	34 (1.8)	28 (5.0)	9 (1.2)	5 (2.2)	0 (0.0)
Craniosynostosis	178 (4.9)	21 (1.9)	69 (4.7)	12 (2.8)	0 (0.0)
Deletion 22q11.2	51 (1.4)	19 (1.7)	12 (0.8)	<5 (†)	0 (0.0)
Dextro-Transposition of	123 (3.4)	33 (3.0)	40 (2.7)	9 (2.1)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Illinois

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	115 (3.2)	32 (2.9)	38 (2.6)	16 (3.7)	0 (0.0)
Double outlet right ventricle (DORV)	61 (1.7)	35 (3.2)	41 (2.8)	10 (2.3)	0 (0.0)
Ebstein anomaly	39 (1.1)	6 (0.5)	15 (1.0)	<5 (†)	0 (0.0)
Encephalocele	34 (0.9)	17 (1.5)	13 (0.9)	<5 (†)	<5 (†)
Esophageal atresia / tracheoesophageal fistula	108 (3.0)	25 (2.3)	29 (2.0)	8 (1.8)	0 (0.0)
Gastroschisis	118 (3.3)	41 (3.7)	55 (3.7)	8 (1.8)	0 (0.0)
Holoprosencephaly	37 (1.0)	22 (2.0)	18 (1.2)	6 (1.4)	0 (0.0)
Hypoplastic left heart syndrome	109 (3.0)	44 (4.0)	44 (3.0)	9 (2.1)	0 (0.0)
Hypospadias	1500 (80.8)	416 (74.2)	289 (38.7)	158 (70.2)	6 (295.6)
Interrupted aortic arch (IAA)	26 (0.7)	10 (0.9)	11 (0.7)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Illinois

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	170 (4.7)	91 (8.3)	50 (3.4)	11 (2.5)	<5 (†)
Omphalocele	80 (2.2)	30 (2.7)	31 (2.1)	11 (2.5)	0 (0.0)
Pulmonary valve atresia	25 (0.7)	17 (1.5)	15 (1.0)	<5 (†)	0 (0.0)
Pulmonary valve atresia and stenosis	285 (7.9)	124 (11.3)	137 (9.3)	29 (6.7)	<5 (†)
Rectal and large intestinal atresia / stenosis	184 (5.1)	67 (6.1)	75 (5.1)	25 (5.7)	<5 (†)
Renal agenesis / hypoplasia	379 (10.5)	147 (13.4)	148 (10.0)	33 (7.6)	<5 (†)
Single ventricle	33 (0.9)	12 (1.1)	12 (0.8)	<5 (†)	0 (0.0)
Small intestinal atresia / stenosis	123 (3.4)	49 (4.5)	65 (4.4)	13 (3.0)	0 (0.0)
Spina bifida without anencephaly	121 (3.3)	36 (3.3)	60 (4.1)	7 (1.6)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Illinois

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	192 (5.3)	68 (6.2)	70 (4.8)	21 (4.8)	<5 (†)
Total anomalous pulmonary venous connection (TAPVC)	39 (1.1)	14 (1.3)	26 (1.8)	11 (2.5)	0 (0.0)
Transposition of the great arteries (TGA)	138 (3.8)	36 (3.3)	44 (3.0)	14 (3.2)	0 (0.0)
Tricuspid valve atresia	22 (0.6)	9 (0.8)	7 (0.5)	<5 (†)	0 (0.0)
Tricuspid valve atresia and stenosis	46 (1.3)	31 (2.8)	21 (1.4)	<5 (†)	0 (0.0)
Trisomy 13	33 (0.9)	19 (1.7)	18 (1.2)	5 (1.1)	<5 (†)
Trisomy 18	79 (2.2)	35 (3.2)	45 (3.1)	10 (2.3)	<5 (†)
Trisomy 21 (Down syndrome)	512 (14.2)	129 (11.7)	306 (20.8)	55 (12.6)	<5 (†)
Turner syndrome	50 (2.8)	20 (3.7)	17 (2.3)	9 (4.3)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Illinois

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	2102 (58.1)	602 (54.8)	990 (67.2)	237 (54.4)	10 (238.1)
Total live births	361643	109860	147359	43556	420
Male Live Births	185708	56044	74705	22512	203
Female Live Births	175928	53812	72651	21043	217

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Illinois

Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	218 (4.1)	7 (0.5)	225 (3.3)
Trisomy 13	50 (0.9)	27 (1.8)	77 (1.1)
Trisomy 18	59 (1.1)	116 (7.6)	175 (2.6)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Illinois

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	460 (8.7)	548 (36.0)	1008 (14.8)
Total live births	526731	152246	678991
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Illinois

Notes on Specific Birth Defects

Defect	Site Comment
Ventricular septal defect	Data exclude probable cases and inlet ventricular septal defects (VSDs), including common atrioventricular canal type VSD.
Atrioventricular septal defect (endocardial cushion defect)	Data include inlet ventricular septal defects (VSDs) including common atrioventricular canal type VSD.
Universal comment	Data for all conditions include live births to age 2, and fetal deaths (these include stillbirths of 20 weeks gestation or more and miscarriages where families chose to hold funerals).

Indiana

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	24 (0.8)	5 (1.0)	6 (2.1)	<5 (†)	0 (0.0)
Anophthalmia / microphthalmia	21 (0.7)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Anotia / microtia	56 (1.9)	8 (1.7)	13 (4.6)	<5 (†)	<5 (†)
Aortic valve stenosis	46 (1.5)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Atrial septal defect	1224 (41.2)	247 (50.9)	121 (42.6)	47 (43.0)	0 (0.0)
Atrioventricular septal defect (endocardial cushion defect)	143 (4.8)	24 (5.0)	12 (4.2)	<5 (†)	0 (0.0)
Biliary atresia	17 (0.6)	6 (1.2)	<5 (†)	<5 (†)	0 (0.0)
Bladder exstrophy	13 (0.4)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Choanal atresia	33 (1.1)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Cleft lip alone (without cleft palate)	113 (3.8)	11 (2.3)	9 (3.2)	<5 (†)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Indiana

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	198 (6.7)	19 (3.9)	25 (8.8)	6 (5.5)	<5 (†)
Cleft palate alone (without cleft lip)	281 (9.5)	17 (3.5)	18 (6.3)	<5 (†)	<5 (†)
Cloacal exstrophy	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	350 (11.8)	61 (12.6)	28 (9.9)	10 (9.2)	0 (0.0)
Coarctation of aorta	170 (5.7)	25 (5.2)	19 (6.7)	5 (4.6)	0 (0.0)
Common truncus (truncus arteriosus or TA)	18 (0.6)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Congenital cataract	34 (1.1)	<5 (†)	6 (2.1)	<5 (†)	0 (0.0)
Congenital posterior urethral valves	40 (2.6)	7 (2.8)	5 (3.4)	5 (8.8)	0 (0.0)
Craniosynostosis	218 (7.3)	17 (3.5)	15 (5.3)	9 (8.2)	<5 (†)
Deletion 22q11.2	36 (1.2)	5 (1.0)	<5 (†)	<5 (†)	0 (0.0)
Dextro-Transposition of	77 (2.6)	<5 (†)	6 (2.1)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Indiana

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	99 (3.3)	18 (3.7)	12 (4.2)	<5 (†)	0 (0.0)
Double outlet right ventricle (DORV)	91 (3.1)	19 (3.9)	10 (3.5)	0 (0.0)	0 (0.0)
Ebstein anomaly	25 (0.8)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Encephalocele	26 (0.9)	7 (1.4)	6 (2.1)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	84 (2.8)	13 (2.7)	<5 (†)	<5 (†)	0 (0.0)
Gastroschisis	116 (3.9)	11 (2.3)	18 (6.3)	<5 (†)	0 (0.0)
Holoprosencephaly	26 (0.9)	11 (2.3)	<5 (†)	<5 (†)	0 (0.0)
Hypoplastic left heart syndrome	66 (2.2)	7 (1.4)	<5 (†)	<5 (†)	0 (0.0)
Hypospadias	1255 (82.4)	183 (74.1)	59 (40.5)	31 (54.5)	0 (0.0)
Interrupted aortic arch (IAA)	14 (0.5)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Indiana

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	110 (3.7)	16 (3.3)	13 (4.6)	<5 (†)	0 (0.0)
Omphalocele	51 (1.7)	15 (3.1)	<5 (†)	<5 (†)	0 (0.0)
Pulmonary valve atresia	30 (1.0)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Pulmonary valve atresia and stenosis	281 (9.5)	53 (10.9)	42 (14.8)	13 (11.9)	<5 (†)
Rectal and large intestinal atresia / stenosis	150 (5.1)	14 (2.9)	10 (3.5)	5 (4.6)	<5 (†)
Renal agenesis / hypoplasia	198 (6.7)	24 (5.0)	21 (7.4)	7 (6.4)	0 (0.0)
Single ventricle	22 (0.7)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	101 (3.4)	17 (3.5)	5 (1.8)	<5 (†)	0 (0.0)
Spina bifida without anencephaly	81 (2.7)	15 (3.1)	13 (4.6)	<5 (†)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Indiana

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	110 (3.7)	19 (3.9)	7 (2.5)	7 (6.4)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	29 (1.0)	<5 (†)	5 (1.8)	0 (0.0)	0 (0.0)
Transposition of the great arteries (TGA)	84 (2.8)	7 (1.4)	10 (3.5)	<5 (†)	0 (0.0)
Tricuspid valve atresia and stenosis	12 (0.4)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 13	20 (0.7)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)
Trisomy 18	38 (1.3)	13 (2.7)	<5 (†)	<5 (†)	0 (0.0)
Trisomy 21 (Down syndrome)	399 (13.4)	51 (10.5)	57 (20.1)	22 (20.1)	0 (0.0)
Turner syndrome	30 (2.1)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Ventricular septal defect	1630 (54.9)	252 (52.0)	199 (70.1)	63 (57.7)	<5 (†)
Total live births	296921	48482	28404	10921	386

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Indiana

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Male Live Births	152299	24702	14578	5684	188
Female Live Births	144622	23780	13826	5237	198

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Indiana

Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	145 (4.3)	5 (0.9)	150 (3.8)
Trisomy 13	9 (0.3)	13 (2.4)	22 (0.6)
Trisomy 18	29 (0.9)	30 (5.6)	59 (1.5)
Trisomy 21 (Down syndrome)	245 (7.2)	293 (54.7)	538 (13.7)
Total live births	339648	53595	393256

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Indiana Notes on Specific Birth Defects	
Defect	Site Comment
Tricuspid valve atresia	Tricuspid valve atresia and stenosis are not coded separately
Universal comment	Probable cases are included

Kansas

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	14 (1.2)	<5 (†)	7 (2.4)	0 (0.0)	<5 (†)
Anophthalmia / microphthalmia	<5 (†)	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)
Anotia / microtia	7 (0.6)	0 (0.0)	14 (4.7)	0 (0.0)	0 (0.0)
Aortic valve stenosis	15 (1.3)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Atrial septal defect	1376 (119.6)	127 (112.0)	291 (97.7)	36 (62.9)	23 (321.7)
Atrioventricular septal defect (endocardial cushion defect)	15 (1.3)	0 (0.0)	5 (1.7)	0 (0.0)	0 (0.0)
Biliary atresia	15 (1.3)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Bladder exstrophy	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Choanal atresia	9 (0.8)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Cleft lip alone (without cleft palate)	84 (7.3)	<5 (†)	32 (10.7)	<5 (†)	<5 (†)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Kansas

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	50 (4.3)	0 (0.0)	13 (4.4)	<5 (†)	0 (0.0)
Cleft palate alone (without cleft lip)	54 (4.7)	<5 (†)	24 (8.1)	<5 (†)	0 (0.0)
Clubfoot	92 (8.0)	10 (8.8)	25 (8.4)	6 (10.5)	<5 (†)
Coarctation of aorta	37 (3.2)	<5 (†)	7 (2.4)	0 (0.0)	<5 (†)
Common truncus (truncus arteriosus or TA)	9 (0.8)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Congenital cataract	18 (1.6)	<5 (†)	5 (1.7)	<5 (†)	0 (0.0)
Congenital posterior urethral valves	8 (1.4)	0 (0.0)	<5 (†)	0 (0.0)	<5 (†)
Craniosynostosis	112 (9.7)	6 (5.3)	14 (4.7)	<5 (†)	0 (0.0)
Deletion 22q11.2	6 (0.5)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Diaphragmatic hernia	11 (1.0)	<5 (†)	5 (1.7)	0 (0.0)	0 (0.0)

Notes

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- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Kansas

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Double outlet right ventricle (DORV)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Ebstein anomaly	5 (0.4)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Encephalocele	5 (0.5)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	25 (2.2)	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)
Gastroschisis	39 (3.4)	<5 (†)	9 (3.0)	0 (0.0)	0 (0.0)
Holoprosencephaly	5 (0.5)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Hypoplastic left heart syndrome	8 (0.7)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Hypospadias	225 (38.3)	23 (39.5)	37 (24.5)	<5 (†)	<5 (†)
Interrupted aortic arch (IAA)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Limb deficiencies (reduction defects)	13 (1.1)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Omphalocele	18 (1.6)	6 (5.3)	<5 (†)	<5 (†)	<5 (†)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Kansas

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Pulmonary valve atresia	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Pulmonary valve atresia and stenosis	41 (3.6)	<5 (†)	6 (2.0)	<5 (†)	0 (0.0)
Rectal and large intestinal atresia / stenosis	12 (1.0)	<5 (†)	11 (3.7)	0 (0.0)	<5 (†)
Renal agenesis / hypoplasia	59 (5.1)	<5 (†)	10 (3.4)	<5 (†)	<5 (†)
Single ventricle	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	16 (1.4)	<5 (†)	<5 (†)	0 (0.0)	<5 (†)
Spina bifida without anencephaly	36 (3.1)	0 (0.0)	8 (2.7)	<5 (†)	0 (0.0)
Tetralogy of Fallot (TOF)	19 (1.7)	0 (0.0)	<5 (†)	<5 (†)	<5 (†)
Total anomalous pulmonary venous	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Kansas

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
connection (TAPVC)					
Transposition of the great arteries (TGA)	13 (1.1)	0 (0.0)	<5 (†)	0 (0.0)	<5 (†)
Tricuspid valve atresia and stenosis	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 13	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 18	12 (1.0)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Trisomy 21 (Down syndrome)	183 (15.9)	18 (15.9)	66 (22.2)	5 (8.7)	<5 (†)
Turner syndrome	7 (1.2)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Ventricular septal defect	381 (33.1)	19 (16.8)	81 (27.2)	9 (15.7)	6 (83.9)
Total live births	115092	11342	29785	5722	715
Male Live Births	58743	5819	15112	2969	359
Female Live Births	56349	5523	14673	2753	356

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Kansas

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	50 (3.5)	<5 (†)	51 (3.0)
Trisomy 13	<5 (†)	<5 (†)	5 (0.3)
Trisomy 18	8 (0.6)	6 (2.4)	14 (0.8)
Trisomy 21 (Down syndrome)	126 (8.8)	147 (59.0)	273 (16.3)
Total live births	142978	24922	167900

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Kansas

Notes on Specific Birth Defects

Defect	Site Comment
Anencephaly	Kansas uses ICD10 codes; no other pregnancy outcomes or unknowns were available in birth defects systems.
Spina bifida without anencephaly	Kansas uses ICD10 codes, and values are more specific within the grouping cd codes.
Pulmonary valve atresia and stenosis	Kansas uses ICD10 codes, and has values for Stenosis, and Atresia, but not combined. Stenosis was added in 17.
Omphalocele	Kansas uses ICD10 codes, and is listed as Exomphalos.
Trisomy 13	Kansas uses ICD10 codes; no other pregnancy outcomes or unknowns were available in birth defects systems.

Kansas

Notes on Specific Birth Defects

Defect	Site Comment
Trisomy 21 (Down syndrome)	Kansas uses ICD10 codes; no other pregnancy outcomes or unknowns were available in birth defects systems.
Trisomy 18	Kansas uses ICD10 codes; no other pregnancy outcomes or unknowns were available in birth defects systems.
Deletion 22q11.2	Kansas uses ICD10 codes; listed as Velo-Cardio-Facial Syndrome.
Small intestinal atresia / stenosis	Kansas uses ICD10 codes, and values are more specific within the grouping cd codes.
Single ventricle	Kansas uses ICD10 codes, listed as Double Inlet Ventricle.
Universal comment	In 2019, 2020, 2022, and 2023 there were four records where sex was unknown, and set to M for the check totals.

Kentucky

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	46 (2.2)	6 (2.4)	7 (4.0)	<5 (†)	0 (0.0)
Anophthalmia / microphthalmia	13 (0.6)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Anotia / microtia	25 (1.2)	<5 (†)	7 (4.0)	<5 (†)	0 (0.0)
Aortic valve stenosis	20 (1.0)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Atrial septal defect	5714 (276.0)	1303 (522.3)	596 (342.3)	160 (566.8)	9 (340.9)
Atrioventricular septal defect (endocardial cushion defect)	85 (4.1)	10 (4.0)	6 (3.4)	<5 (†)	0 (0.0)
Biliary atresia	12 (0.6)	5 (2.0)	<5 (†)	<5 (†)	0 (0.0)
Bladder exstrophy	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Choanal atresia	26 (1.3)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)
Cleft lip alone (without cleft palate)	72 (3.5)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Kentucky

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	129 (6.2)	16 (6.4)	13 (7.5)	<5 (†)	<5 (†)
Cleft palate alone (without cleft lip)	154 (7.4)	10 (4.0)	5 (2.9)	5 (17.7)	0 (0.0)
Cloacal exstrophy	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	405 (19.6)	48 (19.2)	24 (13.8)	7 (24.8)	0 (0.0)
Coarctation of aorta	95 (4.6)	8 (3.2)	12 (6.9)	<5 (†)	0 (0.0)
Common truncus (truncus arteriosus or TA)	9 (0.4)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Congenital cataract	17 (0.8)	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)
Congenital posterior urethral valves	17 (1.6)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Deletion 22q11.2	20 (1.0)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Dextro-Transposition of great arteries (d-TGA)	76 (3.7)	8 (3.2)	8 (4.6)	<5 (†)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Kentucky

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Diaphragmatic hernia	55 (2.7)	10 (4.0)	11 (6.3)	<5 (†)	0 (0.0)
Double outlet right ventricle (DORV)	50 (2.4)	12 (4.8)	8 (4.6)	<5 (†)	0 (0.0)
Ebstein anomaly	13 (0.6)	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)
Encephalocele	19 (0.9)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	45 (2.2)	5 (2.0)	<5 (†)	<5 (†)	0 (0.0)
Gastroschisis	102 (4.9)	12 (4.8)	5 (2.9)	0 (0.0)	0 (0.0)
Holoprosencephaly	19 (0.9)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Hypoplastic left heart syndrome	47 (2.3)	12 (4.8)	6 (3.4)	0 (0.0)	0 (0.0)
Hypospadias	917 (86.3)	98 (78.3)	38 (43.7)	13 (92.9)	<5 (†)
Interrupted aortic arch (IAA)	10 (0.5)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Limb deficiencies (reduction defects)	79 (3.8)	10 (4.0)	8 (4.6)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Kentucky

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Omphalocele	51 (2.5)	8 (3.2)	5 (2.9)	<5 (†)	0 (0.0)
Pulmonary valve atresia	14 (0.7)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Pulmonary valve atresia and stenosis	122 (5.9)	17 (6.8)	15 (8.6)	<5 (†)	0 (0.0)
Rectal and large intestinal atresia / stenosis	86 (4.2)	9 (3.6)	11 (6.3)	<5 (†)	0 (0.0)
Renal agenesis / hypoplasia	130 (6.3)	20 (8.0)	14 (8.0)	5 (17.7)	<5 (†)
Single ventricle	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	60 (2.9)	13 (5.2)	10 (5.7)	<5 (†)	0 (0.0)
Spina bifida without anencephaly	66 (3.2)	12 (4.8)	6 (3.4)	<5 (†)	0 (0.0)
Tetralogy of Fallot (TOF)	72 (3.5)	16 (6.4)	6 (3.4)	<5 (†)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Kentucky

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Total anomalous pulmonary venous connection (TAPVC)	24 (1.2)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Transposition of the great arteries (TGA)	78 (3.8)	8 (3.2)	8 (4.6)	<5 (†)	0 (0.0)
Tricuspid valve atresia	15 (0.7)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)
Trisomy 13	25 (1.2)	9 (3.6)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 18	48 (2.3)	11 (4.4)	5 (2.9)	0 (0.0)	0 (0.0)
Trisomy 21 (Down syndrome)	221 (10.7)	36 (14.4)	35 (20.1)	8 (28.3)	0 (0.0)
Turner syndrome	39 (3.9)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Ventricular septal defect	1236 (59.7)	189 (75.8)	148 (85.0)	37 (131.1)	<5 (†)
Total live births	207041	24948	17410	2823	264
Male Live Births	106217	12517	8700	1400	131
Female Live Births	100812	12430	8710	1423	133

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Kentucky Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	112 (5.1)	8 (2.4)	123 (4.7)
Trisomy 13	25 (1.1)	14 (4.2)	40 (1.5)
Trisomy 18	36 (1.6)	29 (8.7)	65 (2.5)
Trisomy 21 (Down syndrome)	172 (7.8)	135 (40.4)	330 (12.5)
Total live births	221344	33449	263206

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Kentucky Notes on Specific Birth Defects

Defect	Site Comment
Universal comment	The differences shown in the sheet for the "Check total Race LB" and "Check total Sex LB" is due to the added data under the "unknown gender" category. The Unknown gender category was added due to it being on the SAS data file but the excel sheet does not include it in the automatic calculation it does in the "Totals" tab because the "unknown gender" category is newly added.
Universal comment	The differences shown in the sheet for the "Check total All LB" is due to the added data under the "unknown gender" category. The Unknown gender category was added due to it being on the SAS data file but the excel sheet

Kentucky Notes on Specific Birth Defects	
Defect	Site Comment
	does not include it in the automatic calculation it does in the "Totals" tab because the "unknown gender" category is newly added.

Louisiana

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	23 (1.7)	15 (1.4)	<5 (†)	<5 (†)	<5 (†)
Anophthalmia / microphthalmia	21 (1.5)	20 (1.9)	8 (3.2)	0 (0.0)	0 (0.0)
Anotia / microtia	23 (1.7)	18 (1.7)	14 (5.6)	0 (0.0)	0 (0.0)
Aortic valve stenosis	20 (1.4)	8 (0.8)	8 (3.2)	<5 (†)	0 (0.0)
Atrial septal defect	1511 (109.0)	1354 (130.0)	286 (115.0)	41 (87.4)	14 (115.2)
Atrioventricular septal defect (endocardial cushion defect)	110 (7.9)	98 (9.4)	20 (8.0)	<5 (†)	<5 (†)
Biliary atresia	11 (0.8)	9 (0.9)	0 (0.0)	0 (0.0)	0 (0.0)
Bladder exstrophy	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Choanal atresia	16 (1.2)	<5 (†)	<5 (†)	0 (0.0)	<5 (†)
Cleft lip alone (without cleft palate)	46 (3.3)	17 (1.6)	13 (5.2)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Louisiana

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	97 (7.0)	59 (5.7)	21 (8.4)	<5 (†)	0 (0.0)
Cleft palate alone (without cleft lip)	155 (11.2)	65 (6.2)	23 (9.3)	<5 (†)	<5 (†)
Clubfoot	184 (13.3)	158 (15.2)	29 (11.7)	<5 (†)	0 (0.0)
Coarctation of aorta	77 (5.6)	46 (4.4)	12 (4.8)	<5 (†)	0 (0.0)
Common truncus (truncus arteriosus or TA)	11 (1.0)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Congenital cataract	36 (2.6)	22 (2.1)	6 (2.4)	<5 (†)	0 (0.0)
Congenital posterior urethral valves	13 (1.8)	22 (4.2)	<5 (†)	0 (0.0)	0 (0.0)
Craniosynostosis	154 (11.1)	84 (8.1)	22 (8.8)	<5 (†)	<5 (†)
Deletion 22q11.2	28 (2.0)	20 (1.9)	<5 (†)	0 (0.0)	0 (0.0)
Dextro-Transposition of great arteries (d-TGA)	37 (2.7)	19 (1.8)	9 (3.6)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Louisiana

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Diaphragmatic hernia	36 (2.6)	27 (2.6)	<5 (†)	<5 (†)	0 (0.0)
Double outlet right ventricle (DORV)	38 (2.7)	34 (3.3)	5 (2.0)	<5 (†)	0 (0.0)
Ebstein anomaly	12 (0.9)	7 (0.7)	<5 (†)	<5 (†)	0 (0.0)
Encephalocele	10 (0.7)	16 (1.5)	<5 (†)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	25 (1.8)	25 (2.4)	7 (2.8)	0 (0.0)	<5 (†)
Gastroschisis	45 (3.2)	36 (3.5)	<5 (†)	<5 (†)	0 (0.0)
Holoprosencephaly	9 (0.6)	17 (1.6)	5 (2.0)	0 (0.0)	0 (0.0)
Hypoplastic left heart syndrome	33 (2.4)	21 (2.0)	5 (2.0)	<5 (†)	0 (0.0)
Hypospadias	594 (83.5)	369 (69.8)	57 (44.7)	16 (65.6)	<5 (†)
Interrupted aortic arch (IAA)	14 (1.0)	12 (1.2)	<5 (†)	<5 (†)	0 (0.0)
Limb deficiencies (reduction defects)	35 (2.5)	32 (3.1)	6 (2.4)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Louisiana

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Omphalocele	28 (2.0)	19 (1.8)	5 (2.0)	0 (0.0)	0 (0.0)
Pulmonary valve atresia	14 (1.0)	15 (1.4)	<5 (†)	0 (0.0)	0 (0.0)
Pulmonary valve atresia and stenosis	168 (12.1)	174 (16.7)	40 (16.1)	<5 (†)	<5 (†)
Rectal and large intestinal atresia / stenosis	48 (3.5)	47 (4.5)	16 (6.4)	<5 (†)	<5 (†)
Renal agenesis / hypoplasia	92 (6.6)	48 (4.6)	13 (5.2)	<5 (†)	0 (0.0)
Single ventricle	5 (0.4)	<5 (†)	5 (2.0)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	60 (4.3)	47 (4.5)	10 (4.0)	0 (0.0)	0 (0.0)
Spina bifida without anencephaly	38 (2.7)	27 (2.6)	14 (5.6)	0 (0.0)	0 (0.0)
Tetralogy of Fallot (TOF)	71 (5.1)	54 (5.2)	8 (3.2)	0 (0.0)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 ma
 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f
 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
 *- Data for totals include unknown/other race

Louisiana

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Total anomalous pulmonary venous connection (TAPVC)	13 (1.2)	8 (1.0)	8 (4.0)	<5 (†)	0 (0.0)
Transposition of the great arteries (TGA)	43 (3.1)	24 (2.3)	14 (5.6)	<5 (†)	0 (0.0)
Tricuspid valve atresia	9 (0.6)	<5 (†)	6 (2.4)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	12 (0.9)	7 (0.7)	7 (2.8)	0 (0.0)	0 (0.0)
Trisomy 13	13 (0.9)	17 (1.6)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 18	31 (2.2)	31 (3.0)	9 (3.6)	0 (0.0)	0 (0.0)
Trisomy 21 (Down syndrome)	198 (14.3)	113 (10.9)	55 (22.1)	7 (14.9)	<5 (†)
Turner syndrome	17 (2.5)	9 (1.8)	<5 (†)	0 (0.0)	0 (0.0)
Ventricular septal defect	885 (63.8)	638 (61.3)	222 (89.3)	21 (44.8)	5 (41.2)
Total live births	138624	104125	24863	4692	1215

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Louisiana

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Male Live Births	71170	52837	12742	2439	603
Female Live Births	67454	51286	12121	2253	612

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Louisiana

Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	84 (3.5)	5 (1.3)	89 (3.2)
Trisomy 13	25 (1.0)	8 (2.1)	33 (1.2)
Trisomy 18	38 (1.6)	35 (9.1)	73 (2.6)
Trisomy 21 (Down syndrome)	200 (8.3)	188 (49.0)	388 (13.8)
Total live births	241800	38381	280181

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Maine

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	5 (1.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Anophthalmia / microphthalmia	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Anotia / microtia	8 (1.5)	0 (0.0)	0 (0.0)	0 (0.0)	<5 (†)
Aortic valve stenosis	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Atrial septal defect	165 (31.9)	16 (54.3)	<5 (†)	6 (56.2)	<5 (†)
Atrioventricular septal defect (endocardial cushion defect)	8 (1.5)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Biliary atresia	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bladder exstrophy	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Choanal atresia	8 (1.5)	0 (0.0)	0 (0.0)	0 (0.0)	<5 (†)
Cleft lip alone (without cleft palate)	15 (2.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Maine

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	32 (6.2)	0 (0.0)	<5 (†)	0 (0.0)	<5 (†)
Cleft palate alone (without cleft lip)	25 (4.8)	0 (0.0)	0 (0.0)	0 (0.0)	<5 (†)
Cloacal exstrophy	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	81 (15.7)	<5 (†)	0 (0.0)	<5 (†)	<5 (†)
Coarctation of aorta	8 (1.5)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Common truncus (truncus arteriosus or TA)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Congenital cataract	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Congenital posterior urethral valves	24 (9.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Craniosynostosis	13 (2.5)	<5 (†)	0 (0.0)	0 (0.0)	<5 (†)
Deletion 22q11.2	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Dextro-Transposition of	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Maine

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	5 (1.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Double outlet right ventricle (DORV)	<5 (†)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Ebstein anomaly	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Encephalocele	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	8 (1.5)	0 (0.0)	0 (0.0)	0 (0.0)	<5 (†)
Gastroschisis	10 (1.9)	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)
Holoprosencephaly	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Hypoplastic left heart syndrome	<5 (†)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Hypospadias	137 (51.9)	7 (47.1)	<5 (†)	<5 (†)	<5 (†)
Interrupted aortic arch (IAA)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Maine

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	13 (2.5)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)
Omphalocele	5 (1.0)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Pulmonary valve atresia	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Pulmonary valve atresia and stenosis	7 (1.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Rectal and large intestinal atresia / stenosis	9 (1.7)	0 (0.0)	0 (0.0)	0 (0.0)	<5 (†)
Renal agenesis / hypoplasia	19 (3.7)	0 (0.0)	0 (0.0)	<5 (†)	<5 (†)
Single ventricle	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	7 (1.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Spina bifida without anencephaly	10 (1.9)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Maine

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	11 (2.1)	0 (0.0)	0 (0.0)	<5 (†)	<5 (†)
Total anomalous pulmonary venous connection (TAPVC)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Transposition of the great arteries (TGA)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Tricuspid valve atresia	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Trisomy 13	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Trisomy 18	5 (1.0)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Trisomy 21 (Down syndrome)	42 (8.1)	7 (23.8)	<5 (†)	<5 (†)	<5 (†)
Turner syndrome	6 (2.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Maine

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
					American Indian or Alaskan Native, Non-Hispanic
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	
Ventricular septal defect	129 (24.9)	<5 (†)	<5 (†)	<5 (†)	<5 (†)
Total live births	51753	2944	1331	1068	522
Male Live Births	26394	1486	691	550	283
Female Live Births	25323	1457	640	518	238

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Maine

Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	12 (2.6)	<5 (†)	13 (2.2)
Trisomy 13	<5 (†)	<5 (†)	<5 (†)
Trisomy 18	<5 (†)	<5 (†)	6 (1.0)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Maine Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	27 (5.7)	28 (24.9)	55 (9.4)
Total live births	46974	11227	58226
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Maine Notes on Specific Birth Defects

Defect	Site Comment
Ventricular septal defect	Data for this condition does not exclude Inlet VSD or common atrioventricular (AV) canal type VSD.
Atrioventricular septal defect (endocardial cushion defect)	Data for this condition does not include Inlet VSD or common atrioventricular (AV) canal type VSD.
Tricuspid valve atresia and stenosis	Data for this condition include cases with Tricuspid stenosis or hypoplasia.
Tricuspid valve atresia	Data for this condition include cases with Tricuspid stenosis or hypoplasia.
Hypospadias	Data for this condition include male cases only.
Turner syndrome	Data for this condition include female cases only.

Maine

Notes on Specific Birth Defects

Defect	Site Comment
Congenital posterior urethral valves	Data for this condition include male cases only.
Universal comment	Data for total live births include non-binary and unknown gender.
Universal comment	Data for conditions include possible/probable cases.
Universal comment	Data for conditions include only live births. Data do not include stillbirths, terminations, or other pregnancy outcomes.

Maryland

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	<5 (†)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Anophthalmia / microphthalmia	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Anotia / microtia	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Aortic valve stenosis	5 (0.3)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Atrial septal defect	92 (6.4)	121 (11.3)	21 (3.2)	<5 (†)	<5 (†)
Atrioventricular septal defect (endocardial cushion defect)	10 (0.7)	16 (1.5)	<5 (†)	0 (0.0)	<5 (†)
Biliary atresia	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bladder exstrophy	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Choanal atresia	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Cleft lip alone (without cleft palate)	25 (1.7)	9 (0.8)	11 (1.7)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Maryland

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	23 (1.6)	8 (0.7)	5 (0.8)	<5 (†)	0 (0.0)
Cleft palate alone (without cleft lip)	46 (3.2)	15 (1.4)	11 (1.7)	<5 (†)	0 (0.0)
Cloacal exstrophy	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	72 (5.0)	14 (1.3)	17 (2.6)	5 (2.1)	0 (0.0)
Coarctation of aorta	15 (1.0)	18 (1.7)	<5 (†)	<5 (†)	0 (0.0)
Common truncus (truncus arteriosus or TA)	5 (0.3)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Congenital cataract	<5 (†)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Congenital posterior urethral valves	<5 (†)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Craniosynostosis	7 (0.5)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Deletion 22q11.2	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Dextro-Transposition of	11 (0.8)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Maryland

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	13 (0.9)	8 (0.7)	<5 (†)	0 (0.0)	0 (0.0)
Double outlet right ventricle (DORV)	8 (0.6)	6 (0.6)	0 (0.0)	0 (0.0)	0 (0.0)
Ebstein anomaly	<5 (†)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)
Encephalocele	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	9 (0.6)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Gastroschisis	12 (0.8)	12 (1.1)	<5 (†)	<5 (†)	0 (0.0)
Holoprosencephaly	<5 (†)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Hypoplastic left heart syndrome	6 (0.4)	8 (0.7)	<5 (†)	<5 (†)	0 (0.0)
Hypospadias	112 (15.2)	102 (18.7)	21 (6.2)	12 (9.8)	0 (0.0)
Interrupted aortic arch (IAA)	15 (1.0)	22 (2.1)	<5 (†)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Maryland

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	10 (0.7)	7 (0.7)	<5 (†)	<5 (†)	0 (0.0)
Omphalocele	13 (0.9)	5 (0.5)	0 (0.0)	0 (0.0)	<5 (†)
Pulmonary valve atresia	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Pulmonary valve atresia and stenosis	6 (0.4)	10 (0.9)	<5 (†)	<5 (†)	0 (0.0)
Rectal and large intestinal atresia / stenosis	5 (0.3)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Renal agenesis / hypoplasia	10 (0.7)	7 (0.7)	<5 (†)	<5 (†)	0 (0.0)
Single ventricle	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	<5 (†)	8 (0.7)	<5 (†)	<5 (†)	0 (0.0)
Spina bifida without anencephaly	27 (1.9)	5 (0.5)	5 (0.8)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 ma
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Maryland

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	26 (1.8)	27 (2.5)	5 (0.8)	<5 (†)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Transposition of the great arteries (TGA)	12 (0.8)	5 (0.5)	<5 (†)	<5 (†)	0 (0.0)
Tricuspid valve atresia	<5 (†)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	<5 (†)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 13	<5 (†)	5 (0.5)	0 (0.0)	<5 (†)	0 (0.0)
Trisomy 18	9 (0.6)	13 (1.2)	<5 (†)	<5 (†)	<5 (†)
Trisomy 21 (Down syndrome)	67 (4.7)	64 (6.0)	23 (3.5)	<5 (†)	<5 (†)
Turner syndrome	<5 (†)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Maryland

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
					American Indian or Alaskan Native, Non-Hispanic
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	
Ventricular septal defect	97 (6.7)	102 (9.5)	22 (3.3)	9 (3.7)	<5 (†)
Total live births	143825	107280	65872	24028	508
Male Live Births	73698	54408	33645	12288	249
Female Live Births	70124	52866	32226	11738	259

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Maryland

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	38 (1.4)	<5 (†)	60 (1.7)
Trisomy 13	7 (0.3)	<5 (†)	11 (0.3)
Trisomy 18	15 (0.6)	22 (2.6)	50 (1.4)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Maryland Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	76 (2.9)	138 (16.5)	294 (8.5)
Total live births	263338	83390	346744
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Maryland Notes on Specific Birth Defects

Defect	Site Comment
Interrupted aortic arch (IAA)	For 2021-2023, Q25.2 was used for this condition. Our registry does not allow for entry of Q25.21
Universal comment	For 2021-2023 Other/Unknown race/ethnicity includes multirace
Universal comment	For 2021-2023 Other/Unknown includes all those in which race/ethnicity was not determined

Massachusetts

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	<5 (†)	<5 (†)	6 (0.8)	<5 (†)	0 (0.0)
Anophthalmia / microphthalmia	21 (1.1)	6 (1.7)	13 (1.8)	8 (2.5)	0 (0.0)
Anotia / microtia	30 (1.5)	5 (1.4)	20 (2.8)	10 (3.2)	0 (0.0)
Aortic valve stenosis	41 (2.1)	<5 (†)	12 (1.7)	<5 (†)	0 (0.0)
Atrial septal defect	449 (23.1)	128 (36.0)	187 (26.2)	62 (19.6)	6 (42.2)
Atrioventricular septal defect (endocardial cushion defect)	122 (6.3)	58 (16.3)	53 (7.4)	10 (3.2)	<5 (†)
Biliary atresia	11 (0.6)	5 (1.4)	5 (0.7)	<5 (†)	0 (0.0)
Bladder exstrophy	6 (0.3)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Choanal atresia	12 (0.6)	<5 (†)	7 (1.0)	<5 (†)	<5 (†)
Cleft lip alone (without cleft palate)	53 (2.7)	0 (0.0)	22 (3.1)	11 (3.5)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Massachusetts

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	75 (3.9)	14 (3.9)	36 (5.0)	7 (2.2)	<5 (†)
Cleft palate alone (without cleft lip)	110 (5.7)	20 (5.6)	31 (4.3)	20 (6.3)	<5 (†)
Cloacal exstrophy	<5 (†)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Clubfoot	294 (15.1)	54 (15.2)	122 (17.1)	21 (6.6)	<5 (†)
Coarctation of aorta	98 (5.0)	24 (6.7)	35 (4.9)	6 (1.9)	0 (0.0)
Common truncus (truncus arteriosus or TA)	10 (0.5)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Congenital cataract	75 (3.9)	7 (2.0)	13 (1.8)	12 (3.8)	<5 (†)
Congenital posterior urethral valves	20 (2.0)	6 (3.3)	8 (2.2)	<5 (†)	0 (0.0)
Craniosynostosis	148 (7.6)	9 (2.5)	24 (3.4)	9 (2.8)	<5 (†)
Deletion 22q11.2	29 (1.5)	9 (2.5)	13 (1.8)	<5 (†)	<5 (†)
Dextro-Transposition of	45 (2.3)	8 (2.2)	17 (2.4)	6 (1.9)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Massachusetts

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	52 (2.7)	10 (2.8)	22 (3.1)	14 (4.4)	<5 (†)
Double outlet right ventricle (DORV)	16 (0.8)	7 (2.0)	10 (1.4)	<5 (†)	<5 (†)
Ebstein anomaly	7 (0.4)	<5 (†)	7 (1.0)	<5 (†)	0 (0.0)
Encephalocele	14 (0.7)	<5 (†)	5 (0.7)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	49 (2.5)	<5 (†)	22 (3.1)	<5 (†)	0 (0.0)
Gastroschisis	35 (1.8)	7 (2.0)	25 (3.5)	0 (0.0)	<5 (†)
Holoprosencephaly	10 (0.5)	<5 (†)	6 (0.8)	0 (0.0)	0 (0.0)
Hypoplastic left heart syndrome	19 (1.0)	6 (1.7)	20 (2.8)	<5 (†)	0 (0.0)
Hypospadias	778 (78.1)	115 (63.6)	165 (45.7)	50 (30.6)	8 (109.7)
Interrupted aortic arch (IAA)	6 (0.3)	6 (1.7)	<5 (†)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Massachusetts

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	61 (3.1)	20 (5.6)	22 (3.1)	12 (3.8)	0 (0.0)
Omphalocele	39 (2.0)	9 (2.5)	17 (2.4)	<5 (†)	0 (0.0)
Pulmonary valve atresia	20 (1.0)	<5 (†)	7 (1.0)	6 (1.9)	<5 (†)
Pulmonary valve atresia and stenosis	168 (8.6)	23 (6.5)	65 (9.1)	24 (7.6)	<5 (†)
Rectal and large intestinal atresia / stenosis	72 (3.7)	13 (3.7)	27 (3.8)	13 (4.1)	<5 (†)
Renal agenesis / hypoplasia	179 (9.2)	35 (9.8)	62 (8.7)	13 (4.1)	0 (0.0)
Single ventricle	7 (0.4)	<5 (†)	<5 (†)	<5 (†)	<5 (†)
Small intestinal atresia / stenosis	46 (2.4)	16 (4.5)	15 (2.1)	6 (1.9)	0 (0.0)
Spina bifida without anencephaly	35 (1.8)	7 (2.0)	30 (4.2)	5 (1.6)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Massachusetts

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	84 (4.3)	18 (5.1)	26 (3.6)	13 (4.1)	<5 (†)
Total anomalous pulmonary venous connection (TAPVC)	13 (0.7)	7 (2.0)	10 (1.4)	<5 (†)	<5 (†)
Transposition of the great arteries (TGA)	56 (2.9)	10 (2.8)	25 (3.5)	7 (2.2)	0 (0.0)
Tricuspid valve atresia	<5 (†)	<5 (†)	6 (0.8)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	6 (0.3)	<5 (†)	10 (1.4)	0 (0.0)	0 (0.0)
Trisomy 13	8 (0.4)	5 (1.4)	<5 (†)	<5 (†)	0 (0.0)
Trisomy 18	23 (1.2)	11 (3.1)	23 (3.2)	<5 (†)	0 (0.0)
Trisomy 21 (Down syndrome)	191 (9.8)	85 (23.9)	114 (16.0)	21 (6.6)	5 (35.2)
Turner syndrome	31 (3.3)	<5 (†)	18 (5.1)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Massachusetts

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
					American Indian or Alaskan Native, Non-Hispanic
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	
Ventricular septal defect	551 (28.3)	100 (28.1)	236 (33.1)	103 (32.6)	<5 (†)
Total live births	194485	35583	71398	31608	1422
Male Live Births	99653	18077	36086	16339	729
Female Live Births	94832	17505	35311	15269	693

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Massachusetts

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	77 (3.1)	10 (1.0)	87 (2.5)
Trisomy 13	74 (3.0)	105 (11.0)	179 (5.2)
Trisomy 18	112 (4.5)	227 (23.7)	341 (10.0)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Massachusetts Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	396 (16.1)	778 (81.2)	1174 (34.3)
Total live births	246519	95845	342374
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Massachusetts Notes on Specific Birth Defects

Defect	Site Comment
Ventricular septal defect	Excludes isolated small (≤ 4 mm) muscular and membranous VSDs
Atrial septal defect	Excludes isolated small (≤ 4 mm) atrial septal defects ASDs
Clubfoot	Requires treatment for live births and autopsy confirmation for non-livebirths
Universal comment	CDC/BPA coding, but with different codes for congenital cataract, diaphragmatic hernia, and DORV
Universal comment	Possible/probable cases are excluded
Universal comment	Outcomes include live births, stillbirths and unspecified non-live births (terminations/miscarriages)
Universal comment	Stillbirths defined as fetal deaths ≥ 20 weeks or ≥ 350 grams

Massachusetts

Notes on Specific Birth Defects

Defect	Site Comment
Universal comment	Unspecified non-live births include terminations, any GA; and miscarriages <20 weeks or <350grams
Universal comment	For live births and for stillbirths, race/ethnicity comes from vital records
Universal comment	For other outcomes or when not available, race/ethnicity comes from the medical record

Michigan

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	39 (1.1)	<6 (†)	<6 (†)	<6 (†)	0 (0.0)
Anophthalmia / microphthalmia	65 (1.8)	22 (2.3)	6 (1.8)	6 (3.1)	0 (0.0)
Anotia / microtia	94 (2.7)	25 (2.6)	13 (4.0)	7 (3.7)	<6 (†)
Aortic valve stenosis	117 (3.3)	10 (1.0)	<6 (†)	7 (3.7)	<6 (†)
Atrial septal defect	7616 (215.5)	3162 (324.9)	734 (223.8)	409 (213.9)	91 (283.9)
Atrioventricular septal defect (endocardial cushion defect)	158 (4.5)	54 (5.5)	15 (4.6)	<6 (†)	0 (0.0)
Biliary atresia	67 (1.9)	36 (3.7)	6 (1.8)	<6 (†)	0 (0.0)
Bladder exstrophy	7 (0.2)	<6 (†)	<6 (†)	0 (0.0)	0 (0.0)
Choanal atresia	82 (2.3)	18 (1.8)	8 (2.4)	<6 (†)	<6 (†)
Cleft lip alone (without cleft palate)	295 (8.3)	60 (6.2)	20 (6.1)	14 (7.3)	<6 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 ma
- 2- Data for this condition include female and unknown infant sexcases only. Prevalence is calculated per 10,000 fe
- 3- Data for total live births include unknown infant sex.

General comments

†- <6 (†) denotes censored count and prevalence when 1-5 cases observed

*- Data for totals include unknown/other race

Michigan

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	334 (9.5)	69 (7.1)	39 (11.9)	15 (7.8)	<6 (†)
Cleft palate alone (without cleft lip)	467 (13.2)	99 (10.2)	37 (11.3)	24 (12.6)	7 (21.8)
Cloacal exstrophy	<6 (†)	<6 (†)	<6 (†)	0 (0.0)	0 (0.0)
Clubfoot	848 (24.0)	225 (23.1)	64 (19.5)	38 (19.9)	12 (37.4)
Coarctation of aorta	355 (10.0)	70 (7.2)	30 (9.1)	17 (8.9)	<6 (†)
Common truncus (truncus arteriosus or TA)	44 (1.2)	15 (1.5)	8 (2.4)	<6 (†)	0 (0.0)
Congenital cataract	101 (2.9)	29 (3.0)	7 (2.1)	<6 (†)	0 (0.0)
Congenital posterior urethral valves	60 (3.3)	28 (5.7)	<6 (†)	<6 (†)	0 (0.0)
Craniosynostosis	1086 (30.7)	227 (23.3)	80 (24.4)	54 (28.2)	<6 (†)
Deletion 22q11.2	69 (2.0)	15 (1.5)	7 (2.1)	<6 (†)	0 (0.0)
Dextro-Transposition of	145 (4.1)	32 (3.3)	12 (3.7)	<6 (†)	<6 (†)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- <6 (†) denotes censored count and prevalence when 1-5 cases observed

*- Data for totals include unknown/other race

Michigan

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	159 (4.5)	41 (4.2)	16 (4.9)	<6 (†)	<6 (†)
Double outlet right ventricle (DORV)	108 (3.1)	37 (3.8)	13 (4.0)	<6 (†)	<6 (†)
Ebstein anomaly	29 (0.8)	7 (0.7)	<6 (†)	<6 (†)	<6 (†)
Encephalocele	43 (1.2)	14 (1.4)	<6 (†)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	124 (3.5)	15 (1.5)	6 (1.8)	<6 (†)	0 (0.0)
Gastroschisis	129 (3.7)	29 (3.0)	14 (4.3)	<6 (†)	<6 (†)
Holoprosencephaly	18 (0.5)	17 (1.7)	<6 (†)	<6 (†)	<6 (†)
Hypoplastic left heart syndrome	161 (4.6)	42 (4.3)	16 (4.9)	<6 (†)	6 (18.7)
Hypospadias	1845 (102.2)	448 (90.9)	102 (60.6)	77 (78.8)	11 (66.7)
Interrupted aortic arch (IAA)	33 (0.9)	13 (1.3)	<6 (†)	6 (3.1)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- <6 (†) denotes censored count and prevalence when 1-5 cases observed

*- Data for totals include unknown/other race

Michigan

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	183 (5.2)	63 (6.5)	18 (5.5)	7 (3.7)	<6 (†)
Omphalocele	101 (2.9)	106 (10.9)	7 (2.1)	<6 (†)	0 (0.0)
Pulmonary valve atresia	76 (2.2)	24 (2.5)	<6 (†)	<6 (†)	<6 (†)
Pulmonary valve atresia and stenosis	467 (13.2)	148 (15.2)	39 (11.9)	10 (5.2)	<6 (†)
Rectal and large intestinal atresia / stenosis	160 (4.5)	36 (3.7)	14 (4.3)	6 (3.1)	0 (0.0)
Renal agenesis / hypoplasia	329 (9.3)	80 (8.2)	25 (7.6)	8 (4.2)	<6 (†)
Single ventricle	95 (2.7)	30 (3.1)	12 (3.7)	<6 (†)	<6 (†)
Small intestinal atresia / stenosis	137 (3.9)	52 (5.3)	16 (4.9)	8 (4.2)	0 (0.0)
Spina bifida without anencephaly	145 (4.1)	26 (2.7)	20 (6.1)	<6 (†)	<6 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- <6 (†) denotes censored count and prevalence when 1-5 cases observed
- *- Data for totals include unknown/other race

Michigan

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	203 (5.7)	63 (6.5)	13 (4.0)	9 (4.7)	<6 (†)
Total anomalous pulmonary venous connection (TAPVC)	34 (1.0)	9 (0.9)	<6 (†)	<6 (†)	0 (0.0)
Transposition of the great arteries (TGA)	147 (4.2)	33 (3.4)	12 (3.7)	<6 (†)	<6 (†)
Tricuspid valve atresia	35 (1.0)	11 (1.1)	<6 (†)	<6 (†)	0 (0.0)
Tricuspid valve atresia and stenosis	35 (1.0)	11 (1.1)	<6 (†)	<6 (†)	0 (0.0)
Trisomy 13	32 (0.9)	8 (0.8)	<6 (†)	<6 (†)	0 (0.0)
Trisomy 18	68 (1.9)	21 (2.2)	8 (2.4)	7 (3.7)	<6 (†)
Trisomy 21 (Down syndrome)	489 (13.8)	124 (12.7)	59 (18.0)	19 (9.9)	<6 (†)
Turner syndrome	76 (4.4)	20 (4.2)	<6 (†)	<6 (†)	<6 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- <6 (†) denotes censored count and prevalence when 1-5 cases observed
- *- Data for totals include unknown/other race

Michigan

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	2609 (73.8)	774 (79.5)	246 (75.0)	134 (70.1)	20 (62.4)
Total live births	353336	97337	32799	19118	3205
Male Live Births	180607	49293	16821	9774	1648
Female Live Births	172724	48037	15978	9343	1557

Notes

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- 2- Data for this condition include female and unknown infant sexcases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- <6 (†) denotes censored count and prevalence when 1-5 cases observed

*- Data for totals include unknown/other race

Michigan

Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	176 (4.0)	10 (1.2)	186 (3.5)
Trisomy 13	32 (0.7)	16 (1.9)	48 (0.9)
Trisomy 18	67 (1.5)	48 (5.6)	115 (2.2)

Notes

†- <6 (†) denotes censored count and prevalence when 1-5 cases observed

*- Data for totals include unknown/other maternal age

Michigan
Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	461 (10.5)	333 (39.1)	794 (15.1)
Total live births	439711	85162	524873
Notes †- <6 (†) denotes censored count and prevalence when 1-5 cases observed *- Data for totals include unknown/other maternal age			

Minnesota

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	15 (0.7)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)
Anophthalmia / microphthalmia	26 (1.3)	10 (2.6)	5 (1.9)	8 (3.2)	<5 (†)
Anotia / microtia	62 (3)	7 (1.8)	27 (10.3)	18 (7.2)	<5 (†)
Aortic valve stenosis	46 (2.2)	5 (1.3)	<5 (†)	5 (2)	<5 (†)
Atrial septal defect	613 (29.5)	158 (40.7)	93 (35.5)	73 (29.1)	49 (119.8)
Atrioventricular septal defect (Endocardial cushion defect)	96 (4.6)	37 (9.5)	6 (2.3)	7 (2.8)	<5 (†)
Biliary atresia	11 (0.5)	5 (1.3)	<5 (†)	<5 (†)	0 (0.0)
Bladder exstrophy	6 (0.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Choanal atresia	31 (1.5)	<5 (†)	<5 (†)	<5 (†)	<5 (†)
Cleft lip alone	58 (2.8)	16 (4.1)	14 (5.3)	10 (4)	<5 (†)

Notes

1- Data for this condition exclude inlet ventricular septal defect.

2- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 m

3- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000

4- Data for this condition include inlet ventricular septal defect.

5- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Minnesota

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	120 (5.8)	17 (4.4)	20 (7.6)	17 (6.8)	5 (12.2)
Cleft palate alone	156 (7.5)	23 (5.9)	19 (7.2)	28 (11.2)	12 (29.3)
Cloacal extrophy	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Clubfoot	330 (15.9)	61 (15.7)	29 (11.1)	22 (8.8)	9 (22)
Coarctation of the aorta	120 (5.8)	21 (5.4)	11 (4.2)	8 (3.2)	<5 (†)
Common truncus (truncus arteriosus)	8 (0.4)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Congenital cataract	51 (2.5)	19 (4.9)	7 (2.7)	12 (4.8)	<5 (†)
Congenital posterior urethral valves	25 (2.3)	11 (5.6)	<5 (†)	<5 (†)	<5 (†)
Craniosynostosis	201 (9.7)	17 (4.4)	18 (6.9)	6 (2.4)	<5 (†)
Deletion 22q11.2	29 (1.4)	7 (1.8)	<5 (†)	<5 (†)	0 (0.0)
Dextro-Transposition of	68 (3.3)	12 (3.1)	<5 (†)	5 (2)	<5 (†)

Notes

1- Data for this condition exclude inlet ventricular septal defect.

2- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 m

3- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000

4- Data for this condition include inlet ventricular septal defect.

5- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Minnesota

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	68 (3.3)	16 (4.1)	6 (2.3)	5 (2)	0 (0.0)
Double outlet right ventricle	36 (1.7)	18 (4.6)	5 (1.9)	9 (3.6)	<5 (†)
Ebstein anomaly	20 (1)	<5 (†)	<5 (†)	<5 (†)	<5 (†)
Encephalocele	19 (0.9)	<5 (†)	<5 (†)	<5 (†)	<5 (†)
Esophageal atresia / tracheoesophageal fistula	54 (2.6)	8 (2.1)	<5 (†)	<5 (†)	<5 (†)
Gastroschisis	51 (2.5)	9 (2.3)	10 (3.8)	6 (2.4)	<5 (†)
Holoprosencephaly	10 (0.5)	9 (2.3)	5 (1.9)	<5 (†)	<5 (†)
Hypoplastic left heart syndrome	43 (2.1)	12 (3.1)	7 (2.7)	<5 (†)	<5 (†)
Hypospadias	685 (64.3)	174 (88.3)	41 (30.8)	26 (20.2)	8 (38.6)

Notes

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2- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 m

3- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000

4- Data for this condition include inlet ventricular septal defect.

5- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Minnesota

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Interrupted aortic arch	18 (0.9)	5 (1.3)	<5 (†)	<5 (†)	0 (0.0)
Limb deficiencies (reduction defects)	80 (3.8)	24 (6.2)	15 (5.7)	7 (2.8)	<5 (†)
Omphalocele	47 (2.3)	16 (4.1)	<5 (†)	<5 (†)	0 (0.0)
Pulmonary valve atresia	23 (1.1)	8 (2.1)	7 (2.7)	6 (2.4)	<5 (†)
Pulmonary valve atresia and stenosis	292 (14)	76 (19.6)	45 (17.2)	26 (10.4)	<5 (†)
Rectal and large intestinal atresia / stenosis	90 (4.3)	15 (3.9)	17 (6.5)	6 (2.4)	<5 (†)
Renal agenesis / hypoplasia	150 (7.2)	30 (7.7)	18 (6.9)	14 (5.6)	<5 (†)
Single ventricle	8 (0.4)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	66 (3.2)	16 (4.1)	13 (5)	6 (2.4)	<5 (†)

Notes

1- Data for this condition exclude inlet ventricular septal defect.

2- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 m

3- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000

4- Data for this condition include inlet ventricular septal defect.

5- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Minnesota

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Spina bifida without anencephalus	63 (3)	11 (2.8)	5 (1.9)	<5 (†)	<5 (†)
Tetralogy of Fallot	101 (4.9)	11 (2.8)	7 (2.7)	9 (3.6)	<5 (†)
Total anomalous pulmonary venous connection	15 (0.7)	5 (1.3)	5 (1.9)	7 (2.8)	<5 (†)
Transposition of the great arteries (TGA)	79 (3.8)	15 (3.9)	6 (2.3)	5 (2)	<5 (†)
Tricuspid valve atresia	14 (0.7)	6 (1.5)	<5 (†)	<5 (†)	<5 (†)
Tricuspid valve atresia and stenosis	22 (1.1)	12 (3.1)	<5 (†)	<5 (†)	<5 (†)
Trisomy 13	7 (0.3)	10 (2.6)	<5 (†)	<5 (†)	0 (0.0)
Trisomy 18	30 (1.4)	32 (8.2)	<5 (†)	6 (2.4)	0 (0.0)
Trisomy 21 (Down syndrome)	309 (14.9)	102 (26.3)	47 (17.9)	31 (12.3)	10 (24.4)

Notes

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2- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 m

3- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000

4- Data for this condition include inlet ventricular septal defect.

5- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Minnesota

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Turner syndrome	34 (3.4)	5 (2.6)	<5 (†)	6 (4.9)	<5 (†)
Ventricular septal defect	1577 (75.8)	321 (82.8)	205 (78.2)	131 (52.2)	52 (127.1)
Total live births	207947	38788	26210	25107	4091
Male live births	106543	19709	13313	12863	2071
Female live births	101402	19077	12897	12244	2020

Notes

1- Data for this condition exclude inlet ventricular septal defect.

2- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 m

3- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000

4- Data for this condition include inlet ventricular septal defect.

5- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Minnesota

Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	76 (3.1)	<5 (†)	80 (2.6)

Notes

Data for conditions exclude probable and possible cases

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Minnesota
Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 13	11 (0.4)	14 (2.2)	25 (0.8)
Trisomy 18	30 (1.2)	42 (6.5)	72 (2.3)
Trisomy 21 (Down syndrome)	236 (9.5)	276 (42.5)	512 (16.4)
Total live births	247807	64904	312726

Notes

Data for conditions exclude probable and possible cases

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Missouri

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	59 (2.3)	9 (1.7)	<5 (†)	0 (0.0)	0 (0.0)
Anophthalmia / microphthalmia	27 (1.0)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Anotia / microtia	28 (1.1)	6 (1.1)	<5 (†)	0 (0.0)	0 (0.0)
Aortic valve stenosis	47 (1.8)	8 (1.5)	5 (2.2)	<5 (†)	0 (0.0)
Atrial septal defect	4710 (181.0)	1413 (265.1)	427 (185.1)	187 (182.4)	38 (294.8)
Atrioventricular septal defect (endocardial cushion defect)	150 (5.8)	44 (8.3)	11 (4.8)	<5 (†)	0 (0.0)
Biliary atresia	77 (3.0)	56 (10.5)	13 (5.6)	5 (4.9)	<5 (†)
Bladder exstrophy	<5 (†)	<5 (†)	<5 (†)	0 (0.0)	<5 (†)
Choanal atresia	46 (1.8)	8 (1.5)	6 (2.6)	0 (0.0)	<5 (†)
Cleft lip alone (without cleft palate)	115 (4.4)	15 (2.8)	7 (3.0)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Missouri

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	193 (7.4)	28 (5.3)	13 (5.6)	<5 (†)	<5 (†)
Cleft palate alone (without cleft lip)	204 (7.8)	42 (7.9)	17 (7.4)	6 (5.9)	<5 (†)
Cloacal exstrophy	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Clubfoot	745 (28.6)	123 (23.1)	45 (19.5)	22 (21.5)	5 (38.8)
Coarctation of aorta	193 (7.4)	38 (7.1)	18 (7.8)	<5 (†)	0 (0.0)
Common truncus (truncus arteriosus or TA)	16 (0.6)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Congenital cataract	60 (2.3)	16 (3.0)	5 (2.2)	<5 (†)	<5 (†)
Congenital posterior urethral valves	37 (2.8)	13 (4.8)	<5 (†)	<5 (†)	0 (0.0)
Craniosynostosis	325 (12.5)	35 (6.6)	18 (7.8)	11 (10.7)	<5 (†)
Deletion 22q11.2	37 (1.4)	13 (2.4)	<5 (†)	0 (0.0)	0 (0.0)
Dextro-Transposition of	95 (3.7)	13 (2.4)	7 (3.0)	5 (4.9)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Missouri

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	129 (5.0)	36 (6.8)	7 (3.0)	<5 (†)	<5 (†)
Double outlet right ventricle (DORV)	79 (3.0)	21 (3.9)	<5 (†)	<5 (†)	0 (0.0)
Ebstein anomaly	25 (1.0)	6 (1.1)	<5 (†)	0 (0.0)	<5 (†)
Encephalocele	44 (1.7)	7 (1.3)	<5 (†)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	78 (3.0)	12 (2.3)	<5 (†)	<5 (†)	0 (0.0)
Gastroschisis	101 (3.9)	16 (3.0)	12 (5.2)	<5 (†)	<5 (†)
Holoprosencephaly	28 (1.1)	10 (1.9)	<5 (†)	<5 (†)	0 (0.0)
Hypoplastic left heart syndrome	111 (4.3)	30 (5.6)	5 (2.2)	<5 (†)	<5 (†)
Hypospadias	1648 (123.4)	272 (100.4)	87 (74.8)	46 (87.0)	<5 (†)
Interrupted aortic arch (IAA)	22 (0.8)	5 (0.9)	<5 (†)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Missouri

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	137 (5.3)	32 (6.0)	12 (5.2)	7 (6.8)	<5 (†)
Omphalocele	78 (3.0)	17 (3.2)	5 (2.2)	6 (5.9)	<5 (†)
Pulmonary valve atresia	43 (1.7)	12 (2.3)	<5 (†)	<5 (†)	0 (0.0)
Pulmonary valve atresia and stenosis	196 (7.5)	53 (9.9)	19 (8.2)	9 (8.8)	0 (0.0)
Rectal and large intestinal atresia / stenosis	114 (4.4)	21 (3.9)	14 (6.1)	8 (7.8)	<5 (†)
Renal agenesis / hypoplasia	229 (8.8)	50 (9.4)	16 (6.9)	6 (5.9)	<5 (†)
Single ventricle	61 (2.3)	10 (1.9)	5 (2.2)	<5 (†)	0 (0.0)
Small intestinal atresia / stenosis	83 (3.2)	28 (5.3)	14 (6.1)	5 (4.9)	0 (0.0)
Spina bifida without anencephaly	122 (4.7)	18 (3.4)	12 (5.2)	7 (6.8)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Missouri

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	129 (5.0)	38 (7.1)	<5 (†)	7 (6.8)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	29 (1.1)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Transposition of the great arteries (TGA)	103 (4.0)	16 (3.0)	7 (3.0)	5 (4.9)	0 (0.0)
Tricuspid valve atresia	27 (1.0)	5 (0.9)	<5 (†)	<5 (†)	0 (0.0)
Tricuspid valve atresia and stenosis	27 (1.0)	5 (0.9)	<5 (†)	<5 (†)	0 (0.0)
Trisomy 13	23 (0.9)	7 (1.3)	0 (0.0)	<5 (†)	0 (0.0)
Trisomy 18	67 (2.6)	12 (2.3)	8 (3.5)	<5 (†)	0 (0.0)
Trisomy 21 (Down syndrome)	419 (16.1)	79 (14.8)	49 (21.2)	17 (16.6)	<5 (†)
Turner syndrome	66 (5.2)	11 (4.2)	<5 (†)	<5 (†)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Missouri

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White,	Black,	Hispanic,	Asian or	American
	Non-Hispanic	Non-Hispanic	Non-Hispanic	Pacific Islander, Non-Hispanic	Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	1506 (57.9)	333 (62.5)	151 (65.5)	46 (44.9)	<5 (†)
Total live births	260272	53310	23065	10253	1289
Male Live Births	133589	27096	11634	5286	643
Female Live Births	126678	26210	11429	4967	646

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Missouri

Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	129 (4.3)	6 (1.2)	135 (3.8)
Trisomy 13	18 (0.6)	14 (2.7)	32 (0.9)
Trisomy 18	46 (1.5)	47 (9.1)	93 (2.6)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Missouri
Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	311 (10.3)	266 (51.8)	577 (16.4)
Total live births	301442	51370	352884
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Mississippi

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	7 (0.8)	8 (1.1)	<5 (†)	0 (0.0)	0 (0.0)
Anophthalmia / microphthalmia	11 (1.2)	13 (1.7)	0 (0.0)	<5 (†)	0 (0.0)
Anotia / microtia	13 (1.4)	23 (3.1)	5 (5.7)	0 (0.0)	0 (0.0)
Aortic valve stenosis	25 (2.8)	8 (1.1)	<5 (†)	0 (0.0)	<5 (†)
Atrial septal defect	2374 (263.4)	2904 (385.9)	244 (279.4)	38 (171.9)	63 (547.8)
Atrioventricular septal defect (endocardial cushion defect)	52 (5.8)	51 (6.8)	<5 (†)	<5 (†)	0 (0.0)
Biliary atresia	15 (1.7)	18 (2.4)	<5 (†)	<5 (†)	0 (0.0)
Bladder exstrophy	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Choanal atresia	14 (1.6)	10 (1.3)	<5 (†)	0 (0.0)	0 (0.0)
Cleft lip alone (without cleft palate)	54 (6.0)	31 (4.1)	0 (0.0)	<5 (†)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Mississippi

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	56 (6.2)	45 (6.0)	<5 (†)	<5 (†)	7 (60.9)
Cleft palate alone (without cleft lip)	108 (12.0)	54 (7.2)	11 (12.6)	6 (27.1)	10 (87.0)
Cloacal exstrophy	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	216 (24.0)	175 (23.3)	15 (17.2)	<5 (†)	5 (43.5)
Coarctation of aorta	85 (9.4)	67 (8.9)	6 (6.9)	0 (0.0)	<5 (†)
Common truncus (truncus arteriosus or TA)	5 (0.6)	12 (1.6)	0 (0.0)	0 (0.0)	0 (0.0)
Congenital cataract	17 (1.9)	9 (1.2)	0 (0.0)	0 (0.0)	<5 (†)
Congenital posterior urethral valves	16 (3.5)	19 (5.0)	0 (0.0)	0 (0.0)	0 (0.0)
Craniosynostosis	209 (23.2)	108 (14.4)	17 (19.5)	7 (31.7)	0 (0.0)
Deletion 22q11.2	18 (2.0)	16 (2.1)	<5 (†)	0 (0.0)	0 (0.0)
Dextro-Transposition of	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Mississippi

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	24 (2.7)	21 (2.8)	<5 (†)	0 (0.0)	0 (0.0)
Double outlet right ventricle (DORV)	39 (4.3)	27 (3.6)	<5 (†)	<5 (†)	0 (0.0)
Ebstein anomaly	8 (0.9)	9 (1.2)	<5 (†)	0 (0.0)	<5 (†)
Encephalocele	5 (0.6)	18 (2.4)	0 (0.0)	<5 (†)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	23 (2.6)	21 (2.8)	<5 (†)	0 (0.0)	<5 (†)
Gastroschisis	33 (3.7)	30 (4.0)	<5 (†)	0 (0.0)	0 (0.0)
Holoprosencephaly	10 (1.1)	13 (1.7)	0 (0.0)	0 (0.0)	<5 (†)
Hypoplastic left heart syndrome	39 (4.3)	43 (5.7)	<5 (†)	<5 (†)	<5 (†)
Hypospadias	393 (85.3)	294 (77.0)	18 (40.5)	5 (43.1)	<5 (†)
Interrupted aortic arch (IAA)	7 (0.8)	6 (0.8)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Mississippi

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	46 (5.1)	47 (6.2)	5 (5.7)	0 (0.0)	0 (0.0)
Omphalocele	21 (2.3)	25 (3.3)	<5 (†)	0 (0.0)	0 (0.0)
Pulmonary valve atresia	12 (1.3)	21 (2.8)	<5 (†)	0 (0.0)	0 (0.0)
Pulmonary valve atresia and stenosis	81 (9.0)	97 (12.9)	11 (12.6)	<5 (†)	0 (0.0)
Rectal and large intestinal atresia / stenosis	43 (4.8)	33 (4.4)	<5 (†)	0 (0.0)	<5 (†)
Renal agenesis / hypoplasia	63 (7.0)	72 (9.6)	8 (9.2)	<5 (†)	<5 (†)
Single ventricle	20 (2.2)	30 (4.0)	<5 (†)	<5 (†)	0 (0.0)
Small intestinal atresia / stenosis	20 (2.2)	32 (4.3)	5 (5.7)	0 (0.0)	<5 (†)
Spina bifida without anencephaly	52 (5.8)	22 (2.9)	<5 (†)	0 (0.0)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 ma
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Mississippi

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	53 (5.9)	49 (6.5)	9 (10.3)	<5 (†)	<5 (†)
Total anomalous pulmonary venous connection (TAPVC)	6 (0.7)	13 (1.7)	0 (0.0)	0 (0.0)	0 (0.0)
Transposition of the great arteries (TGA)	36 (4.0)	21 (2.8)	5 (5.7)	0 (0.0)	0 (0.0)
Tricuspid valve atresia	9 (1.0)	15 (2.0)	0 (0.0)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	9 (1.0)	15 (2.0)	0 (0.0)	0 (0.0)	0 (0.0)
Trisomy 13	9 (1.0)	8 (1.1)	0 (0.0)	0 (0.0)	0 (0.0)
Trisomy 18	13 (1.4)	11 (1.5)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 21 (Down syndrome)	161 (17.9)	123 (16.3)	35 (40.1)	<5 (†)	<5 (†)
Turner syndrome	22 (5.0)	13 (3.5)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Mississippi

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White,	Black,	Hispanic,	Asian or	American
	Non-Hispanic	Non-Hispanic	Non-Hispanic	Pacific Islander, Non-Hispanic	Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	614 (68.1)	612 (81.3)	87 (99.6)	13 (58.8)	19 (165.2)
Total live births	90115	75259	8733	2211	1150
Male Live Births	46081	38195	4446	1161	583
Female Live Births	44034	37064	4287	1050	567

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Mississippi

Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	56 (3.5)	<5 (†)	67 (3.7)
Trisomy 13	12 (0.8)	<5 (†)	18 (1.0)
Trisomy 18	15 (0.9)	8 (4.1)	25 (1.4)

Notes

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other maternal age

Mississippi
Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	165 (10.3)	99 (51.3)	336 (18.8)
Total live births	159655	19309	178967
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

North Carolina

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	41 (1.3)	15 (1.1)	17 (1.7)	<5 (†)	<5 (†)
Anophthalmia / microphthalmia	32 (1.0)	15 (1.1)	10 (1.0)	<5 (†)	<5 (†)
Anotia / microtia	44 (1.4)	13 (0.9)	59 (5.9)	9 (3.5)	<5 (†)
Aortic valve stenosis	86 (2.7)	24 (1.7)	18 (1.8)	<5 (†)	<5 (†)
Atrial septal defect	1589 (50.1)	873 (62.0)	539 (53.8)	93 (36.2)	58 (75.6)
Atrioventricular septal defect (endocardial cushion defect)	241 (7.6)	145 (10.3)	72 (7.2)	16 (6.2)	5 (6.5)
Biliary atresia	17 (0.5)	17 (1.2)	8 (0.8)	<5 (†)	0 (0.0)
Bladder exstrophy	11 (0.3)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)
Choanal atresia	32 (1.0)	15 (1.1)	12 (1.2)	<5 (†)	<5 (†)
Cleft lip alone (without cleft palate)	111 (3.5)	33 (2.3)	27 (2.7)	9 (3.5)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

North Carolina

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	167 (5.3)	42 (3.0)	53 (5.3)	12 (4.7)	7 (9.1)
Cleft palate alone (without cleft lip)	211 (6.7)	61 (4.3)	51 (5.1)	19 (7.4)	11 (14.3)
Cloacal exstrophy	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Clubfoot	377 (11.9)	124 (8.8)	97 (9.7)	21 (8.2)	9 (11.7)
Coarctation of aorta	166 (5.2)	68 (4.8)	46 (4.6)	<5 (†)	<5 (†)
Common truncus (truncus arteriosus or TA)	16 (0.5)	13 (0.9)	11 (1.1)	0 (0.0)	<5 (†)
Congenital cataract	17 (0.5)	23 (1.6)	7 (0.7)	<5 (†)	0 (0.0)
Congenital posterior urethral valves	28 (1.7)	25 (3.5)	<5 (†)	<5 (†)	<5 (†)
Craniosynostosis	223 (7.0)	38 (2.7)	65 (6.5)	14 (5.5)	5 (6.5)
Deletion 22q11.2	38 (1.2)	21 (1.5)	17 (1.7)	0 (0.0)	<5 (†)
Dextro-Transposition of	123 (3.9)	38 (2.7)	29 (2.9)	<5 (†)	<5 (†)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

North Carolina

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	107 (3.4)	37 (2.6)	33 (3.3)	<5 (†)	5 (6.5)
Double outlet right ventricle (DORV)	53 (1.7)	31 (2.2)	25 (2.5)	<5 (†)	0 (0.0)
Ebstein anomaly	19 (0.6)	10 (0.7)	10 (1.0)	<5 (†)	0 (0.0)
Encephalocele	26 (0.8)	14 (1.0)	7 (0.7)	<5 (†)	<5 (†)
Esophageal atresia / tracheoesophageal fistula	72 (2.3)	28 (2.0)	19 (1.9)	<5 (†)	<5 (†)
Gastroschisis	110 (3.5)	36 (2.6)	46 (4.6)	9 (3.5)	7 (9.1)
Holoprosencephaly	24 (0.8)	18 (1.3)	9 (0.9)	0 (0.0)	<5 (†)
Hypoplastic left heart syndrome	89 (2.8)	51 (3.6)	27 (2.7)	<5 (†)	0 (0.0)
Hypospadias	1153 (70.8)	413 (57.8)	163 (32.0)	70 (53.9)	18 (46.3)
Interrupted aortic arch (IAA)	20 (0.6)	20 (1.4)	10 (1.0)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

North Carolina

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	100 (3.2)	71 (5.0)	47 (4.7)	5 (1.9)	9 (11.7)
Omphalocele	65 (2.1)	42 (3.0)	21 (2.1)	6 (2.3)	<5 (†)
Pulmonary valve atresia	31 (1.0)	25 (1.8)	16 (1.6)	<5 (†)	<5 (†)
Pulmonary valve atresia and stenosis	297 (9.4)	157 (11.2)	83 (8.3)	17 (6.6)	12 (15.7)
Rectal and large intestinal atresia / stenosis	128 (4.0)	46 (3.3)	43 (4.3)	13 (5.1)	<5 (†)
Renal agenesis / hypoplasia	223 (7.0)	101 (7.2)	58 (5.8)	9 (3.5)	<5 (†)
Single ventricle	18 (0.6)	9 (0.6)	11 (1.1)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	100 (3.2)	62 (4.4)	35 (3.5)	6 (2.3)	<5 (†)
Spina bifida without anencephaly	108 (3.4)	23 (1.6)	36 (3.6)	5 (1.9)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

North Carolina

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	162 (5.1)	86 (6.1)	49 (4.9)	17 (6.6)	7 (9.1)
Total anomalous pulmonary venous connection (TAPVC)	47 (1.5)	24 (1.7)	20 (2.0)	<5 (†)	<5 (†)
Transposition of the great arteries (TGA)	131 (4.1)	42 (3.0)	31 (3.1)	<5 (†)	<5 (†)
Tricuspid valve atresia	43 (1.4)	32 (2.3)	15 (1.5)	<5 (†)	<5 (†)
Tricuspid valve atresia and stenosis	55 (1.7)	36 (2.6)	22 (2.2)	<5 (†)	<5 (†)
Trisomy 13	34 (1.1)	24 (1.7)	13 (1.3)	<5 (†)	<5 (†)
Trisomy 18	71 (2.2)	48 (3.4)	34 (3.4)	<5 (†)	<5 (†)
Trisomy 21 (Down syndrome)	354 (11.2)	150 (10.7)	215 (21.5)	30 (11.7)	14 (18.3)
Turner syndrome	49 (3.2)	17 (2.5)	16 (3.3)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

North Carolina

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	1549 (48.9)	713 (50.7)	637 (63.6)	99 (38.6)	39 (50.9)
Total live births	316934	140741	100095	25679	7667
Male Live Births	162872	71464	50902	12996	3887
Female Live Births	154061	69271	49192	12683	3780

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

North Carolina

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	204 (4.1)	9 (0.9)	214 (3.6)
Trisomy 13	46 (0.9)	33 (3.2)	80 (1.3)
Trisomy 18	95 (1.9)	83 (8.1)	178 (3.0)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

North Carolina
Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	360 (7.3)	433 (42.5)	794 (13.3)
Total live births	494499	101982	596503
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Nebraska

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	16 (1.9)	0 (0.0)	5 (2.3)	0 (0.0)	<5 (†)
Anophthalmia / microphthalmia	<5 (†)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Anotia / microtia	23 (2.8)	0 (0.0)	15 (6.8)	0 (0.0)	<5 (†)
Aortic valve stenosis	17 (2.0)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Atrial septal defect	663 (79.6)	72 (90.6)	155 (70.0)	41 (93.7)	12 (86.1)
Atrioventricular septal defect (endocardial cushion defect)	48 (5.8)	7 (8.8)	8 (3.6)	<5 (†)	0 (0.0)
Biliary atresia	7 (0.8)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)
Bladder exstrophy	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Choanal atresia	15 (1.8)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Cleft lip alone (without cleft palate)	73 (8.8)	5 (6.3)	17 (7.7)	<5 (†)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Nebraska

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	70 (8.4)	5 (6.3)	18 (8.1)	<5 (†)	<5 (†)
Cleft palate alone (without cleft lip)	82 (9.9)	6 (7.6)	18 (8.1)	<5 (†)	<5 (†)
Cloacal exstrophy	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	246 (29.6)	22 (27.7)	63 (28.5)	9 (20.6)	5 (35.9)
Coarctation of aorta	81 (9.7)	7 (8.8)	11 (5.0)	<5 (†)	<5 (†)
Common truncus (truncus arteriosus or TA)	6 (0.7)	0 (0.0)	<5 (†)	0 (0.0)	<5 (†)
Congenital cataract	20 (2.4)	<5 (†)	5 (2.3)	<5 (†)	<5 (†)
Congenital posterior urethral valves	14 (3.3)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Craniosynostosis	214 (25.7)	12 (15.1)	36 (16.3)	11 (25.1)	<5 (†)
Deletion 22q11.2	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Dextro-Transposition of	31 (3.7)	<5 (†)	8 (3.6)	<5 (†)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Nebraska

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	36 (4.3)	<5 (†)	10 (4.5)	<5 (†)	<5 (†)
Double outlet right ventricle (DORV)	16 (1.9)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Ebstein anomaly	5 (0.6)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Encephalocele	15 (1.8)	<5 (†)	5 (2.3)	<5 (†)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	25 (3.0)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Gastroschisis	36 (4.3)	<5 (†)	8 (3.6)	<5 (†)	<5 (†)
Holoprosencephaly	16 (1.9)	<5 (†)	5 (2.3)	0 (0.0)	<5 (†)
Hypoplastic left heart syndrome	26 (3.1)	<5 (†)	5 (2.3)	0 (0.0)	0 (0.0)
Hypospadias	405 (95.4)	39 (95.9)	35 (30.8)	8 (35.2)	<5 (†)
Interrupted aortic arch (IAA)	5 (0.6)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Nebraska

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	53 (6.4)	5 (6.3)	12 (5.4)	<5 (†)	0 (0.0)
Omphalocele	25 (3.0)	12 (15.1)	8 (3.6)	0 (0.0)	0 (0.0)
Pulmonary valve atresia	13 (1.6)	0 (0.0)	6 (2.7)	0 (0.0)	0 (0.0)
Pulmonary valve atresia and stenosis	54 (6.5)	5 (6.3)	16 (7.2)	<5 (†)	0 (0.0)
Rectal and large intestinal atresia / stenosis	40 (4.8)	<5 (†)	8 (3.6)	<5 (†)	0 (0.0)
Renal agenesis / hypoplasia	85 (10.2)	7 (8.8)	14 (6.3)	<5 (†)	<5 (†)
Single ventricle	15 (1.8)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	22 (2.6)	<5 (†)	14 (6.3)	0 (0.0)	<5 (†)
Spina bifida without anencephaly	45 (5.4)	<5 (†)	10 (4.5)	0 (0.0)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 ma
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
 *- Data for totals include unknown/other race

Nebraska

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	46 (5.5)	<5 (†)	11 (5.0)	0 (0.0)	<5 (†)
Total anomalous pulmonary venous connection (TAPVC)	8 (1.0)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Transposition of the great arteries (TGA)	31 (3.7)	<5 (†)	10 (4.5)	<5 (†)	0 (0.0)
Tricuspid valve atresia	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 13	15 (1.8)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Trisomy 18	26 (3.1)	<5 (†)	6 (2.7)	<5 (†)	0 (0.0)
Trisomy 21 (Down syndrome)	137 (16.5)	14 (17.6)	59 (26.6)	8 (18.3)	8 (57.4)
Turner syndrome	15 (3.7)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Nebraska

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
					American Indian or Alaskan Native, Non-Hispanic
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	
Ventricular septal defect	519 (62.3)	48 (60.4)	146 (65.9)	19 (43.4)	6 (43.1)
Total live births	83246	7946	22141	4376	1393
Male Live Births	42433	4065	11347	2273	706
Female Live Births	40811	3881	10794	2103	687

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Nebraska

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	48 (4.6)	<5 (†)	51 (4.1)
Trisomy 13	15 (1.4)	8 (4.0)	23 (1.9)
Trisomy 18	26 (2.5)	13 (6.6)	39 (3.2)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Nebraska

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	124 (12.0)	109 (55.0)	233 (18.9)
Total live births	103668	19819	123488
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

New Jersey

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	5 (0.2)	<5 (†)	15 (1.1)	0 (0.0)	0 (0.0)
Anophthalmia / microphthalmia	15 (0.7)	<5 (†)	12 (0.9)	<5 (†)	0 (0.0)
Anotia / microtia	28 (1.2)	<5 (†)	62 (4.5)	15 (2.8)	0 (0.0)
Aortic valve stenosis	32 (1.4)	7 (1.1)	8 (0.6)	<5 (†)	0 (0.0)
Atrial septal defect	488 (21.6)	464 (71.3)	536 (38.7)	120 (22.3)	<5 (†)
Atrioventricular septal defect (endocardial cushion defect)	43 (1.9)	22 (3.4)	39 (2.8)	6 (1.1)	0 (0.0)
Biliary atresia	9 (0.4)	<5 (†)	5 (0.4)	5 (0.9)	0 (0.0)
Bladder exstrophy	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Choanal atresia	25 (1.1)	7 (1.1)	11 (0.8)	<5 (†)	0 (0.0)
Cleft lip alone (without cleft palate)	66 (2.9)	9 (1.4)	19 (1.4)	9 (1.7)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

New Jersey

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	91 (4.0)	15 (2.3)	85 (6.1)	17 (3.2)	0 (0.0)
Cleft palate alone (without cleft lip)	121 (5.3)	33 (5.1)	82 (5.9)	25 (4.7)	0 (0.0)
Cloacal exstrophy	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	284 (12.5)	74 (11.4)	169 (12.2)	46 (8.6)	<5 (†)
Coarctation of aorta	40 (1.8)	23 (3.5)	37 (2.7)	8 (1.5)	0 (0.0)
Common truncus (truncus arteriosus or TA)	<5 (†)	<5 (†)	6 (0.4)	0 (0.0)	0 (0.0)
Congenital cataract	25 (1.1)	9 (1.4)	11 (0.8)	7 (1.3)	0 (0.0)
Congenital posterior urethral valves	16 (1.4)	14 (4.2)	10 (1.4)	9 (3.2)	0 (0.0)
Craniosynostosis	153 (6.8)	34 (5.2)	78 (5.6)	13 (2.4)	0 (0.0)
Deletion 22q11.2	15 (0.7)	<5 (†)	7 (0.5)	<5 (†)	0 (0.0)
Dextro-Transposition of	16 (0.7)	9 (1.4)	16 (1.2)	5 (0.9)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

New Jersey

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	42 (1.9)	10 (1.5)	41 (3.0)	7 (1.3)	<5 (†)
Double outlet right ventricle (DORV)	17 (0.8)	14 (2.2)	13 (0.9)	<5 (†)	0 (0.0)
Ebstein anomaly	5 (0.2)	0 (0.0)	5 (0.4)	<5 (†)	0 (0.0)
Encephalocele	6 (0.3)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	59 (2.6)	15 (2.3)	32 (2.3)	10 (1.9)	<5 (†)
Gastroschisis	24 (1.1)	10 (1.5)	40 (2.9)	0 (0.0)	0 (0.0)
Holoprosencephaly	8 (0.4)	<5 (†)	13 (0.9)	<5 (†)	0 (0.0)
Hypoplastic left heart syndrome	27 (1.2)	11 (1.7)	24 (1.7)	<5 (†)	0 (0.0)
Hypospadias	1150 (98.9)	280 (84.8)	382 (54.2)	162 (58.3)	<5 (†)
Interrupted aortic arch (IAA)	5 (0.2)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

New Jersey

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	41 (1.8)	14 (2.2)	37 (2.7)	8 (1.5)	0 (0.0)
Omphalocele	18 (0.8)	25 (3.8)	16 (1.2)	<5 (†)	0 (0.0)
Pulmonary valve atresia	<5 (†)	<5 (†)	5 (0.4)	<5 (†)	0 (0.0)
Pulmonary valve atresia and stenosis	110 (4.9)	94 (14.4)	101 (7.3)	26 (4.8)	0 (0.0)
Rectal and large intestinal atresia / stenosis	51 (2.3)	26 (4.0)	44 (3.2)	15 (2.8)	0 (0.0)
Renal agenesis / hypoplasia	140 (6.2)	28 (4.3)	96 (6.9)	18 (3.4)	0 (0.0)
Single ventricle	<5 (†)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Small intestinal atresia / stenosis	46 (2.0)	20 (3.1)	40 (2.9)	7 (1.3)	0 (0.0)
Spina bifida without anencephaly	27 (1.2)	11 (1.7)	35 (2.5)	7 (1.3)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 ma
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

New Jersey

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	71 (3.1)	36 (5.5)	45 (3.2)	14 (2.6)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	13 (0.6)	<5 (†)	14 (1.0)	<5 (†)	0 (0.0)
Transposition of the great arteries (TGA)	21 (0.9)	10 (1.5)	18 (1.3)	5 (0.9)	0 (0.0)
Tricuspid valve atresia	<5 (†)	<5 (†)	6 (0.4)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	<5 (†)	<5 (†)	6 (0.4)	0 (0.0)	0 (0.0)
Trisomy 13	17 (0.8)	6 (0.9)	11 (0.8)	0 (0.0)	<5 (†)
Trisomy 18	13 (0.6)	12 (1.8)	22 (1.6)	<5 (†)	0 (0.0)
Trisomy 21 (Down syndrome)	199 (8.8)	80 (12.3)	239 (17.2)	26 (4.8)	0 (0.0)
Turner syndrome	20 (1.8)	6 (1.9)	17 (2.5)	<5 (†)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

New Jersey

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White,	Black,	Hispanic,	Asian or	American
	Non-Hispanic	Non-Hispanic	Non-Hispanic	Pacific Islander, Non-Hispanic	Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	1004 (44.4)	318 (48.9)	817 (58.9)	169 (31.5)	<5 (†)
Total live births	226318	65095	138633	53704	262
Male Live Births	116294	33009	70424	27805	139
Female Live Births	110022	32083	68203	25897	123

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

New Jersey

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	72 (2.0)	<5 (†)	77 (1.5)
Trisomy 13	17 (0.5)	18 (1.3)	36 (0.7)
Trisomy 18	14 (0.4)	34 (2.5)	50 (1.0)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

New Jersey
Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	190 (5.2)	350 (26.1)	559 (11.1)
Total live births	367493	134334	501840
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

New York

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	21 (0.4)	5 (0.3)	14 (0.6)	0 (0.0)	0 (0.0)
Anophthalmia / microphthalmia	8 (0.6)	<5 (†)	5 (0.5)	<5 (†)	0 (0.0)
Anotia / microtia	12 (0.9)	<5 (†)	16 (1.7)	<5 (†)	0 (0.0)
Aortic valve stenosis	83 (1.6)	19 (1.3)	38 (1.6)	12 (1.1)	0 (0.0)
Atrial septal defect	6997 (132.6)	4050 (273.9)	4800 (196.1)	1748 (160.2)	25 (140.7)
Atrioventricular septal defect (endocardial cushion defect)	249 (4.7)	145 (9.8)	216 (8.8)	43 (3.9)	<5 (†)
Biliary atresia	80 (1.5)	91 (6.2)	83 (3.4)	31 (2.8)	0 (0.0)
Bladder exstrophy	14 (0.3)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Choanal atresia	131 (2.5)	32 (2.2)	41 (1.7)	11 (1.0)	0 (0.0)
Cleft lip alone (without cleft palate)	35 (2.5)	5 (0.9)	21 (2.3)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

New York

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	47 (3.3)	5 (0.9)	26 (2.8)	<5 (†)	<5 (†)
Cleft palate alone (without cleft lip)	53 (3.8)	12 (2.2)	29 (3.1)	8 (5.2)	0 (0.0)
Cloacal exstrophy	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Clubfoot	950 (18.0)	312 (21.1)	507 (20.7)	161 (14.8)	<5 (†)
Coarctation of aorta	33 (2.3)	11 (2.1)	17 (1.8)	<5 (†)	0 (0.0)
Common truncus (truncus arteriosus or TA)	5 (0.4)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Congenital cataract	19 (1.7)	<5 (†)	9 (1.2)	<5 (†)	0 (0.0)
Congenital posterior urethral valves	73 (2.7)	33 (4.4)	38 (3.1)	14 (2.5)	<5 (†)
Craniosynostosis	637 (12.1)	183 (12.4)	378 (15.4)	118 (10.8)	<5 (†)
Deletion 22q11.2	92 (1.7)	41 (2.8)	67 (2.7)	25 (2.3)	0 (0.0)
Dextro-Transposition of	21 (1.5)	8 (1.5)	6 (0.7)	<5 (†)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

New York

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	23 (1.6)	6 (1.1)	14 (1.5)	<5 (†)	0 (0.0)
Double outlet right ventricle (DORV)	163 (3.1)	66 (4.5)	93 (3.8)	37 (3.4)	<5 (†)
Ebstein anomaly	44 (0.8)	12 (0.8)	30 (1.2)	11 (1.0)	0 (0.0)
Encephalocele	38 (0.7)	17 (1.1)	30 (1.2)	8 (0.7)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	32 (2.3)	13 (2.4)	10 (1.1)	<5 (†)	<5 (†)
Gastroschisis	20 (1.4)	5 (0.9)	30 (3.3)	0 (0.0)	0 (0.0)
Holoprosencephaly	<5 (†)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Hypoplastic left heart syndrome	17 (1.2)	7 (1.3)	<5 (†)	<5 (†)	0 (0.0)
Hypospadias	2975 (110.2)	707 (94.1)	889 (71.6)	410 (72.9)	5 (54.7)
Interrupted aortic arch (IAA)	44 (0.8)	18 (1.2)	18 (0.7)	8 (0.7)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

New York

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	146 (2.8)	57 (3.9)	80 (3.3)	17 (1.6)	<5 (†)
Omphalocele	73 (1.4)	55 (3.7)	61 (2.5)	17 (1.6)	0 (0.0)
Pulmonary valve atresia	8 (0.6)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Rectal and large intestinal atresia / stenosis	207 (3.9)	67 (4.5)	136 (5.6)	43 (3.9)	<5 (†)
Renal agenesis / hypoplasia	448 (8.5)	137 (9.3)	193 (7.9)	52 (4.8)	0 (0.0)
Single ventricle	62 (1.2)	38 (2.6)	47 (1.9)	11 (1.0)	0 (0.0)
Small intestinal atresia / stenosis	210 (4.0)	80 (5.4)	123 (5.0)	45 (4.1)	<5 (†)
Spina bifida without anencephaly	23 (1.6)	<5 (†)	17 (1.8)	<5 (†)	0 (0.0)
Tetralogy of Fallot (TOF)	26 (1.8)	19 (3.6)	18 (2.0)	6 (3.9)	<5 (†)
Total anomalous pulmonary venous	6 (0.4)	<5 (†)	5 (0.5)	0 (0.0)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

New York

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
connection (TAPVC)					
Tricuspid valve atresia and stenosis	7 (0.5)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Trisomy 13	35 (0.7)	12 (0.8)	13 (0.5)	6 (0.6)	0 (0.0)
Trisomy 18	45 (0.9)	42 (2.8)	46 (1.9)	<5 (†)	0 (0.0)
Trisomy 21 (Down syndrome)	612 (11.6)	246 (16.6)	419 (17.1)	61 (5.6)	<5 (†)
Turner syndrome	71 (2.8)	25 (3.4)	49 (4.1)	16 (3.0)	0 (0.0)
Ventricular septal defect	3305 (62.6)	1003 (67.8)	1892 (77.3)	624 (57.2)	10 (56.3)
Total live births	527788	147847	244733	109086	1777
Male Live Births	269986	75132	124218	56260	914
Female Live Births	257802	72715	120515	52826	863

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

New York Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	70 (2.9)	<5 (†)	74 (2.3)
Trisomy 13	36 (0.5)	34 (1.2)	72 (0.7)
Trisomy 18	54 (0.7)	81 (2.9)	140 (1.3)
Trisomy 21 (Down syndrome)	531 (6.7)	823 (29.9)	1418 (13.3)
Total live births	241583	73823	315407

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

New York Notes on Specific Birth Defects

Defect	Site Comment
Anencephaly	passive surveillance, statewide
Spina bifida without anencephaly	confirmed with medical record review, from 14 county sub region
Encephalocele	passive surveillance, statewide
Anophthalmia / microphthalmia	confirmed with medical record review, from 14 county sub region
Congenital cataract	confirmed with medical record review, from 14 county sub region
Anotia / microtia	confirmed with medical record review, from 14 county sub region

New York

Notes on Specific Birth Defects

Defect	Site Comment
Common truncus (truncus arteriosus or TA)	confirmed with medical record review, from 14 county sub region
Dextro- Transposition of great arteries (d- TGA)	confirmed with medical record review, from 14 county sub region
Tetralogy of Fallot (TOF)	confirmed with medical record review, from 14 county sub region
Ventricular septal defect	passive surveillance, statewide
Atrial septal defect	passive surveillance, statewide
Atrioventricular septal defect (endocardial cushion defect)	passive surveillance, statewide
Pulmonary valve atresia	confirmed with medical record review, from 14 county sub region
Tricuspid valve atresia and stenosis	confirmed with medical record review, from 14 county sub region
Ebstein anomaly	passive surveillance, statewide
Aortic valve stenosis	passive surveillance, statewide
Hypoplastic left heart syndrome	confirmed with medical record review, from 14 county sub region
Coarctation of aorta	confirmed with medical record review, from 14 county sub region
Total anomalous pulmonary venous	confirmed with medical record review, from 14 county sub region

New York

Notes on Specific Birth Defects

Defect	Site Comment
connection (TAPVC)	
Cleft palate alone (without cleft lip)	confirmed with medical record review, from 14 county sub region
Choanal atresia	passive surveillance, statewide
Esophageal atresia / tracheoesophageal fistula	confirmed with medical record review, from 14 county sub region
Rectal and large intestinal atresia / stenosis	passive surveillance, statewide
Biliary atresia	passive surveillance, statewide
Renal agenesis / hypoplasia	passive surveillance, statewide
Bladder exstrophy	passive surveillance, statewide
Gastroschisis	confirmed with medical record review, from 14 county sub region
Omphalocele	passive surveillance, statewide
Diaphragmatic hernia	confirmed with medical record review, from 14 county sub region
Trisomy 13	passive surveillance, statewide
Trisomy 21 (Down syndrome)	passive surveillance, statewide
Trisomy 18	passive surveillance, statewide
Hypospadias	passive surveillance, statewide
Turner syndrome	passive surveillance, statewide
Deletion 22q11.2	passive surveillance, statewide

New York

Notes on Specific Birth Defects

Defect	Site Comment
Limb deficiencies (reduction defects)	passive surveillance, statewide
Craniosynostosis	passive surveillance, statewide
Clubfoot	passive surveillance, statewide
Congenital posterior urethral valves	passive surveillance, statewide
Cloacal exstrophy	passive surveillance, statewide
Small intestinal atresia / stenosis	passive surveillance, statewide
Cleft lip alone (without cleft palate)	confirmed with medical record review, from 14 county sub region
Cleft lip with cleft palate	confirmed with medical record review, from 14 county sub region
Single ventricle	passive surveillance, statewide
Interrupted aortic arch (IAA)	passive surveillance, statewide
Double outlet right ventricle (DORV)	passive surveillance, statewide
Holoprosencephaly	confirmed with medical record review, from 14 county sub region

Ohio

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	33 (0.7)	7 (0.7)	<5 (†)	<5 (†)	0 (0.0)
Anophthalmia / microphthalmia	102 (2.2)	25 (2.3)	9 (2.2)	<5 (†)	0 (0.0)
Anotia / microtia	7 (0.1)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)
Aortic valve stenosis	135 (2.9)	12 (1.1)	10 (2.5)	<5 (†)	0 (0.0)
Biliary atresia	103 (2.2)	60 (5.6)	7 (1.7)	5 (2.4)	0 (0.0)
Choanal atresia	130 (2.8)	23 (2.1)	9 (2.2)	0 (0.0)	0 (0.0)
Cleft lip alone (without cleft palate)	130 (2.8)	16 (1.5)	9 (2.2)	5 (2.4)	0 (0.0)
Cleft lip with cleft palate	321 (6.9)	50 (4.7)	29 (7.2)	19 (9.2)	0 (0.0)
Cleft palate alone (without cleft lip)	614 (13.1)	71 (6.6)	31 (7.7)	18 (8.7)	<5 (†)
Clubfoot	386 (8.3)	71 (6.6)	31 (7.7)	9 (4.4)	0 (0.0)
Coarctation of aorta	370 (7.9)	67 (6.3)	21 (5.2)	13 (6.3)	0 (0.0)

Notes

- 1- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f
- 2- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Ohio

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Common truncus (truncus arteriosus or TA)	60 (1.3)	14 (1.3)	5 (1.2)	<5 (†)	0 (0.0)
Congenital cataract	187 (4.0)	53 (5.0)	21 (5.2)	13 (6.3)	0 (0.0)
Deletion 22q11.2	117 (2.5)	16 (1.5)	5 (1.2)	<5 (†)	0 (0.0)
Dextro- Transposition of great arteries (d- TGA)	171 (3.7)	36 (3.4)	10 (2.5)	8 (3.9)	0 (0.0)
Diaphragmatic hernia	250 (5.3)	62 (5.8)	18 (4.5)	9 (4.4)	0 (0.0)
Encephalocele	44 (0.9)	17 (1.6)	7 (1.7)	<5 (†)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	144 (3.1)	35 (3.3)	13 (3.2)	8 (3.9)	0 (0.0)
Gastroschisis	204 (4.4)	35 (3.3)	11 (2.7)	0 (0.0)	<5 (†)
Holoprosencephaly	48 (1.0)	11 (1.0)	<5 (†)	<5 (†)	0 (0.0)
Hypoplastic left heart syndrome	131 (2.8)	26 (2.4)	8 (2.0)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f
- 2- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Ohio

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Omphalocele	93 (2.0)	43 (4.0)	7 (1.7)	<5 (†)	0 (0.0)
Pulmonary valve atresia	47 (1.0)	10 (0.9)	8 (2.0)	<5 (†)	0 (0.0)
Pulmonary valve atresia and stenosis	47 (1.0)	10 (0.9)	8 (2.0)	<5 (†)	0 (0.0)
Rectal and large intestinal atresia / stenosis	209 (4.5)	61 (5.7)	21 (5.2)	14 (6.8)	0 (0.0)
Renal agenesis / hypoplasia	467 (10.0)	130 (12.1)	41 (10.2)	15 (7.3)	<5 (†)
Spina bifida without anencephaly	220 (4.7)	27 (2.5)	18 (4.5)	<5 (†)	0 (0.0)
Tetralogy of Fallot (TOF)	242 (5.2)	60 (5.6)	27 (6.7)	8 (3.9)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	48 (1.0)	17 (1.6)	<5 (†)	<5 (†)	0 (0.0)
Transposition of the great arteries	182 (3.9)	36 (3.4)	10 (2.5)	8 (3.9)	0 (0.0)

Notes

1- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f

2- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Ohio

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
(TGA)					
Tricuspid valve atresia	33 (0.7)	6 (0.6)	<5 (†)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	33 (0.7)	6 (0.6)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 13	31 (0.7)	6 (0.6)	5 (1.2)	<5 (†)	0 (0.0)
Trisomy 18	66 (1.4)	36 (3.4)	7 (1.7)	<5 (†)	0 (0.0)
Trisomy 21 (Down syndrome)	616 (13.2)	156 (14.6)	83 (20.7)	23 (11.1)	0 (0.0)
Turner syndrome	117 (5.1)	16 (3.0)	10 (5.1)	<5 (†)	0 (0.0)
Total live births	467697	107033	40122	20669	482
Male Live Births	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Female Live Births	228646	52625	19645	10081	218

Notes

- 1- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f
- 2- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Ohio

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	252 (4.5)	11 (1.1)	264 (4.0)
Trisomy 13	30 (0.5)	14 (1.4)	44 (0.7)
Trisomy 18	61 (1.1)	55 (5.5)	116 (1.8)
Trisomy 21 (Down syndrome)	493 (8.9)	414 (41.2)	908 (13.8)
Total live births	556962	100388	657350

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Oklahoma

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	33 (2.5)	<5 (†)	10 (2.5)	<5 (†)	9 (4.0)
Anophthalmia / microphthalmia	21 (1.6)	6 (3.1)	8 (2.0)	<5 (†)	6 (2.7)
Anotia / microtia	26 (1.9)	<5 (†)	21 (5.3)	6 (8.4)	10 (4.4)
Aortic valve stenosis	42 (3.1)	<5 (†)	11 (2.8)	<5 (†)	9 (4.0)
Atrial septal defect	245 (18.2)	39 (19.8)	66 (16.6)	10 (14.0)	52 (23.1)
Atrioventricular septal defect (endocardial cushion defect)	85 (6.3)	18 (9.2)	33 (8.3)	6 (8.4)	14 (6.2)
Biliary atresia	11 (0.8)	<5 (†)	<5 (†)	<5 (†)	<5 (†)
Bladder exstrophy	<5 (†)	<5 (†)	<5 (†)	0 (0.0)	<5 (†)
Choanal atresia	49 (3.6)	<5 (†)	8 (2.0)	<5 (†)	5 (2.2)
Cleft lip alone (without cleft palate)	52 (3.9)	8 (4.1)	16 (4.0)	<5 (†)	7 (3.1)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Oklahoma

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	113 (8.4)	11 (5.6)	29 (7.3)	6 (8.4)	26 (11.5)
Cleft palate alone (without cleft lip)	113 (8.4)	9 (4.6)	19 (4.8)	7 (9.8)	30 (13.3)
Cloacal exstrophy	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)	<5 (†)
Clubfoot	276 (20.5)	43 (21.9)	71 (17.9)	14 (19.6)	46 (20.4)
Coarctation of aorta	107 (8.0)	14 (7.1)	21 (5.3)	<5 (†)	18 (8.0)
Common truncus (truncus arteriosus or TA)	13 (1.0)	<5 (†)	<5 (†)	<5 (†)	<5 (†)
Congenital cataract	29 (2.2)	<5 (†)	<5 (†)	0 (0.0)	7 (3.1)
Congenital posterior urethral valves	15 (2.2)	5 (5.0)	<5 (†)	<5 (†)	5 (4.3)
Craniosynostosis	115 (8.5)	13 (6.6)	21 (5.3)	<5 (†)	22 (9.8)
Deletion 22q11.2	16 (1.2)	6 (3.1)	9 (2.3)	0 (0.0)	<5 (†)
Dextro-Transposition of	47 (3.5)	<5 (†)	11 (2.8)	<5 (†)	9 (4.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Oklahoma

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	45 (3.3)	10 (5.1)	18 (4.5)	8 (11.2)	14 (6.2)
Double outlet right ventricle (DORV)	41 (3.0)	9 (4.6)	16 (4.0)	<5 (†)	8 (3.6)
Ebstein anomaly	12 (0.9)	<5 (†)	<5 (†)	<5 (†)	<5 (†)
Encephalocele	19 (1.4)	<5 (†)	<5 (†)	<5 (†)	<5 (†)
Esophageal atresia / tracheoesophageal fistula	41 (3.0)	<5 (†)	7 (1.8)	<5 (†)	11 (4.9)
Gastroschisis	78 (5.8)	10 (5.1)	20 (5.0)	0 (0.0)	11 (4.9)
Holoprosencephaly	17 (1.3)	7 (3.6)	6 (1.5)	0 (0.0)	<5 (†)
Hypoplastic left heart syndrome	48 (3.6)	5 (2.5)	6 (1.5)	<5 (†)	6 (2.7)
Hypospadias	431 (62.6)	79 (78.6)	66 (32.4)	18 (48.6)	91 (78.8)
Interrupted aortic arch (IAA)	12 (0.9)	<5 (†)	<5 (†)	<5 (†)	<5 (†)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Oklahoma

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	86 (6.4)	19 (9.7)	12 (3.0)	5 (7.0)	22 (9.8)
Omphalocele	36 (2.7)	12 (6.1)	5 (1.3)	0 (0.0)	8 (3.6)
Pulmonary valve atresia	39 (2.9)	5 (2.5)	11 (2.8)	<5 (†)	5 (2.2)
Pulmonary valve atresia and stenosis	128 (9.5)	26 (13.2)	39 (9.8)	<5 (†)	27 (12.0)
Rectal and large intestinal atresia / stenosis	92 (6.8)	10 (5.1)	31 (7.8)	6 (8.4)	25 (11.1)
Renal agenesis / hypoplasia	131 (9.7)	15 (7.6)	30 (7.6)	5 (7.0)	33 (14.6)
Single ventricle	7 (0.5)	<5 (†)	<5 (†)	<5 (†)	<5 (†)
Small intestinal atresia / stenosis	40 (3.0)	9 (4.6)	17 (4.3)	<5 (†)	15 (6.7)
Spina bifida without anencephaly	60 (4.5)	<5 (†)	15 (3.8)	<5 (†)	7 (3.1)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 ma
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Oklahoma

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	63 (4.7)	7 (3.6)	21 (5.3)	<5 (†)	10 (4.4)
Total anomalous pulmonary venous connection (TAPVC)	18 (1.3)	<5 (†)	9 (2.3)	<5 (†)	5 (2.2)
Transposition of the great arteries (TGA)	53 (3.9)	<5 (†)	12 (3.0)	<5 (†)	10 (4.4)
Tricuspid valve atresia	13 (1.0)	<5 (†)	<5 (†)	0 (0.0)	<5 (†)
Tricuspid valve atresia and stenosis	22 (1.6)	6 (3.1)	8 (2.0)	<5 (†)	5 (2.2)
Trisomy 13	10 (0.7)	<5 (†)	7 (1.8)	<5 (†)	<5 (†)
Trisomy 18	34 (2.5)	11 (5.6)	17 (4.3)	<5 (†)	<5 (†)
Trisomy 21 (Down syndrome)	176 (13.1)	23 (11.7)	72 (18.1)	12 (16.8)	32 (14.2)
Turner syndrome	18 (2.7)	<5 (†)	6 (3.1)	0 (0.0)	6 (5.5)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Oklahoma

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White,	Black,	Hispanic,	Asian or	American
	Non-Hispanic	Non-Hispanic	Non-Hispanic	Pacific Islander, Non-Hispanic	Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	765 (56.9)	134 (68.1)	251 (63.2)	51 (71.3)	191 (84.8)
Total live births	134509	19666	39703	7148	22535
Male Live Births	68828	10053	20351	3701	11550
Female Live Births	65680	9613	19351	2916	10985

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Oklahoma

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	116 (5.4)	<5 (†)	119 (4.9)
Trisomy 13	17 (0.8)	7 (2.3)	24 (1.0)
Trisomy 18	33 (1.5)	36 (11.9)	69 (2.8)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Oklahoma Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	158 (7.4)	158 (52.2)	316 (13.0)
Total live births	212967	30260	243287
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Oklahoma Notes on Specific Birth Defects

Defect	Site Comment
Universal comment	Denominator data obtained from OK2SHARE. OK2SHARE data is intended to support evidence-based decision making for public health in Oklahoma, to plan and improve service delivery, evaluate health care systems, inform policy decisions, and aid in research. Other uses or disclosures are not permitted. The purpose of the interactive Oklahoma State Department of Health (OSDH) OK2SHARE Service databases is to support the information needs of the Oklahoma State Department of Health and other users such as health officials, educators, and students in improving service delivery, evaluating health care systems, and monitoring the health of the people of Oklahoma. These databases may be used only for the purpose for which they are provided and may not be used in any way that would violate the HIPAA Privacy Rule External Link. Any effort to

Oklahoma	
Notes on Specific Birth Defects	
Defect	Site Comment
	determine the identity of any reported cases, or to use the information for any purpose other than for statistical reporting and analysis, is prohibited.

Oregon

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	10 (0.8)	<10 (†)	<10 (†)	<10 (†)	0 (0.0)
Anophthalmia / microphthalmia	21 (1.6)	<10 (†)	11 (2.8)	<10 (†)	0 (0.0)
Anotia / microtia	58 (4.4)	<10 (†)	37 (9.3)	<10 (†)	<10 (†)
Aortic valve stenosis	51 (3.8)	<10 (†)	16 (4.0)	<10 (†)	0 (0.0)
Atrial septal defect	2292 (173.0)	151 (243.6)	783 (197.1)	174 (128.5)	58 (235.9)
Atrioventricular septal defect (endocardial cushion defect)	68 (5.1)	<10 (†)	31 (7.8)	<10 (†)	0 (0.0)
Biliary atresia	18 (1.4)	<10 (†)	13 (3.3)	0 (0.0)	<10 (†)
Bladder exstrophy	<10 (†)	0 (0.0)	<10 (†)	0 (0.0)	0 (0.0)
Choanal atresia	27 (2.0)	0 (0.0)	12 (3.0)	<10 (†)	0 (0.0)
Cleft lip alone (without cleft palate)	34 (2.6)	0 (0.0)	<10 (†)	<10 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <10 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Oregon

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	93 (7.0)	<10 (†)	26 (6.5)	<10 (†)	<10 (†)
Cleft palate alone (without cleft lip)	142 (10.7)	<10 (†)	42 (10.6)	14 (10.3)	<10 (†)
Cloacal exstrophy	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	381 (28.8)	14 (22.6)	124 (31.2)	20 (14.8)	12 (48.8)
Coarctation of aorta	106 (8.0)	<10 (†)	39 (9.8)	12 (8.9)	0 (0.0)
Common truncus (truncus arteriosus or TA)	<10 (†)	<10 (†)	<10 (†)	<10 (†)	<10 (†)
Congenital cataract	40 (3.0)	<10 (†)	14 (3.5)	<10 (†)	0 (0.0)
Congenital posterior urethral valves	16 (2.4)	<10 (†)	<10 (†)	<10 (†)	0 (0.0)
Craniosynostosis	386 (29.1)	15 (24.2)	128 (32.2)	26 (19.2)	<10 (†)
Deletion 22q11.2	18 (1.4)	<10 (†)	<10 (†)	0 (0.0)	0 (0.0)
Dextro-Transposition of	54 (4.1)	<10 (†)	18 (4.5)	<10 (†)	<10 (†)

Notes

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2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

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*- Data for totals include unknown/other race

Oregon

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	51 (3.8)	<10 (†)	22 (5.5)	<10 (†)	<10 (†)
Double outlet right ventricle (DORV)	17 (1.3)	<10 (†)	13 (3.3)	<10 (†)	0 (0.0)
Ebstein anomaly	<10 (†)	0 (0.0)	0 (0.0)	<10 (†)	<10 (†)
Encephalocele	18 (1.4)	<10 (†)	<10 (†)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	36 (2.7)	<10 (†)	16 (4.0)	<10 (†)	0 (0.0)
Gastroschisis	47 (3.5)	<10 (†)	20 (5.0)	<10 (†)	<10 (†)
Holoprosencephaly	<10 (†)	0 (0.0)	<10 (†)	0 (0.0)	0 (0.0)
Hypoplastic left heart syndrome	34 (2.6)	<10 (†)	15 (3.8)	<10 (†)	0 (0.0)
Hypospadias	590 (86.9)	33 (102.5)	95 (46.9)	43 (62.3)	10 (80.3)
Interrupted aortic arch (IAA)	11 (0.8)	<10 (†)	<10 (†)	0 (0.0)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <10 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Oregon

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	75 (5.7)	<10 (†)	26 (6.5)	<10 (†)	<10 (†)
Omphalocele	53 (4.0)	<10 (†)	20 (5.0)	<10 (†)	<10 (†)
Pulmonary valve atresia	25 (1.9)	<10 (†)	10 (2.5)	0 (0.0)	0 (0.0)
Pulmonary valve atresia and stenosis	141 (10.6)	<10 (†)	56 (14.1)	<10 (†)	<10 (†)
Rectal and large intestinal atresia / stenosis	67 (5.1)	<10 (†)	26 (6.5)	<10 (†)	<10 (†)
Renal agenesis / hypoplasia	121 (9.1)	<10 (†)	38 (9.6)	14 (10.3)	<10 (†)
Single ventricle	21 (1.6)	<10 (†)	12 (3.0)	<10 (†)	0 (0.0)
Small intestinal atresia / stenosis	45 (3.4)	<10 (†)	18 (4.5)	<10 (†)	<10 (†)
Spina bifida without anencephaly	67 (5.1)	<10 (†)	24 (6.0)	<10 (†)	<10 (†)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <10 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Oregon

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	69 (5.2)	<10 (†)	24 (6.0)	<10 (†)	<10 (†)
Total anomalous pulmonary venous connection (TAPVC)	<10 (†)	0 (0.0)	10 (2.5)	<10 (†)	0 (0.0)
Transposition of the great arteries (TGA)	58 (4.4)	<10 (†)	21 (5.3)	<10 (†)	<10 (†)
Tricuspid valve atresia and stenosis	19 (1.4)	<10 (†)	<10 (†)	<10 (†)	0 (0.0)
Trisomy 13	18 (1.4)	<10 (†)	<10 (†)	0 (0.0)	0 (0.0)
Trisomy 18	21 (1.6)	<10 (†)	<10 (†)	<10 (†)	0 (0.0)
Trisomy 21 (Down syndrome)	197 (14.9)	12 (19.4)	78 (19.6)	17 (12.6)	<10 (†)
Turner syndrome	21 (3.3)	<10 (†)	<10 (†)	<10 (†)	0 (0.0)
Ventricular septal defect	974 (73.5)	54 (87.1)	375 (94.4)	72 (53.2)	23 (93.5)
Total live births	132516	6198	39719	13536	2459

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <10 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Oregon

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Male Live Births	67869	3219	20236	6901	1246
Female Live Births	64603	2979	19477	6634	1213

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <10 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Oregon

Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	82 (5.2)	<10 (†)	85 (4.2)
Trisomy 13	17 (1.1)	11 (2.6)	28 (1.4)
Trisomy 18	19 (1.2)	15 (3.5)	34 (1.7)
Trisomy 21 (Down syndrome)	172 (11.0)	149 (34.6)	321 (16.0)
Total live births	156935	43111	200051

Notes

- †- Counts <10 and associated prevalences are suppressed
- *- Data for totals include unknown/other maternal age

Puerto Rico

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	0 (0.0)	0 (0.0)	29 (3.0)	0 (0.0)	0 (0.0)
Anophthalmia / microphthalmia	0 (0.0)	0 (0.0)	14 (1.4)	0 (0.0)	0 (0.0)
Anotia / microtia	<5 (†)	0 (0.0)	14 (1.4)	0 (0.0)	0 (0.0)
Aortic valve stenosis	0 (0.0)	0 (0.0)	14 (1.4)	0 (0.0)	0 (0.0)
Atrial septal defect	5 (26.5)	<5 (†)	335 (34.5)	0 (0.0)	0 (0.0)
Atrioventricular septal defect (endocardial cushion defect)	<5 (†)	0 (0.0)	43 (4.4)	0 (0.0)	0 (0.0)
Bladder exstrophy	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Cleft lip alone (without cleft palate)	0 (0.0)	0 (0.0)	42 (4.3)	0 (0.0)	0 (0.0)
Cleft lip with cleft palate	0 (0.0)	0 (0.0)	59 (6.1)	<5 (†)	0 (0.0)
Cleft palate alone (without cleft lip)	0 (0.0)	0 (0.0)	62 (6.4)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Puerto Rico

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Clubfoot	<5 (†)	0 (0.0)	193 (19.9)	<5 (†)	0 (0.0)
Coarctation of aorta	0 (0.0)	0 (0.0)	42 (4.3)	0 (0.0)	0 (0.0)
Common truncus (truncus arteriosus or TA)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Congenital cataract	0 (0.0)	0 (0.0)	27 (2.8)	0 (0.0)	0 (0.0)
Craniosynostosis	<5 (†)	0 (0.0)	23 (2.4)	0 (0.0)	0 (0.0)
Deletion 22q11.2	<5 (†)	0 (0.0)	5 (0.5)	0 (0.0)	0 (0.0)
Dextro- Transposition of great arteries (d- TGA)	0 (0.0)	0 (0.0)	12 (1.2)	0 (0.0)	0 (0.0)
Diaphragmatic hernia	0 (0.0)	0 (0.0)	23 (2.4)	0 (0.0)	0 (0.0)
Double outlet right ventricle (DORV)	0 (0.0)	0 (0.0)	22 (2.3)	0 (0.0)	0 (0.0)
Ebstein anomaly	0 (0.0)	0 (0.0)	8 (0.8)	0 (0.0)	0 (0.0)
Encephalocele	0 (0.0)	0 (0.0)	10 (1.0)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Puerto Rico

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Esophageal atresia / tracheoesophageal fistula	0 (0.0)	0 (0.0)	11 (2.9)	0 (0.0)	0 (0.0)
Gastroschisis	<5 (†)	0 (0.0)	56 (5.8)	0 (0.0)	0 (0.0)
Holoprosencephaly	<5 (†)	0 (0.0)	25 (2.6)	0 (0.0)	0 (0.0)
Hypoplastic left heart syndrome	0 (0.0)	0 (0.0)	25 (2.6)	0 (0.0)	0 (0.0)
Hypospadias	10 (103.0)	<5 (†)	363 (72.9)	0 (0.0)	0 (0.0)
Interrupted aortic arch (IAA)	0 (0.0)	0 (0.0)	5 (0.5)	0 (0.0)	0 (0.0)
Limb deficiencies (reduction defects)	<5 (†)	0 (0.0)	64 (6.6)	0 (0.0)	0 (0.0)
Omphalocele	<5 (†)	0 (0.0)	35 (3.6)	0 (0.0)	0 (0.0)
Pulmonary valve atresia	0 (0.0)	0 (0.0)	8 (0.8)	0 (0.0)	0 (0.0)
Pulmonary valve atresia and stenosis	<5 (†)	0 (0.0)	125 (12.9)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Puerto Rico

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Single ventricle	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	0 (0.0)	0 (0.0)	13 (3.5)	0 (0.0)	0 (0.0)
Spina bifida without anencephaly	<5 (†)	0 (0.0)	32 (3.3)	0 (0.0)	0 (0.0)
Tetralogy of Fallot (TOF)	0 (0.0)	0 (0.0)	33 (3.4)	0 (0.0)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	0 (0.0)	0 (0.0)	10 (1.0)	0 (0.0)	0 (0.0)
Transposition of the great arteries (TGA)	0 (0.0)	0 (0.0)	24 (2.5)	0 (0.0)	0 (0.0)
Tricuspid valve atresia	0 (0.0)	0 (0.0)	11 (1.1)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	0 (0.0)	0 (0.0)	9 (0.9)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Puerto Rico

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Trisomy 13	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 18	0 (0.0)	0 (0.0)	13 (1.3)	0 (0.0)	0 (0.0)
Trisomy 21 (Down syndrome)	<5 (†)	<5 (†)	120 (12.4)	0 (0.0)	0 (0.0)
Turner syndrome	0 (0.0)	0 (0.0)	7 (1.5)	0 (0.0)	0 (0.0)
Ventricular septal defect	<5 (†)	0 (0.0)	460 (47.4)	0 (0.0)	0 (0.0)
Total live births	1886	279	97034	164	10
Male Live Births	971	148	49762	77	3
Female Live Births	914	131	47269	87	7

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Puerto Rico
Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	58 (6.7)	0 (0.0)	58 (5.8)
Trisomy 13	<5 (†)	0 (0.0)	<5 (†)
Trisomy 18	12 (1.4)	6 (5.1)	18 (1.8)
Trisomy 21 (Down syndrome)	53 (6.1)	74 (63.3)	127 (12.8)
Total live births	86879	11689	99510

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Rhode Island

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Anophthalmia / microphthalmia	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Anotia / microtia	5 (1.8)	0 (0.0)	8 (5.5)	<5 (†)	0 (0.0)
Aortic valve stenosis	5 (1.8)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)
Atrial septal defect	78 (28.1)	21 (49.8)	48 (33.2)	5 (21.6)	0 (0.0)
Atrioventricular septal defect (endocardial cushion defect)	9 (3.2)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Biliary atresia	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bladder exstrophy	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Choanal atresia	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Cleft lip alone (without cleft palate)	10 (3.6)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Rhode Island

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	7 (2.5)	0 (0.0)	8 (5.5)	<5 (†)	0 (0.0)
Cleft palate alone (without cleft lip)	15 (5.4)	<5 (†)	8 (5.5)	0 (0.0)	0 (0.0)
Cloacal exstrophy	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	44 (15.9)	6 (14.2)	25 (17.3)	<5 (†)	<5 (†)
Coarctation of aorta	12 (4.3)	0 (0.0)	5 (3.5)	0 (0.0)	0 (0.0)
Common truncus (truncus arteriosus or TA)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Congenital cataract	5 (1.8)	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)
Congenital posterior urethral valves	0 (0.0)	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)
Craniosynostosis	8 (2.9)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Deletion 22q11.2	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Dextro-Transposition of	<5 (†)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Rhode Island

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	<5 (†)	<5 (†)	5 (3.5)	0 (0.0)	0 (0.0)
Double outlet right ventricle (DORV)	<5 (†)	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)
Ebstein anomaly	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Encephalocele	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	7 (2.5)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Gastroschisis	13 (4.7)	0 (0.0)	9 (6.2)	0 (0.0)	0 (0.0)
Holoprosencephaly	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Hypoplastic left heart syndrome	<5 (†)	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)
Hypospadias	122 (86.3)	33 (164.5)	40 (55.0)	6 (52.2)	0 (0.0)
Interrupted aortic arch (IAA)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Rhode Island

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	11 (4.0)	0 (0.0)	6 (4.2)	<5 (†)	0 (0.0)
Omphalocele	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Pulmonary valve atresia	<5 (†)	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)
Pulmonary valve atresia and stenosis	17 (6.1)	<5 (†)	9 (6.2)	<5 (†)	0 (0.0)
Rectal and large intestinal atresia / stenosis	8 (2.9)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Renal agenesis / hypoplasia	13 (4.7)	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)
Single ventricle	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	8 (2.9)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Spina bifida without anencephaly	<5 (†)	0 (0.0)	5 (3.5)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Rhode Island

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	5 (1.8)	0 (0.0)	5 (3.5)	<5 (†)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Transposition of the great arteries (TGA)	<5 (†)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Tricuspid valve atresia	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 13	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 18	<5 (†)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 21 (Down syndrome)	39 (14.1)	14 (33.2)	28 (19.4)	5 (21.6)	0 (0.0)
Turner syndrome	<5 (†)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Rhode Island

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	127 (45.8)	24 (56.9)	70 (48.4)	10 (43.2)	<5 (†)
Total live births	27719	4217	14449	2315	224
Male Live Births	14144	2006	7276	1150	119
Female Live Births	13575	2211	7172	1165	105

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Rhode Island

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	23 (5.7)	0 (0.0)	23 (4.5)
Trisomy 13	<5 (†)	<5 (†)	6 (1.2)
Trisomy 18	<5 (†)	10 (8.8)	15 (2.9)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Rhode Island Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	38 (9.5)	57 (50.2)	98 (19.0)
Total live births	40106	11363	51476
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Rhode Island Notes on Specific Birth Defects

Defect	Site Comment
Ventricular septal defect	Includes probable cases
Atrial septal defect	Includes probable cases
Universal comment	ICD-10 Coding used
Universal comment	Data 2018-2021 include stillbirths and terminations at all gestational ages

South Carolina

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	29 (1.8)	11 (1.4)	6 (2.0)	0 (0.0)	0 (0.0)
Anophthalmia / microphthalmia	23 (1.4)	13 (1.6)	<5 (†)	<5 (†)	0 (0.0)
Anotia / microtia	41 (2.5)	7 (0.9)	21 (7.1)	0 (0.0)	0 (0.0)
Aortic valve stenosis	30 (1.8)	10 (1.2)	5 (1.7)	0 (0.0)	0 (0.0)
Atrial septal defect	270 (16.4)	146 (17.9)	55 (18.7)	<5 (†)	<5 (†)
Atrioventricular septal defect (endocardial cushion defect)	70 (4.2)	48 (5.9)	11 (3.7)	<5 (†)	0 (0.0)
Biliary atresia	9 (0.5)	7 (0.9)	<5 (†)	<5 (†)	0 (0.0)
Bladder exstrophy	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Choanal atresia	15 (0.9)	9 (1.1)	<5 (†)	0 (0.0)	0 (0.0)
Cleft lip alone (without cleft palate)	59 (3.6)	9 (1.1)	7 (2.4)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

South Carolina

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	115 (7.0)	45 (5.5)	25 (8.5)	<5 (†)	<5 (†)
Cleft palate alone (without cleft lip)	157 (9.5)	53 (6.5)	21 (7.1)	<5 (†)	<5 (†)
Coarctation of aorta	94 (5.7)	29 (3.6)	15 (5.1)	<5 (†)	<5 (†)
Common truncus (truncus arteriosus or TA)	16 (1.0)	5 (0.6)	<5 (†)	0 (0.0)	0 (0.0)
Congenital cataract	24 (1.5)	25 (3.1)	6 (2.0)	0 (0.0)	0 (0.0)
Congenital posterior urethral valves	20 (2.4)	19 (4.6)	<5 (†)	0 (0.0)	<5 (†)
Craniosynostosis	152 (9.2)	28 (3.4)	18 (6.1)	<5 (†)	<5 (†)
Deletion 22q11.2	8 (0.5)	10 (1.2)	<5 (†)	<5 (†)	0 (0.0)
Diaphragmatic hernia	65 (3.9)	30 (3.7)	7 (2.4)	<5 (†)	<5 (†)
Double outlet right ventricle (DORV)	31 (1.9)	37 (4.5)	12 (4.1)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

South Carolina

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Ebstein anomaly	<5 (†)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Encephalocele	10 (0.6)	18 (2.2)	0 (0.0)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	32 (1.9)	10 (1.2)	8 (2.7)	0 (0.0)	0 (0.0)
Gastroschisis	49 (3.0)	30 (3.7)	17 (5.8)	0 (0.0)	0 (0.0)
Holoprosencephaly	14 (0.8)	12 (1.5)	<5 (†)	0 (0.0)	0 (0.0)
Hypoplastic left heart syndrome	59 (3.6)	24 (2.9)	12 (4.1)	<5 (†)	0 (0.0)
Hypospadias	37 (4.4)	23 (5.6)	<5 (†)	0 (0.0)	0 (0.0)
Interrupted aortic arch (IAA)	121 (7.3)	45 (5.5)	19 (6.4)	<5 (†)	<5 (†)
Limb deficiencies (reduction defects)	89 (5.4)	42 (5.2)	26 (8.8)	0 (0.0)	0 (0.0)
Omphalocele	44 (2.7)	27 (3.3)	<5 (†)	<5 (†)	0 (0.0)
Pulmonary valve atresia	10 (0.6)	10 (1.2)	<5 (†)	0 (0.0)	<5 (†)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

South Carolina

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Pulmonary valve atresia and stenosis	122 (7.4)	86 (10.6)	29 (9.8)	5 (8.2)	<5 (†)
Rectal and large intestinal atresia / stenosis	59 (3.6)	33 (4.1)	12 (4.1)	0 (0.0)	<5 (†)
Renal agenesis / hypoplasia	115 (7.0)	53 (6.5)	15 (5.1)	<5 (†)	0 (0.0)
Single ventricle	13 (0.8)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	69 (4.2)	37 (4.5)	16 (5.4)	<5 (†)	<5 (†)
Spina bifida without anencephaly	56 (3.4)	22 (2.7)	13 (4.4)	0 (0.0)	0 (0.0)
Tetralogy of Fallot (TOF)	75 (4.5)	36 (4.4)	14 (4.7)	<5 (†)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	14 (0.8)	7 (0.9)	9 (3.1)	0 (0.0)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

South Carolina

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Transposition of the great arteries (TGA)	44 (2.7)	12 (1.5)	10 (3.4)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	<5 (†)	6 (0.7)	6 (2.0)	0 (0.0)	<5 (†)
Trisomy 13	27 (1.6)	9 (1.1)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 18	46 (2.8)	30 (3.7)	10 (3.4)	<5 (†)	0 (0.0)
Trisomy 21 (Down syndrome)	211 (12.8)	91 (11.2)	68 (23.1)	7 (11.4)	<5 (†)
Turner syndrome	35 (4.4)	10 (2.5)	9 (6.1)	0 (0.0)	<5 (†)
Ventricular septal defect	776 (47.0)	393 (48.2)	221 (74.9)	29 (47.3)	11 (185.5)
Total live births	165007	81457	29487	6128	593
Male Live Births	84714	41269	14843	3179	304
Female Live Births	80293	40188	14644	2949	289

Notes

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2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

South Carolina
Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	94 (3.9)	<5 (†)	96 (3.4)
Trisomy 13	25 (1.0)	15 (3.4)	41 (1.4)
Trisomy 18	42 (1.7)	45 (10.1)	88 (3.1)
Trisomy 21 (Down syndrome)	178 (7.4)	198 (44.6)	381 (13.4)
Total live births	240076	44351	284433

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Tennessee

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	32 (1.2)	8 (1.0)	7 (1.5)	<5 (†)	0 (0.0)
Anophthalmia / microphthalmia	32 (1.2)	15 (2.0)	8 (1.8)	<5 (†)	0 (0.0)
Anotia / microtia	57 (2.2)	11 (1.4)	17 (3.7)	<5 (†)	0 (0.0)
Aortic valve stenosis	56 (2.1)	8 (1.0)	9 (2.0)	<5 (†)	0 (0.0)
Atrial septal defect	5708 (218.9)	2541 (332.0)	901 (197.8)	168 (178.7)	6 (149.6)
Atrioventricular septal defect (endocardial cushion defect)	149 (5.7)	75 (9.8)	21 (4.6)	5 (5.3)	0 (0.0)
Biliary atresia	94 (3.6)	46 (6.0)	18 (4.0)	7 (7.4)	0 (0.0)
Bladder exstrophy	8 (0.3)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Choanal atresia	58 (2.2)	19 (2.5)	14 (3.1)	<5 (†)	0 (0.0)
Cleft lip alone (without cleft palate)	96 (3.7)	14 (1.8)	14 (3.1)	<5 (†)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Tennessee

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	234 (9.0)	34 (4.4)	47 (10.3)	5 (5.3)	0 (0.0)
Cleft palate alone (without cleft lip)	265 (10.2)	36 (4.7)	34 (7.5)	7 (7.4)	<5 (†)
Cloacal exstrophy	6 (0.2)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Clubfoot	693 (26.6)	200 (26.1)	105 (23.0)	14 (14.9)	<5 (†)
Coarctation of aorta	222 (8.5)	46 (6.0)	36 (7.9)	<5 (†)	0 (0.0)
Common truncus (truncus arteriosus or TA)	20 (0.8)	5 (0.7)	6 (1.3)	<5 (†)	0 (0.0)
Congenital cataract	65 (2.5)	20 (2.6)	7 (1.5)	0 (0.0)	0 (0.0)
Congenital posterior urethral valves	35 (2.6)	15 (3.9)	<5 (†)	<5 (†)	0 (0.0)
Craniosynostosis	518 (19.9)	55 (7.2)	62 (13.6)	12 (12.8)	<5 (†)
Deletion 22q11.2	31 (1.2)	7 (0.9)	<5 (†)	<5 (†)	0 (0.0)
Dextro-Transposition of	101 (3.9)	21 (2.7)	14 (3.1)	<5 (†)	0 (0.0)

Notes

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2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Tennessee

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	95 (3.6)	33 (4.3)	17 (3.7)	<5 (†)	0 (0.0)
Double outlet right ventricle (DORV)	84 (3.2)	31 (4.1)	16 (3.5)	<5 (†)	0 (0.0)
Ebstein anomaly	44 (1.7)	7 (0.9)	7 (1.5)	0 (0.0)	0 (0.0)
Encephalocele	37 (1.4)	8 (1.0)	<5 (†)	<5 (†)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	94 (3.6)	15 (2.0)	16 (3.5)	<5 (†)	0 (0.0)
Gastroschisis	121 (4.6)	25 (3.3)	20 (4.4)	<5 (†)	<5 (†)
Holoprosencephaly	29 (1.1)	17 (2.2)	14 (3.1)	<5 (†)	0 (0.0)
Hypoplastic left heart syndrome	114 (4.4)	37 (4.8)	8 (1.8)	<5 (†)	0 (0.0)
Hypospadias	1622 (121.7)	401 (103.6)	120 (51.6)	36 (75.2)	<5 (†)
Interrupted aortic arch (IAA)	23 (0.9)	12 (1.6)	<5 (†)	0 (0.0)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Tennessee

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	94 (3.6)	28 (3.7)	22 (4.8)	<5 (†)	0 (0.0)
Omphalocele	77 (3.0)	24 (3.1)	11 (2.4)	<5 (†)	0 (0.0)
Pulmonary valve atresia	47 (1.8)	12 (1.6)	9 (2.0)	<5 (†)	0 (0.0)
Pulmonary valve atresia and stenosis	234 (9.0)	108 (14.1)	39 (8.6)	<5 (†)	0 (0.0)
Rectal and large intestinal atresia / stenosis	136 (5.2)	40 (5.2)	33 (7.2)	5 (5.3)	0 (0.0)
Renal agenesis / hypoplasia	220 (8.4)	50 (6.5)	38 (8.3)	<5 (†)	0 (0.0)
Single ventricle	57 (2.2)	12 (1.6)	10 (2.2)	<5 (†)	0 (0.0)
Small intestinal atresia / stenosis	95 (3.6)	25 (3.3)	21 (4.6)	<5 (†)	0 (0.0)
Spina bifida without anencephaly	123 (4.7)	18 (2.4)	20 (4.4)	<5 (†)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Tennessee

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	161 (6.2)	46 (6.0)	21 (4.6)	<5 (†)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	33 (1.3)	<5 (†)	10 (2.2)	0 (0.0)	0 (0.0)
Transposition of the great arteries (TGA)	105 (4.0)	24 (3.1)	15 (3.3)	<5 (†)	<5 (†)
Tricuspid valve atresia	28 (1.1)	8 (1.0)	7 (1.5)	<5 (†)	0 (0.0)
Tricuspid valve atresia and stenosis	28 (1.1)	8 (1.0)	7 (1.5)	<5 (†)	0 (0.0)
Trisomy 13	28 (1.1)	9 (1.2)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 18	50 (1.9)	20 (2.6)	18 (4.0)	<5 (†)	0 (0.0)
Trisomy 21 (Down syndrome)	375 (14.4)	100 (13.1)	111 (24.4)	9 (9.6)	0 (0.0)
Turner syndrome	51 (4.0)	9 (2.4)	7 (3.1)	<5 (†)	0 (0.0)

Notes

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- 3- Data for total live births include unknown infant sex.

General comments

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- *- Data for totals include unknown/other race

Tennessee

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	1572 (60.3)	492 (64.3)	323 (70.9)	40 (42.6)	<5 (†)
Total live births	260781	76534	45559	9399	401
Male Live Births	133328	38714	23266	4787	199
Female Live Births	127448	37815	22291	4612	202

Notes

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- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Tennessee

Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	164 (4.7)	10 (1.7)	174 (4.3)
Trisomy 13	32 (0.9)	9 (1.6)	41 (1.0)
Trisomy 18	39 (1.1)	53 (9.2)	92 (2.3)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Tennessee Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	307 (8.9)	300 (52.0)	607 (15.0)
Total live births	346035	57731	403830
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Tennessee Notes on Specific Birth Defects

Defect	Site Comment
Anencephaly	Anencephalus is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Spina bifida without anencephaly	Spina bifida is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.

Tennessee

Notes on Specific Birth Defects

Defect	Site Comment
Anophthalmia / microphthalmia	Anophthalmia/microphthalmia is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Common truncus (truncus arteriosus or TA)	Common truncus is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Transposition of the great arteries (TGA)	Transposition of great arteries is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Dextro-Transposition of great arteries (d-TGA)	Dextro-transposition of great arteries is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years

Tennessee

Notes on Specific Birth Defects

Defect	Site Comment
	2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Tetralogy of Fallot (TOF)	Tetralogy of Fallot is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Atrioventricular septal defect (endocardial cushion defect)	Atrioventricular septal defect is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Pulmonary valve atresia	Pulmonary valve atresia is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.

Tennessee

Notes on Specific Birth Defects

Defect	Site Comment
Tricuspid valve atresia	Tricuspid valve atresia is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Ebstein anomaly	Ebstein's anomaly is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Hypoplastic left heart syndrome	Hypoplastic left heart syndrome is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Coarctation of aorta	Coarctation of aorta is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023.

Tennessee

Notes on Specific Birth Defects

Defect	Site Comment
	Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Total anomalous pulmonary venous connection (TAPVC)	Total anomalous pulmonary venous connection is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Cleft palate alone (without cleft lip)	Cleft palate alone is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Esophageal atresia / tracheoesophageal fistula	Esophageal atresia/tracheoesophageal fistula is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been

Tennessee

Notes on Specific Birth Defects

Defect	Site Comment
	removed as they have for the earlier birth years.
Gastroschisis	Gastroschisis is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Omphalocele	Omphalocele is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Diaphragmatic hernia	Diaphragmatic hernia is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Trisomy 21 (Down syndrome)	Trisomy 21 is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is

Tennessee

Notes on Specific Birth Defects

Defect	Site Comment
	complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Limb deficiencies (reduction defects)	Limb deficiencies is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Small intestinal atresia / stenosis	Small intestinal atresia/stenosis is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Cleft lip alone (without cleft palate)	Cleft lip alone is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been

Tennessee

Notes on Specific Birth Defects

Defect	Site Comment
	removed as they have for the earlier birth years.
Cleft lip with cleft palate	Cleft lip with cleft palate is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Single ventricle	Single ventricle is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Interrupted aortic arch (IAA)	Interrupted aortic arch is one of 27 conditions TN performs diagnosis verification (through medical record review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Double outlet right ventricle (DORV)	Double outlet right ventricle is one of 27 conditions TN performs diagnosis verification (through medical record

Tennessee	
Notes on Specific Birth Defects	
Defect	Site Comment
	review) for. This review is complete for birth years 2018-2020 and currently incomplete for birth years 2021-2023. Because of this, counts may appear higher for birth years 2021-2023 as false positives (i.e. inaccurately reported cases) have not yet been removed as they have for the earlier birth years.
Universal comment	Note that male and female live birth numbers do not sum to overall live birth total due to a small number of live births each year that had unknown sex.

Texas

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	111 (1.8)	35 (1.5)	219 (2.4)	17 (1.7)	0 (0.0)
Anophthalmia / microphthalmia	167 (2.8)	48 (2.1)	302 (3.3)	21 (2.1)	0 (0.0)
Anotia / microtia	200 (3.3)	46 (2.0)	575 (6.4)	44 (4.4)	0 (0.0)
Aortic valve stenosis	183 (3.0)	40 (1.7)	233 (2.6)	22 (2.2)	<5 (†)
Atrial septal defect	5079 (84.0)	2393 (103.1)	9816 (108.8)	608 (60.8)	31 (94.1)
Atrioventricular septal defect (endocardial cushion defect)	354 (5.9)	176 (7.6)	472 (5.2)	32 (3.2)	<5 (†)
Biliary atresia	26 (0.4)	24 (1.0)	54 (0.6)	9 (0.9)	0 (0.0)
Bladder exstrophy	15 (0.2)	7 (0.3)	8 (0.1)	<5 (†)	0 (0.0)
Choanal atresia	94 (1.6)	33 (1.4)	125 (1.4)	8 (0.8)	<5 (†)
Cleft lip alone (without cleft palate)	240 (4.0)	80 (3.4)	285 (3.2)	34 (3.4)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Texas

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	413 (6.8)	90 (3.9)	778 (8.6)	49 (4.9)	5 (15.2)
Cleft palate alone (without cleft lip)	407 (6.7)	106 (4.6)	522 (5.8)	59 (5.9)	5 (15.2)
Cloacal exstrophy	7 (0.1)	5 (0.2)	8 (0.1)	<5 (†)	0 (0.0)
Clubfoot	1197 (19.8)	496 (21.4)	1844 (20.4)	148 (14.8)	8 (24.3)
Coarctation of aorta	377 (6.2)	95 (4.1)	578 (6.4)	33 (3.3)	<5 (†)
Common truncus (truncus arteriosus or TA)	32 (0.5)	15 (0.6)	72 (0.8)	<5 (†)	0 (0.0)
Congenital cataract	128 (2.1)	64 (2.8)	200 (2.2)	24 (2.4)	<5 (†)
Congenital posterior urethral valves	73 (2.4)	54 (4.6)	77 (1.7)	15 (2.9)	0 (0.0)
Craniosynostosis	536 (8.9)	84 (3.6)	677 (7.5)	42 (4.2)	<5 (†)
Deletion 22q11.2	77 (1.3)	36 (1.6)	132 (1.5)	<5 (†)	0 (0.0)
Dextro-Transposition of	156 (2.6)	39 (1.7)	210 (2.3)	23 (2.3)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Texas

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	187 (3.1)	66 (2.8)	301 (3.3)	26 (2.6)	0 (0.0)
Double outlet right ventricle (DORV)	148 (2.4)	86 (3.7)	284 (3.1)	20 (2.0)	<5 (†)
Ebstein anomaly	62 (1.0)	10 (0.4)	88 (1.0)	10 (1.0)	0 (0.0)
Encephalocele	65 (1.1)	39 (1.7)	93 (1.0)	<5 (†)	<5 (†)
Esophageal atresia / tracheoesophageal fistula	165 (2.7)	48 (2.1)	189 (2.1)	17 (1.7)	0 (0.0)
Gastroschisis	256 (4.2)	68 (2.9)	466 (5.2)	12 (1.2)	<5 (†)
Holoprosencephaly	49 (0.8)	23 (1.0)	102 (1.1)	<5 (†)	<5 (†)
Hypoplastic left heart syndrome	153 (2.5)	51 (2.2)	208 (2.3)	6 (0.6)	<5 (†)
Hypospadias	2882 (92.8)	1009 (85.6)	2282 (49.6)	325 (63.0)	7 (41.1)
Interrupted aortic arch (IAA)	41 (0.7)	18 (0.8)	69 (0.8)	<5 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Texas

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	295 (4.9)	162 (7.0)	529 (5.9)	31 (3.1)	<5 (†)
Omphalocele	142 (2.3)	69 (3.0)	193 (2.1)	14 (1.4)	<5 (†)
Pulmonary valve atresia	41 (0.7)	24 (1.0)	76 (0.8)	9 (0.9)	0 (0.0)
Pulmonary valve atresia and stenosis	665 (11.0)	367 (15.8)	1131 (12.5)	77 (7.7)	7 (21.3)
Rectal and large intestinal atresia / stenosis	299 (4.9)	112 (4.8)	560 (6.2)	44 (4.4)	<5 (†)
Renal agenesis / hypoplasia	515 (8.5)	202 (8.7)	792 (8.8)	70 (7.0)	<5 (†)
Single ventricle	49 (0.8)	15 (0.6)	75 (0.8)	<5 (†)	0 (0.0)
Small intestinal atresia / stenosis	214 (3.5)	88 (3.8)	372 (4.1)	29 (2.9)	<5 (†)
Spina bifida without anencephaly	198 (3.3)	54 (2.3)	390 (4.3)	22 (2.2)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 ma
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Texas

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	279 (4.6)	136 (5.9)	406 (4.5)	52 (5.2)	<5 (†)
Total anomalous pulmonary venous connection (TAPVC)	75 (1.2)	26 (1.1)	198 (2.2)	9 (0.9)	<5 (†)
Transposition of the great arteries (TGA)	209 (3.5)	45 (1.9)	269 (3.0)	30 (3.0)	0 (0.0)
Tricuspid valve atresia	38 (0.6)	17 (0.7)	73 (0.8)	<5 (†)	0 (0.0)
Tricuspid valve atresia and stenosis	146 (2.4)	67 (2.9)	222 (2.5)	16 (1.6)	<5 (†)
Trisomy 13	56 (0.9)	29 (1.2)	92 (1.0)	<5 (†)	<5 (†)
Trisomy 18	108 (1.8)	66 (2.8)	222 (2.5)	12 (1.2)	0 (0.0)
Trisomy 21 (Down syndrome)	737 (12.2)	318 (13.7)	1596 (17.7)	107 (10.7)	8 (24.3)
Turner syndrome	104 (3.5)	35 (3.1)	130 (2.9)	11 (2.3)	<5 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Texas

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	3969 (65.6)	1413 (60.9)	7592 (84.2)	572 (57.2)	25 (75.9)
Total live births	604578	232152	901907	100049	3293
Male Live Births	310621	117888	459728	51557	1703
Female Live Births	293956	114260	442176	48491	1590

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Texas

Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	793 (5.0)	33 (1.0)	827 (4.4)
Trisomy 13	108 (0.7)	76 (2.4)	186 (1.0)
Trisomy 18	184 (1.2)	242 (7.7)	426 (2.3)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Texas

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	1341 (8.5)	1483 (47.1)	2824 (15.0)
Total live births	1570959	315043	1886045
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Texas

Notes on Specific Birth Defects

Defect	Site Comment
Tetralogy of Fallot (TOF)	Includes any pulmonary valve atresia with co-occurring ventricular septal defect.
Ventricular septal defect	Inlet VSD code was added in July 2019. Prior to July 2019, we are unable to distinguish inlet VSD from other types of VSD.
Pulmonary valve atresia	Excludes pulmonary valve atresia with co-occurring ventricular septal defect or tetralogy of Fallot.
Choanal atresia	May include stenosis.
Hypospadias	Data for this condition include male and unknown gender cases only.
Turner syndrome	Data for this condition include female and unknown gender cases only.
Congenital posterior urethral valves	Data for this condition include male and unknown gender cases only.

Texas	
Notes on Specific Birth Defects	
Defect	Site Comment
Universal comment	Texas only reports definite diagnoses for all defects reported. Possible/probable diagnoses are not included.
Universal comment	Texas case definition includes livebirths, stillbirths, and terminations at any length of gestation and any birthweight.

Utah

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	34 (2.1)	0 (0.0)	<11 (†)	<11 (†)	0 (0.0)
Anophthalmia / microphthalmia	26 (1.6)	0 (0.0)	11 (2.7)	<11 (†)	<11 (†)
Anotia / microtia	53 (3.2)	0 (0.0)	32 (7.8)	<11 (†)	<11 (†)
Aortic valve stenosis	65 (4.0)	<11 (†)	12 (2.9)	<11 (†)	<11 (†)
Atrial septal defect	514 (31.3)	<11 (†)	165 (40.0)	25 (30.8)	<11 (†)
Atrioventricular septal defect (endocardial cushion defect)	88 (5.4)	<11 (†)	12 (2.9)	<11 (†)	0 (0.0)
Biliary atresia	<11 (†)	<11 (†)	<11 (†)	<11 (†)	<11 (†)
Bladder exstrophy	<11 (†)	0 (0.0)	<11 (†)	0 (0.0)	0 (0.0)
Choanal atresia	19 (1.2)	0 (0.0)	<11 (†)	<11 (†)	0 (0.0)
Cleft lip alone (without cleft palate)	74 (4.5)	0 (0.0)	26 (6.3)	<11 (†)	<11 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <11 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Utah

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	126 (7.7)	<11 (†)	30 (7.3)	<11 (†)	<11 (†)
Cleft palate alone (without cleft lip)	127 (7.7)	<11 (†)	34 (8.2)	<11 (†)	<11 (†)
Cloacal exstrophy	<11 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Coarctation of aorta	176 (10.7)	<11 (†)	37 (9.0)	<11 (†)	<11 (†)
Common truncus (truncus arteriosus or TA)	<11 (†)	0 (0.0)	<11 (†)	0 (0.0)	<11 (†)
Congenital cataract	67 (4.1)	<11 (†)	12 (2.9)	<11 (†)	<11 (†)
Congenital posterior urethral valves	<11 (†)	<11 (†)	<11 (†)	0 (0.0)	0 (0.0)
Craniosynostosis	224 (13.7)	<11 (†)	43 (10.4)	<11 (†)	<11 (†)
Deletion 22q11.2	30 (1.8)	<11 (†)	<11 (†)	<11 (†)	<11 (†)
Dextro-Transposition of great arteries (d-TGA)	56 (3.4)	0 (0.0)	<11 (†)	<11 (†)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <11 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Utah

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Diaphragmatic hernia	67 (4.1)	0 (0.0)	18 (4.4)	<11 (†)	0 (0.0)
Double outlet right ventricle (DORV)	44 (2.7)	<11 (†)	11 (2.7)	<11 (†)	<11 (†)
Ebstein anomaly	21 (1.3)	<11 (†)	<11 (†)	<11 (†)	0 (0.0)
Encephalocele	20 (1.2)	0 (0.0)	<11 (†)	<11 (†)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	64 (3.9)	<11 (†)	<11 (†)	<11 (†)	0 (0.0)
Gastroschisis	50 (3.0)	0 (0.0)	25 (6.1)	<11 (†)	0 (0.0)
Holoprosencephaly	27 (1.6)	0 (0.0)	<11 (†)	<11 (†)	<11 (†)
Hypoplastic left heart syndrome	67 (4.1)	<11 (†)	18 (4.4)	<11 (†)	0 (0.0)
Hypospadias	631 (75.0)	<11 (†)	76 (36.1)	21 (51.8)	<11 (†)
Interrupted aortic arch (IAA)	<11 (†)	<11 (†)	<11 (†)	<11 (†)	<11 (†)
Limb deficiencies (reduction defects)	108 (6.6)	0 (0.0)	32 (7.8)	<11 (†)	<11 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <11 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Utah

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Omphalocele	52 (3.2)	0 (0.0)	12 (2.9)	<11 (†)	0 (0.0)
Pulmonary valve atresia	18 (1.1)	<11 (†)	12 (2.9)	<11 (†)	0 (0.0)
Pulmonary valve atresia and stenosis	289 (17.6)	<11 (†)	77 (18.7)	17 (20.9)	<11 (†)
Rectal and large intestinal atresia / stenosis	74 (4.5)	<11 (†)	14 (3.4)	<11 (†)	0 (0.0)
Renal agenesis / hypoplasia	98 (6.0)	<11 (†)	22 (5.3)	<11 (†)	<11 (†)
Single ventricle	<11 (†)	0 (0.0)	0 (0.0)	<11 (†)	0 (0.0)
Small intestinal atresia / stenosis	54 (3.3)	<11 (†)	22 (5.3)	<11 (†)	<11 (†)
Spina bifida without anencephaly	66 (4.0)	<11 (†)	15 (3.6)	<11 (†)	0 (0.0)
Tetralogy of Fallot (TOF)	69 (4.2)	<11 (†)	12 (2.9)	<11 (†)	<11 (†)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 ma
 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f
 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <11 and associated prevalences are suppressed
 *- Data for totals include unknown/other race

Utah

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Total anomalous pulmonary venous connection (TAPVC)	32 (2.0)	0 (0.0)	<11 (†)	<11 (†)	0 (0.0)
Transposition of the great arteries (TGA)	63 (3.8)	0 (0.0)	<11 (†)	<11 (†)	0 (0.0)
Tricuspid valve atresia	<11 (†)	<11 (†)	<11 (†)	<11 (†)	<11 (†)
Tricuspid valve atresia and stenosis	15 (0.9)	<11 (†)	<11 (†)	<11 (†)	<11 (†)
Trisomy 13	30 (1.8)	0 (0.0)	<11 (†)	<11 (†)	0 (0.0)
Trisomy 18	57 (3.5)	<11 (†)	13 (3.2)	<11 (†)	<11 (†)
Trisomy 21 (Down syndrome)	276 (16.8)	<11 (†)	111 (26.9)	21 (25.9)	<11 (†)
Turner syndrome	52 (6.5)	<11 (†)	17 (8.4)	<11 (†)	0 (0.0)
Ventricular septal defect	429 (26.1)	<11 (†)	143 (34.7)	24 (29.6)	<11 (†)
Total live births	164070	2769	41252	8119	1684

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <11 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Utah

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Male Live Births	84141	1458	21058	4053	873
Female Live Births	79929	1309	20194	4066	811

Notes

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2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <11 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Utah

Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	79 (4.0)	<11 (†)	82 (3.5)
Trisomy 13	27 (1.4)	15 (4.2)	42 (1.8)
Trisomy 18	38 (1.9)	38 (10.7)	76 (3.3)
Trisomy 21 (Down syndrome)	213 (10.8)	216 (60.8)	429 (18.5)
Total live births	196739	35514	232260

Notes

†- Counts <11 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Utah

Notes on Specific Birth Defects

Defect	Site Comment
Atrial septal defect	ASD is only collected if another defect is present
Clubfoot	UBDN does not collect data on clubfoot
Universal comment	Spontaneous abortion not reported

Virginia

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	11 (0.4)	<5 (†)	7 (0.9)	Not reported	Not reported
Anophthalmia / microphthalmia	10 (0.4)	Not reported	Not reported	Not reported	Not reported
Anotia / microtia	15 (0.6)	<5 (†)	15 (2.0)	<5 (†)	Not reported
Aortic valve stenosis	24 (0.9)	<5 (†)	<5 (†)	<5 (†)	Not reported
Atrial septal defect	2034 (77.3)	1018 (101.6)	552 (74.1)	181 (49.9)	8 (99.3)
Atrioventricular septal defect (endocardial cushion defect)	23 (0.9)	7 (0.7)	<5 (†)	Not reported	Not reported
Biliary atresia	36 (1.4)	33 (3.3)	12 (1.6)	<5 (†)	Not reported
Bladder exstrophy	<5 (†)	Not reported	Not reported	Not reported	Not reported
Choanal atresia	28 (1.1)	5 (0.6)	<5 (†)	<5 (†)	Not reported
Cleft lip alone (without cleft palate)	47 (1.8)	9 (0.9)	12 (1.6)	7 (1.9)	Not reported

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Virginia

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	96 (3.6)	26 (2.6)	23 (3.1)	9 (2.5)	Not reported
Cleft palate alone (without cleft lip)	116 (4.4)	30 (3.0)	25 (3.4)	17 (4.7)	Not reported
Cloacal exstrophy	Not reported	Not reported	Not reported	Not reported	Not reported
Clubfoot	320 (12.2)	108 (10.8)	73 (9.8)	43 (11.9)	Not reported
Coarctation of aorta	106 (4.0)	30 (3.0)	26 (3.5)	6 (1.7)	Not reported
Common truncus (truncus arteriosus or TA)	Not reported	Not reported	Not reported	Not reported	Not reported
Congenital cataract	14 (0.5)	9 (0.9)	<5 (†)	<5 (†)	Not reported
Congenital posterior urethral valves	27 (2.0)	11 (2.2)	<5 (†)	<5 (†)	Not reported
Craniosynostosis	153 (5.8)	35 (3.5)	26 (3.5)	8 (2.2)	Not reported
Deletion 22q11.2	11 (0.4)	6 (0.8)	<5 (†)	<5 (†)	Not reported
Dextro-Transposition of	6 (0.2)	Not reported	<5 (†)	Not reported	Not reported

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Virginia

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	41 (1.6)	27 (2.7)	15 (2.0)	<5 (†)	Not reported
Double outlet right ventricle (DORV)	36 (1.4)	25 (2.5)	9 (1.2)	7 (1.9)	Not reported
Ebstein anomaly	12 (0.5)	<5 (†)	<5 (†)	<5 (†)	Not reported
Encephalocele	9 (0.3)	<5 (†)	5 (0.7)	<5 (†)	Not reported
Esophageal atresia / tracheoesophageal fistula	40 (1.5)	11 (1.1)	7 (0.9)	<5 (†)	Not reported
Gastroschisis	57 (2.2)	16 (1.6)	21 (2.8)	Not reported	Not reported
Holoprosencephaly	5 (0.2)	<5 (†)	<5 (†)	<5 (†)	Not reported
Hypoplastic left heart syndrome	30 (1.1)	13 (1.3)	5 (0.7)	<5 (†)	Not reported
Hypospadias	685 (50.8)	229 (44.8)	85 (22.3)	69 (36.9)	<5 (†)
Interrupted aortic arch (IAA)	<5 (†)	<5 (†)	Not reported	Not reported	Not reported

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Virginia

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	48 (1.8)	23 (2.3)	10 (1.3)	6 (1.7)	Not reported
Omphalocele	24 (0.9)	28 (2.8)	6 (0.8)	Not reported	Not reported
Pulmonary valve atresia	7 (0.3)	<5 (†)	<5 (†)	<5 (†)	Not reported
Pulmonary valve atresia and stenosis	83 (3.2)	47 (4.7)	27 (3.6)	10 (2.8)	Not reported
Rectal and large intestinal atresia / stenosis	64 (2.4)	30 (3.0)	21 (2.8)	16 (4.4)	<5 (†)
Renal agenesis / hypoplasia	100 (3.8)	38 (3.8)	31 (4.2)	10 (2.8)	Not reported
Single ventricle	31 (1.2)	11 (1.1)	5 (0.7)	<5 (†)	Not reported
Small intestinal atresia / stenosis	54 (2.1)	33 (3.3)	25 (3.4)	7 (1.9)	Not reported
Spina bifida without anencephaly	23 (0.9)	8 (0.8)	14 (1.9)	7 (1.9)	Not reported

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 ma
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Virginia

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	26 (1.0)	12 (1.2)	<5 (†)	5 (1.4)	Not reported
Total anomalous pulmonary venous connection (TAPVC)	19 (0.7)	5 (0.5)	8 (1.1)	<5 (†)	Not reported
Transposition of the great arteries (TGA)	Not reported	Not reported	Not reported	Not reported	Not reported
Tricuspid valve atresia	Not reported	Not reported	Not reported	Not reported	Not reported
Tricuspid valve atresia and stenosis	6 (0.2)	<5 (†)	<5 (†)	Not reported	Not reported
Trisomy 13	13 (0.5)	11 (1.1)	10 (1.3)	<5 (†)	Not reported
Trisomy 18	27 (1.0)	20 (2.0)	6 (0.8)	<5 (†)	Not reported
Trisomy 21 (Down syndrome)	286 (10.9)	88 (8.8)	113 (15.2)	21 (5.8)	<5 (†)
Turner syndrome	30 (2.3)	12 (2.4)	7 (1.9)	<5 (†)	Not reported

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 ma
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 f
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Virginia

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	467 (17.8)	162 (16.2)	148 (19.9)	56 (15.4)	<5 (†)
Total live births	263018	100162	74535	36262	806
Male Live Births	134824	51060	38135	18690	409
Female Live Births	128178	49095	36394	17571	397

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Virginia
Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	89 (2.6)	5 (1.0)	94 (1.9)
Trisomy 13	21 (0.6)	14 (1.7)	35 (0.7)
Trisomy 18	25 (0.8)	30 (3.0)	55 (1.1)
Trisomy 21 (Down syndrome)	235 (6.4)	287 (27.7)	522 (10.8)
Total live births	348760	49823	483188

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Vermont

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Anophthalmia / microphthalmia	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Anotia / microtia	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Aortic valve stenosis	11 (4.6)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Atrial septal defect	291 (122.0)	6 (100.3)	8 (118.9)	5 (76.3)	<5 (†)
Atrioventricular septal defect (endocardial cushion defect)	9 (3.8)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Biliary atresia	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bladder exstrophy	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Choanal atresia	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Cleft lip alone (without cleft palate)	10 (4.2)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Vermont

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	10 (4.2)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Cleft palate alone (without cleft lip)	15 (6.3)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Cloacal exstrophy	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	46 (19.3)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Coarctation of aorta	6 (2.5)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Common truncus (truncus arteriosus or TA)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Congenital cataract	10 (4.2)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Congenital posterior urethral valves	5 (4.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Craniosynostosis	20 (8.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Deletion 22q11.2	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Dextro-Transposition of	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.

2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Vermont

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	5 (2.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Double outlet right ventricle (DORV)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Ebstein anomaly	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Encephalocele	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Gastroschisis	7 (2.9)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Holoprosencephaly	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Hypoplastic left heart syndrome	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Hypospadias	97 (79.9)	<5 (†)	5 (147.1)	<5 (†)	<5 (†)
Interrupted aortic arch (IAA)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Vermont

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	9 (3.8)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Omphalocele	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Pulmonary valve atresia	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Pulmonary valve atresia and stenosis	35 (14.7)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Rectal and large intestinal atresia / stenosis	27 (11.3)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Renal agenesis / hypoplasia	12 (5.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Single ventricle	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Small intestinal atresia / stenosis	15 (6.3)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Spina bifida without anencephaly	5 (2.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Vermont

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	6 (2.5)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Total anomalous pulmonary venous connection (TAPVC)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Transposition of the great arteries (TGA)	5 (2.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Tricuspid valve atresia	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Trisomy 13	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Trisomy 18	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Trisomy 21 (Down syndrome)	25 (10.5)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Turner syndrome	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Vermont

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Ventricular septal defect	158 (66.3)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Total live births	23845	598	673	655	58
Male Live Births	12140	323	340	353	34
Female Live Births	11704	275	333	302	24

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 male live births.
- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Vermont

Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	8 (3.9)	0 (0.0)	8 (3.0)
Trisomy 13	<5 (†)	0 (0.0)	<5 (†)
Trisomy 18	<5 (†)	<5 (†)	<5 (†)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Vermont
Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	13 (6.3)	17 (28.1)	30 (11.3)
Total live births	20565	6045	26610
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			

Washington

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	<10 (†)	<10 (†)	<10 (†)	<10 (†)	0 (0.0)
Cleft lip alone (without cleft palate)	79 (3.4)	<10 (†)	29 (3.6)	10 (2.0)	<10 (†)
Cleft lip with cleft palate	100 (4.3)	<10 (†)	41 (5.0)	14 (2.8)	<10 (†)
Cleft palate alone (without cleft lip)	132 (5.7)	<10 (†)	44 (5.4)	27 (5.5)	<10 (†)
Gastroschisis	53 (2.3)	<10 (†)	37 (4.5)	<10 (†)	<10 (†)
Hypospadias	676 (57.4)	45 (47.3)	108 (26.0)	65 (25.5)	<10 (†)
Limb deficiencies (reduction defects)	48 (2.1)	<10 (†)	12 (1.5)	<10 (†)	<10 (†)
Omphalocele	41 (1.8)	<10 (†)	10 (1.2)	<10 (†)	<10 (†)
Spina bifida without anencephaly	58 (2.5)	<10 (†)	28 (3.4)	13 (2.6)	<10 (†)
Trisomy 21 (Down syndrome)	261 (11.3)	26 (13.9)	149 (18.3)	35 (7.1)	<10 (†)
Total live births	230780	18688	81450	49299	4911

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 ma
 2- Data for total live births include unknown infant sex.

General comments

- †- Counts <10 and associated prevalences are suppressed
 *- Data for totals include unknown/other race

Washington

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Male Live Births	117708	9522	41521	25459	2487
Female Live Births	Not reported	Not reported	Not reported	Not reported	Not reported

Notes

- 1- Data for this condition include male and unknown infant sex cases only. Prevalence is calculated per 10,000 ma
 2- Data for total live births include unknown infant sex.

General comments

†- Counts <10 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Washington

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	108 (3.3)	<10 (†)	113 (2.7)
Trisomy 21 (Down syndrome)	235 (7.2)	292 (31.0)	527 (12.5)
Total live births	327229	94142	421442

Notes

†- Counts <10 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Wisconsin

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Anencephaly	30 (1.3)	<5 (†)	8 (2.4)	<5 (†)	0 (0.0)
Anophthalmia / microphthalmia	6 (0.3)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Anotia / microtia	29 (1.3)	<5 (†)	6 (1.8)	<5 (†)	0 (0.0)
Aortic valve stenosis	27 (1.2)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Atrial septal defect	1560 (69.1)	282 (89.1)	202 (60.2)	82 (59.7)	40 (133.7)
Atrioventricular septal defect (endocardial cushion defect)	75 (3.3)	11 (3.5)	13 (3.9)	<5 (†)	0 (0.0)
Biliary atresia	7 (0.3)	6 (1.9)	6 (1.8)	<5 (†)	0 (0.0)
Bladder exstrophy	<5 (†)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Choanal atresia	22 (1.0)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Cleft lip alone (without cleft palate)	67 (3.0)	7 (2.2)	10 (3.0)	<5 (†)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Wisconsin

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Cleft lip with cleft palate	113 (5.0)	7 (2.2)	20 (6.0)	8 (5.8)	<5 (†)
Cleft palate alone (without cleft lip)	103 (4.6)	8 (2.5)	13 (3.9)	8 (5.8)	<5 (†)
Cloacal exstrophy	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Clubfoot	363 (16.1)	51 (16.1)	57 (17.0)	22 (16.0)	7 (23.4)
Coarctation of aorta	88 (3.9)	<5 (†)	12 (3.6)	8 (5.8)	0 (0.0)
Common truncus (truncus arteriosus or TA)	8 (0.4)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Congenital cataract	6 (0.3)	<5 (†)	0 (0.0)	0 (0.0)	0 (0.0)
Congenital posterior urethral valves	12 (1.0)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Craniosynostosis	58 (2.6)	0 (0.0)	<5 (†)	0 (0.0)	<5 (†)
Deletion 22q11.2	7 (0.3)	0 (0.0)	<5 (†)	<5 (†)	0 (0.0)
Dextro-Transposition of	55 (2.4)	<5 (†)	<5 (†)	<5 (†)	<5 (†)

Notes

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2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.

3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Wisconsin

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
great arteries (d-TGA)					
Diaphragmatic hernia	55 (2.4)	6 (1.9)	11 (3.3)	<5 (†)	0 (0.0)
Double outlet right ventricle (DORV)	32 (1.4)	<5 (†)	10 (3.0)	<5 (†)	0 (0.0)
Ebstein anomaly	15 (0.7)	0 (0.0)	<5 (†)	0 (0.0)	<5 (†)
Encephalocele	9 (0.4)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Esophageal atresia / tracheoesophageal fistula	39 (1.7)	5 (1.6)	5 (1.5)	0 (0.0)	0 (0.0)
Gastroschisis	61 (2.7)	16 (5.1)	16 (4.8)	5 (3.6)	0 (0.0)
Holoprosencephaly	11 (0.5)	0 (0.0)	0 (0.0)	<5 (†)	0 (0.0)
Hypoplastic left heart syndrome	71 (3.1)	8 (2.5)	10 (3.0)	<5 (†)	<5 (†)
Hypospadias	726 (62.8)	108 (66.9)	53 (30.9)	17 (24.2)	6 (40.2)
Interrupted aortic arch (IAA)	183 (8.1)	39 (12.3)	33 (9.8)	8 (5.8)	<5 (†)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Wisconsin

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Limb deficiencies (reduction defects)	59 (2.6)	10 (3.2)	9 (2.7)	<5 (†)	<5 (†)
Omphalocele	45 (2.0)	<5 (†)	9 (2.7)	<5 (†)	<5 (†)
Pulmonary valve atresia	9 (0.4)	0 (0.0)	<5 (†)	0 (0.0)	0 (0.0)
Pulmonary valve atresia and stenosis	89 (3.9)	<5 (†)	17 (5.1)	5 (3.6)	<5 (†)
Rectal and large intestinal atresia / stenosis	45 (2.0)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Renal agenesis / hypoplasia	135 (6.0)	16 (5.1)	23 (6.9)	7 (5.1)	<5 (†)
Single ventricle	10 (0.4)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Small intestinal atresia / stenosis	41 (1.8)	9 (2.8)	6 (1.8)	<5 (†)	0 (0.0)
Spina bifida without anencephaly	38 (1.7)	<5 (†)	8 (2.4)	0 (0.0)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Wisconsin

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	American Indian or Alaskan Native, Non-Hispanic
Tetralogy of Fallot (TOF)	64 (2.8)	11 (3.5)	7 (2.1)	5 (3.6)	<5 (†)
Total anomalous pulmonary venous connection (TAPVC)	12 (0.5)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Transposition of the great arteries (TGA)	59 (2.6)	<5 (†)	<5 (†)	<5 (†)	<5 (†)
Tricuspid valve atresia	9 (0.4)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Tricuspid valve atresia and stenosis	9 (0.4)	<5 (†)	<5 (†)	0 (0.0)	0 (0.0)
Trisomy 13	19 (0.8)	<5 (†)	<5 (†)	<5 (†)	0 (0.0)
Trisomy 18	40 (1.8)	6 (1.9)	10 (3.0)	6 (4.4)	0 (0.0)
Trisomy 21 (Down syndrome)	235 (10.4)	30 (9.5)	60 (17.9)	10 (7.3)	<5 (†)
Turner syndrome	21 (1.9)	<5 (†)	8 (4.9)	0 (0.0)	0 (0.0)

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

- †- Counts <5 and associated prevalences are suppressed
- *- Data for totals include unknown/other race

Wisconsin

Birth Defects Counts and Prevalence 2018-2022 (Prevalence per 10,000 Live Births)

Defect	Maternal Race/Ethnicity				
					American Indian or Alaskan Native, Non-Hispanic
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic, Non-Hispanic	Asian or Pacific Islander, Non-Hispanic	
Ventricular septal defect	993 (44.0)	126 (39.8)	147 (43.8)	45 (32.8)	18 (60.2)
Total live births	225751	31652	33545	13737	2991
Male Live Births	115670	16145	17145	7017	1492
Female Live Births	110080	15506	16398	6719	1499

Notes

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- 2- Data for this condition include female and unknown infant sex cases only. Prevalence is calculated per 10,000 female live births.
- 3- Data for total live births include unknown infant sex.

General comments

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other race

Wisconsin

Birth Defects Counts and Prevalence 2018-2022
(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Gastroschisis	96 (3.7)	6 (1.1)	102 (3.2)
Trisomy 13	18 (0.7)	10 (1.8)	28 (0.9)
Trisomy 18	33 (1.3)	32 (5.8)	65 (2.0)

Notes

†- Counts <5 and associated prevalences are suppressed

*- Data for totals include unknown/other maternal age

Wisconsin

Birth Defects Counts and Prevalence 2018-2022

(Prevalence per 10,000 Live Births)

Defect	Maternal Age		Total *
	Less than 35 years	35 of more years	
Trisomy 21 (Down syndrome)	167 (6.4)	175 (31.8)	342 (10.8)
Total live births	262358	54951	317309
Notes †- Counts <5 and associated prevalences are suppressed *- Data for totals include unknown/other maternal age			