温馨提示：以下内容均为外文报告原文，请外语不好的同学谨慎打开。

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POLITICS & SOCIETY

Birth defects in the U.S.

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CHAPTER 01

Overview

Rate of select birth defects in the United States from 2016 to 2020 (per 10,000 live births)

Rate of select birth defects in the U.S. 2016-2020

4 **Description:** In the period 2016-2020, considering the following birth defects, clubfoot was the most common birth defect among babies born in the United States, with almost 19 babies born with this defect per 10,000 live births. Clubfoot is a birth defect in which a baby's foot or feet are turned inward. This statistic shows the rate of select birth defects in the United States from 2016 to 2020. Read more.
Note(s): United States; 2016 to 2020
Source(s): Expert(s) (Stallings et al.); National Birth Defects Prevention Network; NIH

discharge diagnosis in 2019, by category (in U.S. dollars)

5 **Description:** ! " # ! $ % & # ' ! " # ! (" & ! Read more $ % & &) *
Note(s): United States; 2019; Younger than 65 years
Source(s): CDC; Expert(s) (Swanson J, Ailes EC, Cragan JD, et al.); MMWR

discharge diagnosis in 2019, by category (in U.S. dollars)

6 **Description:** ! ! " # ! $ % & # + , - ' . " # " # ' $ ' ! ! $ % & &) * Read more

Note(s): United States; 2019; Younger than 65 years
Source(s): CDC; Expert(s) (Swanson J, Ailes EC, Cragan JD, et al.); MMWR

Number of deaths among children under five due to congenital birth defects in the United States from 1980 to 2021 (per 100,000 people)

Mortality rates due to congenital birth defects in the United States 1980-2021

7 **Description:** The mortality rate among children under five due to congenital birth defects in the United States has decreased significantly since the year 1980. In 2021, the congenital birth defects mortality rate in the U.S. was 24.4 per 100,000 people. This statistic shows the under five mortality rate from congenital birth defects in the United States from 1980 to 2021. Read more

Note(s): United States; 1980 to 2021; under 5 years

Source(s): IHME; OWID

CHAPTER 02

Heart defects

Number of live births per one case of select heart birth defects in the United States as of 2024

Incidence of select heart birth defects in the United States as of 2024

	Number of births per one occurrence
Pulmonary valve atresia and stenosis	972
Atrioventricular septal defect (Endocardial cushion defect)	1712
Coarctation of the aorta	1712
Tetralogy of Fallot (TOF)	2077
Transposition of the great arteries (TGA)	3348
Hypoplastic left heart syndrome	3955
Dextro-transposition of great arteries(d-TGA)	3957
Double outlet right ventricle (DORV)	4237
Tricuspid valve atresia and stenosis	5527
Pulmonary valve atresia	6708
Total anomalous pulmonary venous connection (TAPVC)	7552
Interrupted aortic arch (IAA)	10058

Description: As of 2024, around one in 1,712 babies born in the United States had coarctation of the aorta. Coarctation of the aorta is a birth defect in which the aorta is narrowed or constricted, affecting blood flow. This statistic shows the number of live births per one case of select heart birth defects in the United States as of 2024. Read more

Note(s): United States; as of 2024

Source(s): CDC (National Center on Birth Defects and Developmental Disabilities (NCBDDD))

Number of babies affected each year by select heart birth defects in the United States as of 2024

Number of annual cases of select heart birth defects in the United States as of 2024

Number of babies affected each year

Description: As of 2024, around 2,146 babies were born each year in the United States with coarctation of the aorta. Coarctation of the aorta is a birth defect in which the aorta is narrowed or constricted affecting blood flow. This statistic shows the number of babies affected each year by select heart birth defects in the United States as of 2024. Read more

Note(s): United States; as of 2024

Source(s): CDC (National Center on Birth Defects and Developmental Disabilities (NCBDDD))

Rate of select cardiovascular birth defects in the United States from 2016 to 2020, by maternal race/ethnicity (per 10,000 live births)

Rate of cardiovascular birth defects in the U.S. from 2016-2020, by race

	Non-Hispanic white	Non-Hispanic Black	Hispanic	Non-Hispanic Asian or Pacific Islander
Atrioventricular septal defect (Endocardial cushion defect)	5.77	7.8	5.23	4.17
Coarctation of the aorta	6.58	4.37	5.71	3.47
Common truncus (truncus arteriosus or TA)	0.6	0.64	0.72	0.5
Double outlet right ventricle (DORV)	2.24	2.6	2.54	2.11
Ebstein anomaly	0.75	0.39	1.02	0.83
Hypoplastic left heart syndrome	2.63	2.9	2.5	1.03
Interrupted aortic arch (IAA)	1.01	1.47	0.86	0.37
Pulmonary valve atresia and stenosis	9.78	11.42	11.09	8.72
Pulmonary valve atresia	1.33	1.92	1.44	1.98
Single Ventricle	0.59	0.73	0.8	0.45
Tetralogy of Fallot (TOF)	4.49	5.86	4.78	5.12
Total anomalous pulmonary venous connection (TAPVC)	1.07	1.28	1.83	1.57

Description: In the period 2016-2020, babies born from non-Hispanic American Indian or Alaska Native mothers in the United States had the highest rates of coarctation of the aorta, with around 8.4 babies born with this defect per 10,000 live births. Coarctation of the aorta is a birth defect in which the aorta is narrowed or constricted affecting blood flow. This statistic shows the rate of select cardiovascular birth defects in the United States from 2016 to 2020, by maternal race/ethnicity. Read more.
Note(s): United States; 2016 to 2020
Source(s): Expert(s) (Stallings et al.); National Birth Defects Prevention Network; NIH

Rate of ventricular septal defects among babies in the United States from 2016 to 2020, by state (per 10,000 live births)

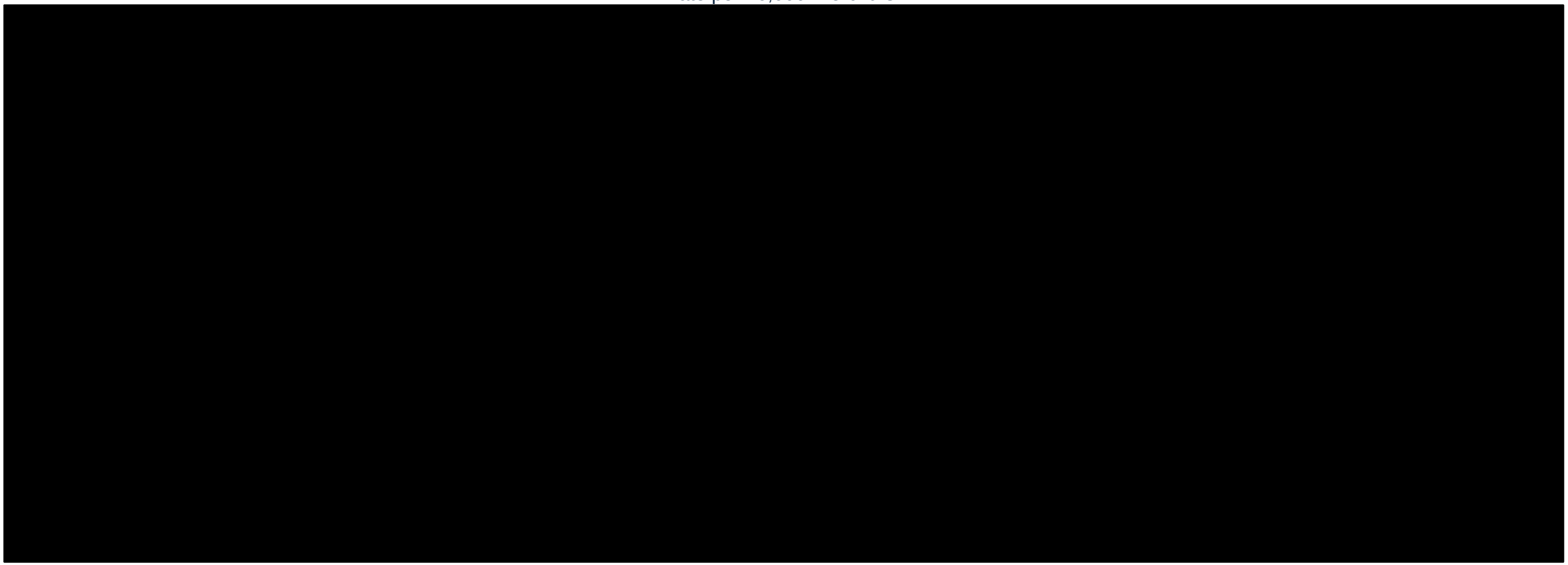
Rate of ventricular septal defects among U.S. babies from 2016 to 2020, by state

Description: From 2016 to 2020, the states of Nevada and Alaska had the highest rates of ventricular septal defects among babies. During this period, almost 91 babies per 10,000 born in Nevada had a ventricular septal defect. A ventricular septal defect is a congenital heart defect in which there is a hole in the wall separating the two ventricles. This statistic shows the rate of ventricular septal defects among babies in the United States from 2016 to 2020, by state (per 10,000 live births). Read more.
Note(s): United States; January 1, 2016 to December 31, 2020
Source(s): National Birth Defects Prevention Network

Rate of pulmonary valve atresia and stenosis among babies in the United States from 2016 to 2020, by state (per 10,000 live births)

Rate of pulmonary valve atresia/stenosis among U.S. babies, 2016-2020, by state

Rate per 10,000 live births



Description: From 2016 to 2020, Michigan and Vermont had the highest rates of babies with pulmonary valve atresia and stenosis. During this period, around 16.1 babies per 10,000 born in these states had pulmonary valve atresia and stenosis. Pulmonary valve atresia and stenosis are congenital heart defects. This statistic shows the rate of pulmonary valve atresia and stenosis among babies in the United States from 2016 to 2020, by state (per 10,000 live births). Read more

Note(s): United States; January 1, 2016 to December 31, 2020

Source(s): National Birth Defects Prevention Network

Average life span for select complex congenital heart defects in the U.S. as of 2024

Average life span for complex congenital heart defects in the U.S. as of 2024

Description: The average life span for a person born with hypoplastic left heart syndrome (HLHS) in the United States was around 30 years as of 2024. Hypoplastic left heart syndrome (HLHS) is a rare congenital heart defect. Treatment may include multiple surgeries and even a heart transplant. This statistic shows the average life expectancy for select complex congenital heart defects in the U.S. as of 2024. Read more

Note(s): United States; As of 2024

Source(s): Additional Ventures; Expert(s) (Diane M Pickles and Kirstie Keller, PhD)

Average annual direct and indirect costs per patient for select complex congenital heart defects in the U.S. as of 2024 (in U.S. dollars)

Average annual costs of complex congenital heart defects in the U.S. as of 2024

Description: A report published in 2024 estimated that the average annual direct and indirect costs of hypoplastic left heart syndrome (HLHS) totaled almost 95 thousand U.S. dollars. Hypoplastic left heart syndrome (HLHS) is a rare congenital heart defect. Treatment may include multiple surgeries and even a heart transplant. This statistic shows the average annual direct and indirect costs per patient for select complex congenital heart defects in the U.S. as of 2024. Read more.
Note(s): United States; As of 2024
Source(s): Additional Ventures; Expert(s) (Diane M Pickles and Kirstie Keller, PhD)

Lifetime costs per patient for select complex congenital heart defects in the U.S. as of 2024 (in million U.S. dollars)

Lifetime costs of complex congenital heart defects in the U.S. as of 2024

Description: A report published in 2024 estimated that the average lifetime costs of hypoplastic left heart syndrome (HLHS) were around 2.9 million U.S. dollars. Hypoplastic left heart syndrome (HLHS) is a rare congenital heart defect. Treatment may include multiple surgeries and even a heart transplant. This statistic shows the average lifetime costs per patient for select complex congenital heart defects in the U.S. as of 2024. Read more

Note(s): United States; As of 2024

Source(s): Additional Ventures; Expert(s) (Diane M Pickles and Kirstie Keller, PhD)

" #

associated discharge diagnosis in 2019 (in U.S. dollars)

Mean cost of U.S. hospitalizations with a cardiovascular birth defect, 2019

Mean cost in U.S. dollars

Description: In 2019, it was estimated that the mean cost of hospitalizations with a coarctation of the aorta discharge diagnosis among those aged less than 65 years was around 80,521 U.S. dollars. Coarctation of the aorta is a birth defect in which the aorta is ! " # ! Read more $ % &

Note(s): United States; 2019; Younger than 65 years
Source(s): CDC; Expert(s) (Swanson J, Ailes EC, Cragan JD, et al.); MMWR

CHAPTER 03

Chromosomal defects

Number of live births per one case of select chromosome (gene) malformation birth defects in the United States as of 2024

Incidence of select chromosome birth defects in the United States as of 2024

	Number of births per one occurrence
Trisomy 21 (Down syndrome)	643
Trisomy 18	3336
Trisomy 13	6967

Description: As of 2024, around one in 643 babies born in the United States had trisomy 21, more commonly known as Down syndrome. Down syndrome is a genetic condition that can affect how the brain and body develop and is the most common chromosomal condition in the United States. This statistic shows the number of live births per one case of select chromosome (gene) malformation birth defects in the United States as of 2024. Read more

Note(s): United States; as of 2024

Source(s): CDC (National Center on Birth Defects and Developmental Disabilities (NCBDDD))

Number of babies affected each year by select chromosome (gene) malformation birth defects in the United States as of 2024

Number of annual cases of select chromosome birth defects in the U.S. as of 2024

Description: As of 2024, around 5,713 babies born each year in the United States had trisomy 21, more commonly known as Down syndrome. Down syndrome is a genetic condition that can affect how the brain and body develop and is the most common chromosomal condition in the United States. This statistic shows the number of babies affected each year by select chromosome (gene) malformation birth defects in the United States as of 2024. Read more

Note(s): United States; as of 2024

Source(s): CDC (National Center on Birth Defects and Developmental Disabilities (NCBDDD))

Number of live births per one incidence of Down syndrome in the United States as of 2024, by maternal age

Incidence of Down syndrome in the United States as of 2024, by age

21 **Description:** Older women are at an increased risk of having a child with Down syndrome. For example, among women aged 20 years, the chances of conceiving a child with Down syndrome is about one in 2,000. In comparison, among women aged 49 years, the chances of conceiving a child with Down syndrome is about one in 10. This statistic shows the incidence of Down syndrome in the United States as of 2024, by maternal age. Read more

Note(s): United States; as of 2024

Source(s): National Down Syndrome Society

Rate of select chromosome (gene) malformation birth defects in the United States from 2016 to 2020, by age (per 10,000 live births)

Rate of chromosome (gene) malformation birth defects in the U.S. 2016-2020, by age

Description: In the period 2016-2020, babies born to women aged 40 years and older in the United States had the highest rates of Down syndrome, with around 121 babies born with this defect per 10,000 live births. Down syndrome is a genetic condition that can affect how the brain and body develop and is the most common chromosomal condition in the United States. This statistic shows the rate of select chromosome (gene) malformation birth defects in the United States from 2016 to 2020, by age. Read more

Note(s): United States; 2016 to 2020

Source(s): Expert(s) (Stallings et al.); National Birth Defects Prevention Network; NIH

Rate of select chromosome (gene) malformation birth defects in the United States from 2016 to 2020, by maternal race/ethnicity (per 10,000 live births)

Rate of chromosome (gene) malformation birth defects in the U.S. 2016-2020, by race

Description: In the period 2016-2020, babies born from Hispanic mothers in the United States had the highest rates of Down syndrome, with around 18.2 babies born with this defect per 10,000 live births. Down syndrome is a genetic condition that can affect how the brain and body develop and is the most common chromosomal condition in the United States. This statistic shows the rate of select chromosome (gene) malformation birth defects in the United States from 2016 to 2020, by maternal [...] Read more

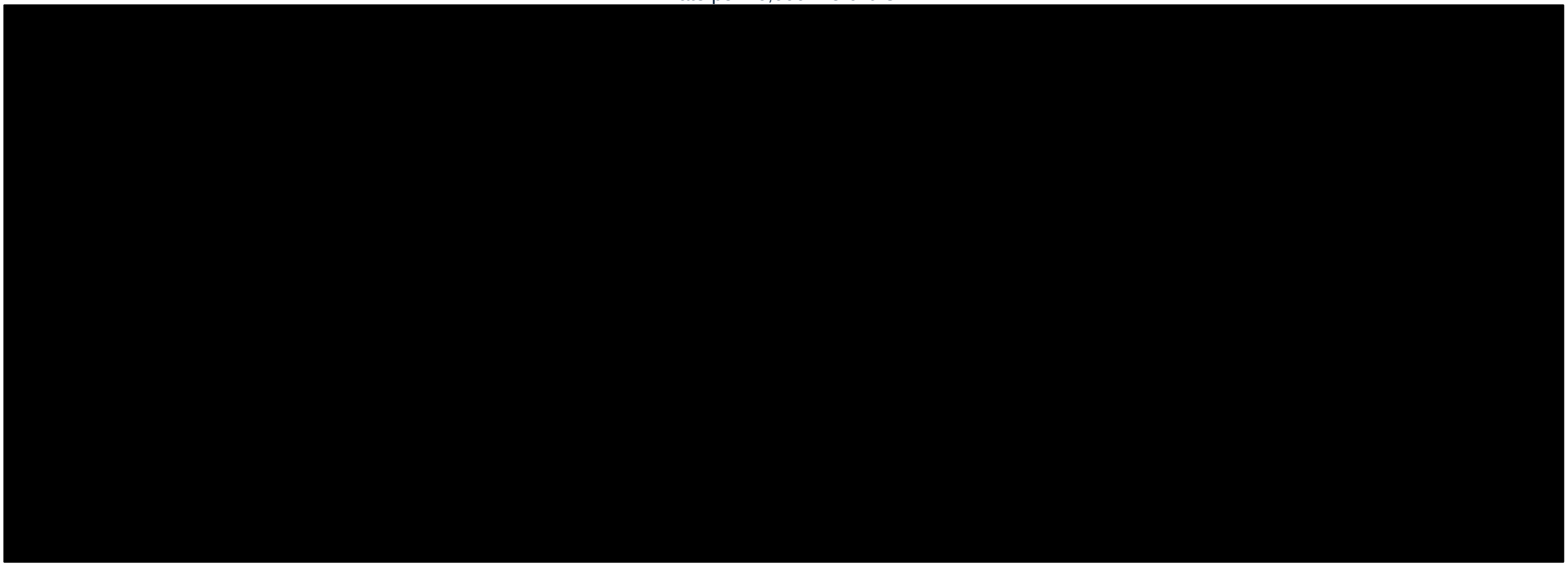
Note(s): United States; 2016 to 2020

Source(s): Expert(s) (Stallings et al.); National Birth Defects Prevention Network; NIH

Rate of Down syndrome among babies in the United States from 2016 to 2020, by state (per 10,000 live births)

Rate of Down syndrome among U.S. babies from 2016 to 2020, by state

Rate per 10,000 live births



Description: From 2016 to 2020, Massachusetts had the highest rate of Down syndrome among babies. During this period, around 32 babies per 10,000 born in Massachusetts had Down syndrome. This statistic shows the rate of trisomy 21, also known as Down syndrome, among babies in the United States from 2016 to 2020, by state (per 10,000 live births). Read more

Note(s): United States; January 1, 2016 to December 31, 2020

Source(s): National Birth Defects Prevention Network

associated discharge diagnosis in 2019 (in U.S. dollars)

Mean cost of U.S. hospitalizations with a chromosomal birth defect, 2019

Mean cost in U.S. dollars

Description: In 2019, it was estimated that the mean cost of hospitalizations with a trisomy 21, also known as Down syndrome, discharge diagnosis among those aged less than 65 years was around 26,654 U.S. dollars. Down syndrome is a genetic condition that can

Read more

Note(s): United States; 2019; Younger than 65 years

Source(s): CDC; Expert(s) (Swanson J, Ailes EC, Cragan JD, et al.); MMWR

CHAPTER 04

Mouth, face, and eye defects

Number of live births per one case of select mouth, face, and eye birth defects in the United States as of 2024

Incidence of select mouth/face/eye birth defects in the United States as of 2024

	Number of births per one occurrence
Cleft lip with and without cleft palate	1032
Cleft lip with cleft palate	1583
Cleft palate alone	1583
Cleft lip alone	2963
Anophthalmia/microphthalmia	5078

Description: As of 2024, around one in 1,583 babies born in the United States had a cleft lip with a cleft palate. Cleft lip and cleft palate are birth defects in which a baby's lip or mouth do not properly form. This statistic shows the number of live births per one case of select mouth/face/eye birth defects in the United States as of 2024. Read more

Note(s): United States; as of 2024

Source(s): CDC (National Center on Birth Defects and Developmental Disabilities (NCBDDD))

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