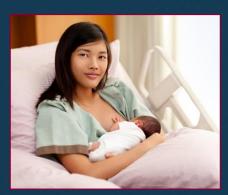
MAKING THE MOST OF CDC'S BREASTFEEDING DATA AND RESOURCES

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Centers for Disease Control and Prevention

National Center for Chronic Disease Prevention and Health Promotion



Division of Nutrition, Physical Activity, and Obesity

DISCLOSURES: NONE

- I have no financial relationships with commercial interests that pertain to the content presented in this program.
- The information in this presentation is that of the authors and does not necessarily represent the official position of the Centers for Disease Control and Prevention

OVERVIEW

- Describe CDC's primary breastfeeding surveillance activities and the latest breastfeeding rates
- Explain the National Immunization Survey and breastfeeding rates
- Demonstrate how to use CDC breastfeeding data to examine breastfeeding rates in your states over time
- Describe the Maternity Practices in Infant Nutrition and Care (mPINC) survey and reports
- Share CDC breastfeeding resources
- Q&A

DNPAO STRATEGIC PRIORITIES

Reaching All Americans Across the Lifespan by Supporting

A Healthy Start for Infants



Children & Youth Growing Up Strong & Healthy



Adults & Older Adults Maintaining a Healthy Lifestyle



- Breastfeeding
- Maternal, Infant & Toddler Nutrition
- Vitamins & Minerals
- Good Nutrition & Healthy Food Environments
- Physical Activity & Access to Environments
 Designed for Physical Activity
- Healthy Weight Management & Obesity Prevention

BREASTFEEDING

The Problem

1 in 4

Only 1 in 4 infants is exclusively breastfed as recommended by the time they are 6 months old



Low rates of breastfeeding add more than **\$3 billion** a year to medical costs for the mother and child in the United States



Black infants are 15% less likely to have ever been breastfed than white infants

Bartick, M. C., Schwarz, E. B., Green, B. D., et al. (2016), Suboptimal breastfeeding in the United States: Maternal and pediatric health outcomes and costs, Maternal & Child Nutrition.

https://www.cdc.gov/breastfeeding/data/nis data/results.html

CDC'S STRATEGIES TO SUPPORT BREASTFEEDING

1

Improve Hospital
Support for
Breastfeeding

2

Improve Support for Employed Women 3

Improve Community
Support for
Breastfeeding



Our Goal

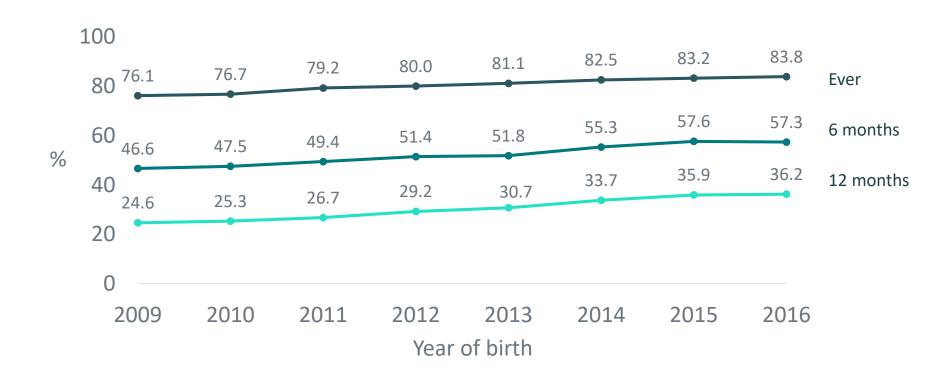
We want to ensure that if a mom wants to breastfeed, she has the supports in place to start and continue to do so

THE STATE OF BREASTFEEDING

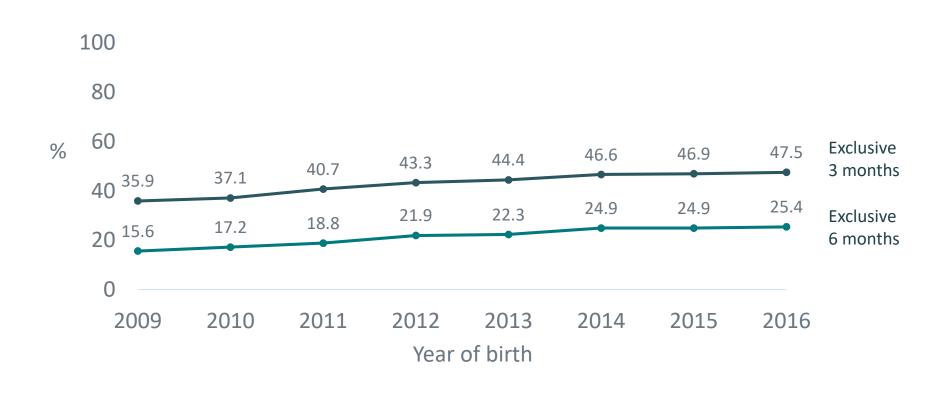
NATIONAL OBJECTIVES AND BREASTFEEDING RATES IN THE U.S.

	Healthy People 2020 Objectives	Target
MICH**-21.1	Increase the proportion of infants who are breastfed: Ever	81.9%
MICH-21.2	Increase the proportion of infants who are breastfed: At 6 months	60.6%
MICH-21.3	Increase the proportion of infants who are breastfed: At 1 year	34.1%
MICH-21.4	Increase the proportion of infants who are breastfed: Exclusively through 3 months	46.2%
MICH-21.5	Increase the proportion of infants who are breastfed: Exclusively through 6 months	25.5%
MICH-22	Increase the proportion of employers that have worksite lactation support programs.	38.0%
MICH-23	Reduce the proportion of breastfed newborns who receive formula supplementation within the first 2 days of life.	14.2%
MICH-24	Increase the proportion of live births that occur in facilities that provide recommended care for lactating mothers and their babies.	8.1%

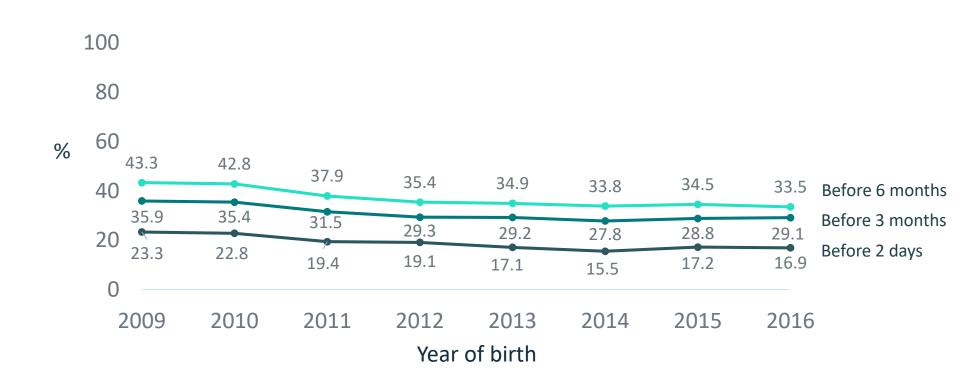
U.S. BREASTFEEDING RATES AMONG CHILDREN BORN IN 2009–2016



U.S. EXCLUSIVE BREASTFEEDING RATES AMONG CHILDREN BORN IN 2009–2016



U.S. BREASTFED INFANTS WHO WERE SUPPLEMENTED WITH INFANT FORMULA



MORE BIRTHS ARE OCCURRING IN HOSPITALS THAT SUPPORT BREASTFEEDING

2018 Milestone: One Million Babies born in Baby-Friendly Facilities each Year!



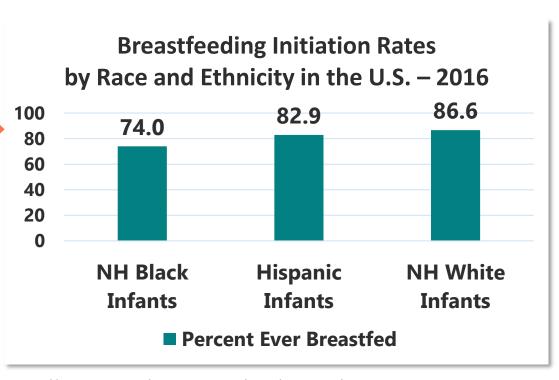
	Healthy People 2020 Objectives	Target	Current [,]
MICH**-21.1	Increase the proportion of infants who are breastfed: Ever	81.9%	83.8%
MICH-21.2	Increase the proportion of infants who are breastfed: At 6 months	60.6%	57.3%
MICH-21.3	Increase the proportion of infants who are breastfed: At 1 year	34.1%	36.2%
MICH-21.4	Increase the proportion of infants who are breastfed: Exclusively through 3 months	46.2%	47.5%
MICH-21.5	Increase the proportion of infants who are breastfed: Exclusively through 6 months	25.5%	25.4%
MICH-22	Increase the proportion of employers that have worksite lactation support programs.	38.0%	51.0%
MICH-23	Reduce the proportion of breastfed newborns who receive formula supplementation within the first 2 days of life.	14.2%	16.9%
MICH-24	Increase the proportion of live births that occur in facilities that provide recommended care for lactating mothers and their babies.	8.1%	26.1%

MICH: Maternal, Infant, and Child Health

 $^{^{\}dagger} Source: https://www.cdc.gov/breastfeeding/data/nis_data/results.html$

DISPARITIES EXIST IN BREASTFEEDING RATES BY RACE AND ETHNICITY

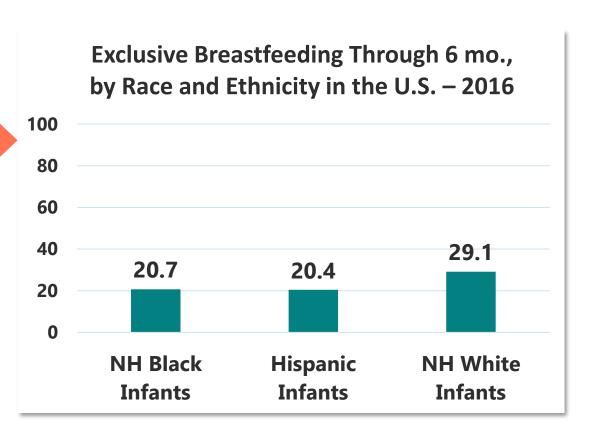
Breastfeeding rates are rising overall, but disparities remain:



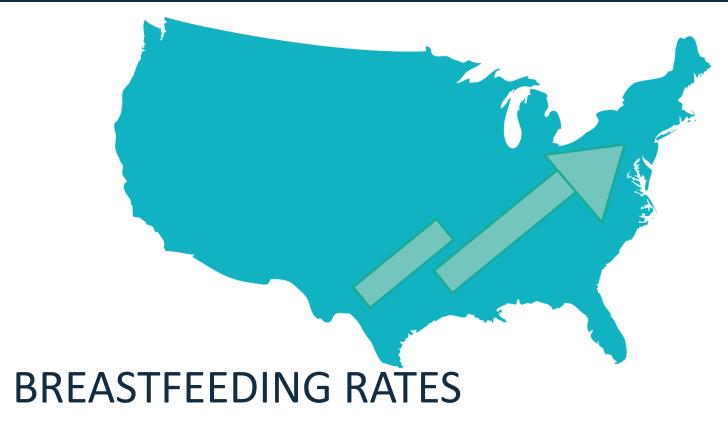
https://www.cdc.gov/breastfeeding/data/nis_data/results.html

DISPARITIES EXIST IN BREASTFEEDING RATES BY RACE AND ETHNICITY

Breastfeeding rates are rising overall, but disparities remain:



https://www.cdc.gov/breastfeeding/data/nis_data/results.html



USING NATIONAL AND STATE LEVEL BREASTFEEDING DATA

NATIONAL IMMUNIZATION SURVEY (NIS)

Household, population-based estimates of vaccination coverage among children & teens

- Breastfeeding questions added in 2001
- Telephone interviews with parents or guardians in 50 states, D.C., and some U.S. territories
- Breastfeeding data are obtained by maternal recall when children are between 19 to 35 months of age
- From 2002-2008 landline sampling frame
- Starting in 2009 dual-frame sample (landline or cellular)
- National and state estimates
- Initiation, duration, exclusivity
- Demographic characteristics

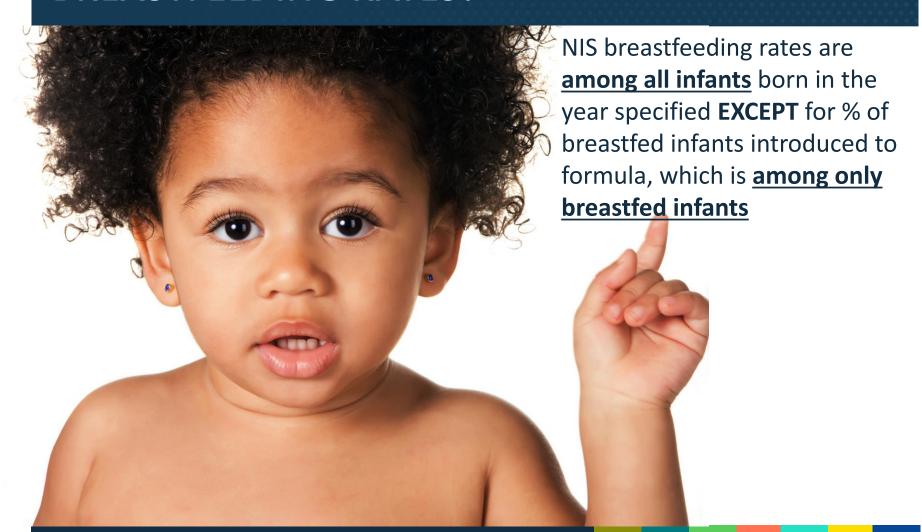


NIS BREASTFEEDING QUESTIONS



- Was [child] ever breastfed or fed breast milk?
- 2. How old was [child's name] when [child's name] completely stopped breastfeeding or being fed breast milk?
- 3. How old was [child's name] when (he/she) was first fed formula?
- 4. This next question is about the first thing that [child] was given other than breast milk or formula. Please include juice, cow's milk, sugar water, baby food, or anything else that [child] may have been given, even water. How old was [child's name] when (he/she) was first fed anything other than breast milk or formula?

WHAT IS THE DENOMINATOR FOR THE BREASTFEEDING RATES?



NATIONAL IMMUNIZATION SURVEY (NIS)

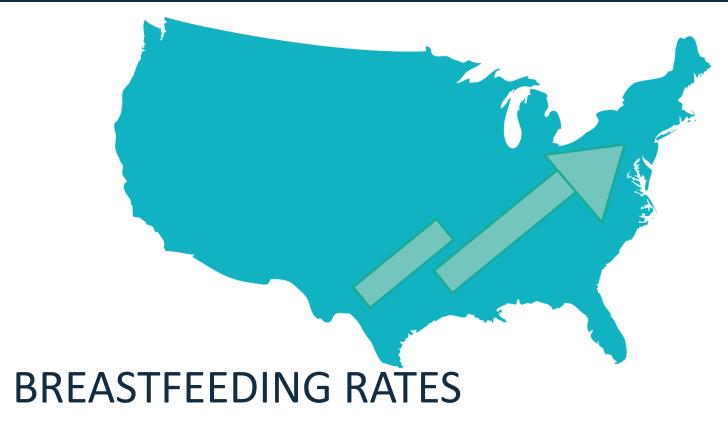


- Why are there differences in breastfeeding rates by state from year to year?
 - Sample sizes are relatively small, so there is a wide margin of error around state-level estimates
 - Statistical tests of change show the differences by state from one year to the next – these are generally not significant
 - States should look at trends in rates over several years

NATIONAL IMMUNIZATION SURVEY (NIS)

- Why does the NIS data seem so behind and out-of-date?
 - 2019 rates are among children born in 2016, which includes data from the 2017 and 2018 survey years
 - To capture breastfeeding duration, the data are obtained by maternal recall when children are between 19 to 35 months of age
 - We analyze the data by birth year rather than survey year, which has more public health relevance

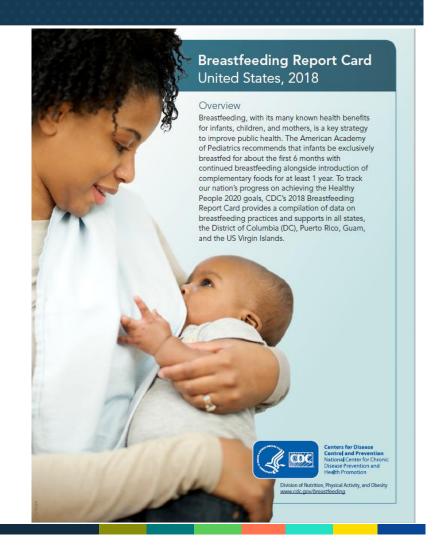




USING NATIONAL AND STATE LEVEL BREASTFEEDING DATA

BREASTFEEDING REPORT CARD

- Provides state-by-state data
 - breastfeeding initiation, duration, & exclusivity
 - formula before 2 days of age
 - births at Baby-Friendly hospitals
- Annually from 2007-2014
- Every other year starting in 2014
- Annual data is available online for some indicators
- Helps public health practitioners, policy makers, health professionals, and community members



PUTTING THE BREASTFEEDING REPORT CARD TO USE



Call to Action

Use your state's data to:

- help tell the story of breastfeeding practices and support
- monitor progress and celebrate state successes
- begin building more comprehensive state profiles that capture the landscape of breastfeeding support
- identify opportunities for growth and improvement in maternity care practices

BREASTFEEDING DATA, TRENDS, AND MAPS

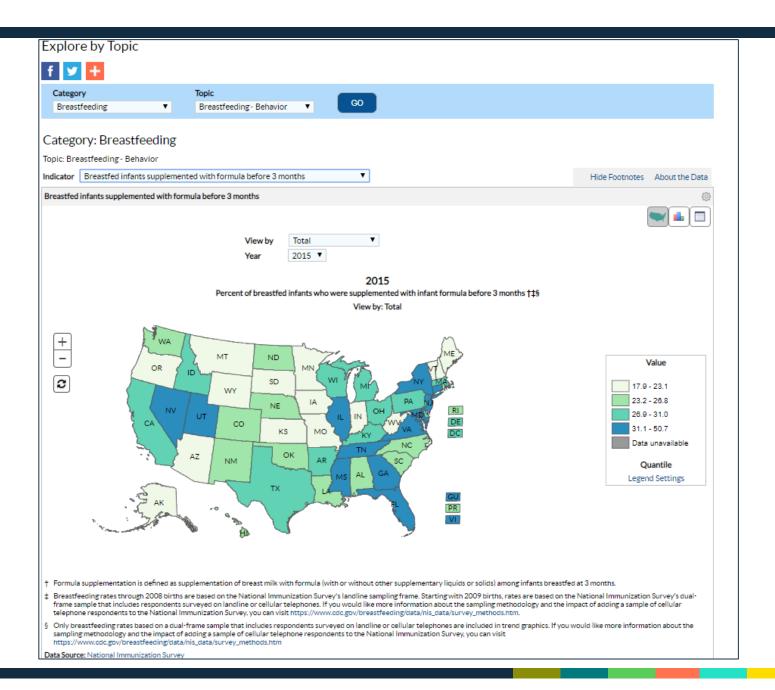
- DNPAO provides interactive state-by-state and national data via clickable maps, charts, and tables
- Provides the most recent health and behavior data, including breastfeeding
 - Rates
 - mPINC scores
 - Births at Baby-Friendly facilities
- Export data & save visualizations
- NOTE: 2016 data will be available soon

Select a topic to see nationwide maps, charts, and tables

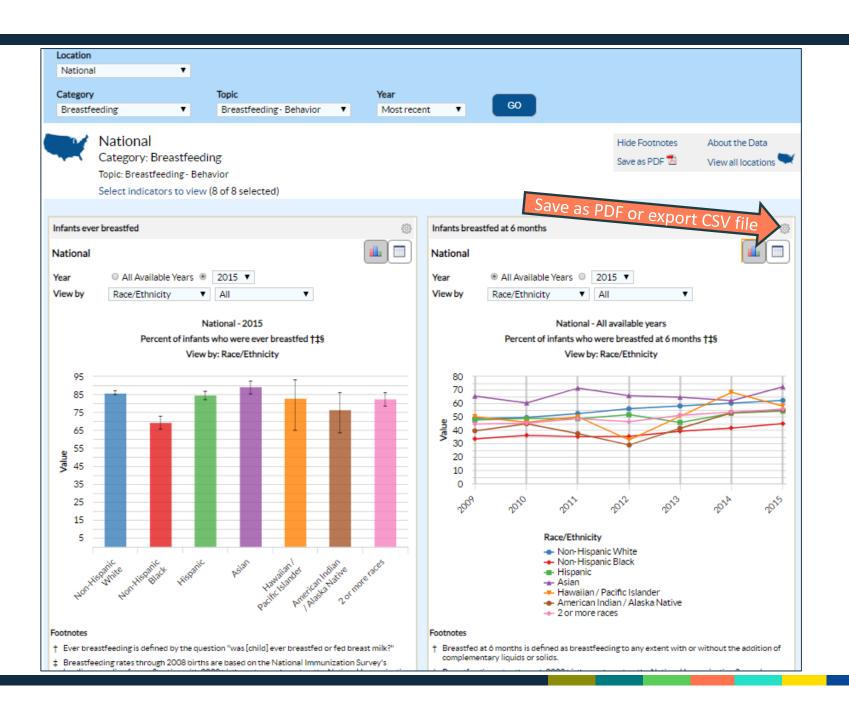


PUTTING DATA, TRENDS, AND MAPS TO USE

Explore by Location / View all topics for one location View One Indicator for All Locations To learn more about the health status and behaviors of residents of a particular state or for View indicators for all locations which have data available. To the nation, you can either click on a state in the map or use the drop-down menu. You can choose an indicator, first select a Category, then select a Topic. explore different topics by demographics and year. Category Breastfeeding Location National Topic Breastfeeding - Behavior Use the Data Portal GO Need to work with Data, Trends, and Maps data directly? Go to the Nutrition, Physical Activity, and Obesity: Data, Trends, and Maps Data Portal to create your own filtered dataset, customize visualizations, and download data. Nutrition, Physical Activity, and Obesity Data Portal > **Site Resources** · About the Data Contact Us









Category: Breastfeeding Location: North Carolina, Year: 2015 Select up to 8 indicators to view (8 of 8 selected) Clear All Infants ever breastfed Infants breastfed at 6 months Infants breastfed at 12 months Infants exclusively breastfed through 3 months Infants exclusively breastfed through 6 months

Cancel

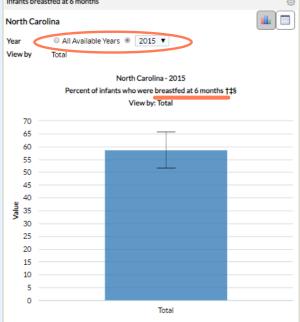
OK



- ‡ Breastfeeding rates through 2008 births are based on the National Immunization Survey's landline sampling frame. Starting with 2009 births, rates are based on the National Immunization Survey's dual-frame sample that includes respondents surveyed on landline or cellular telephones. If you would like more information about the sampling methodology and the impact of adding a sample of cellular telephone respondents to the National Immunization Survey, you can visit https://www.coc.gov/breastfeeding/data/his_data/survey_methods.htm.
- § Only breastfeeding rates based on a dual-frame sample that includes respondents surveyed on landline or cellular telephones are included in trend graphics. If you would like more information about the sampling methodology and the impact of adding a sample of cellular telephone respondents to the National Immunization Survey, you can visit

https://www.cdc.gov/breastfeeding/data/nis_data/survey_methods.htm

Data Source: National Immunization Survey

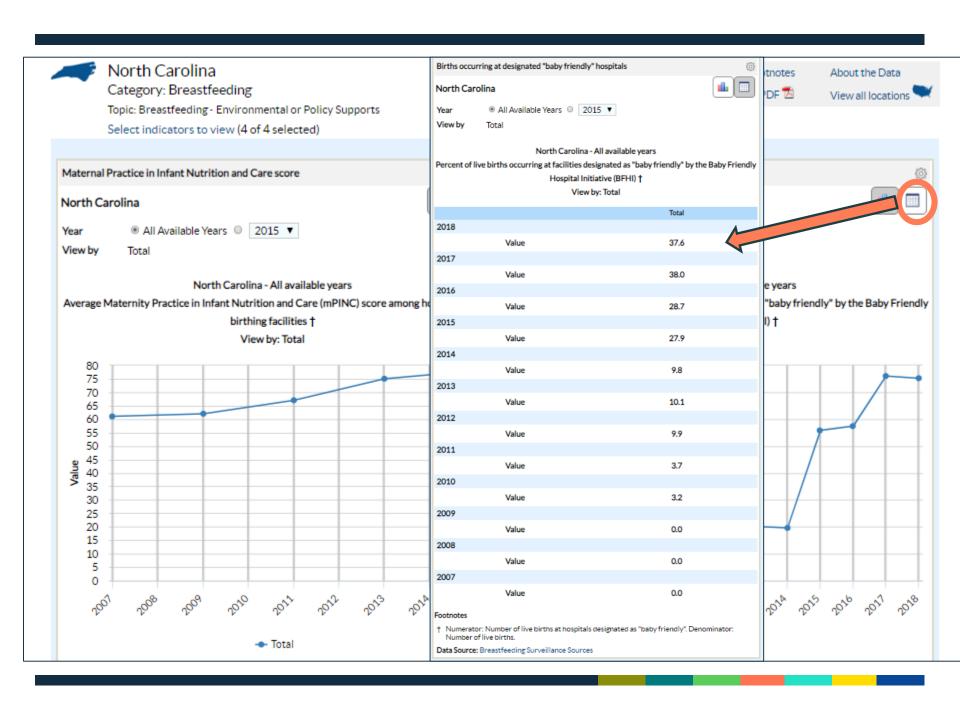


Footnotes

- † Breastfed at 6 months is defined as breastfeeding to any extent with or without the addition of complementary liquids or solids.
- ‡ Breastfeeding rates through 2008 births are based on the National Immunization Survey's landline sampling frame. Starting with 2009 births, rates are based on the National Immunization Survey's dual-frame sample that includes respondents surveyed on Inadiline or cellular telephones. If you would like more information about the sampling methodology and the impact of adding a sample of cellular telephone respondents to the National Immunization Survey, you can visit https://www.oci.cgov/breastfeeding/data/his_data/survey_methods.htm.
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Data Source: National Immunization Survey







MATERNITY CARE PRACTICES

USING MPINC STATE REPORTS

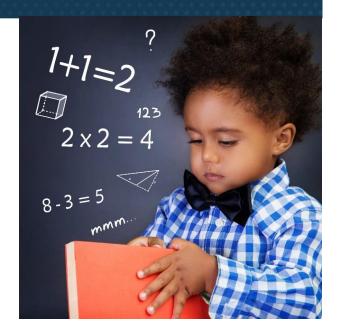
MPINC SURVEY OVERVIEW

- Assessment of maternity care practices in the usual care of healthy, term infants and their healthy mothers.
- Biennial census (from 2007-2015) of all hospitals and birth centers that provide maternity care services.
- Redesigned in 2018
 - Hospitals only
 - Online only
 - Data are currently being analyzed



MPINC SURVEY – TOPICS INCLUDED

- Hospital demographic information
- Skin-to-skin
- Rooming-in
- Feeding Practices
- Feeding Education
- Staff Competency
- Management procedures
- Policies
- Emerging topics (e.g., Neonatal Abstinence Syndrome)



MPINC BENCHMARK REPORTS



Benchmark Reports

- Customized report for each participating hospital
- Compares hospital practice to other hospitals in U.S., state, of similar size
- Stimulates improved practice
- Hard copies mailed to administrators and managers

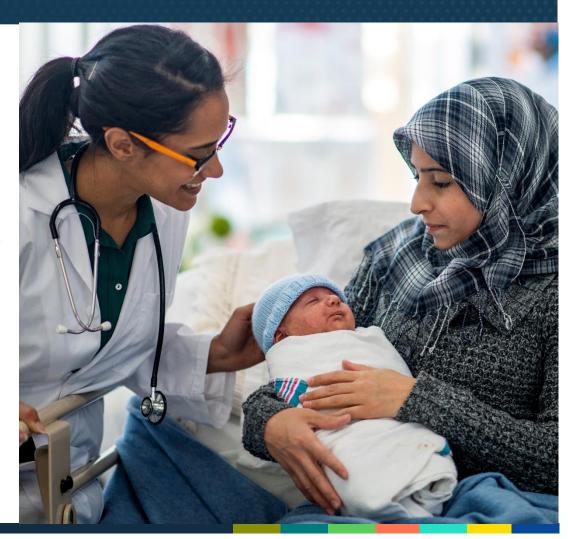


MPINC STATE REPORTS

State Reports

- Summarize strengths & areas in need of improvement.
- Comprehensive frequency tables by state & facility type
- Emailed to state-level organizations& others





MAKING USE OF MPINC DATA

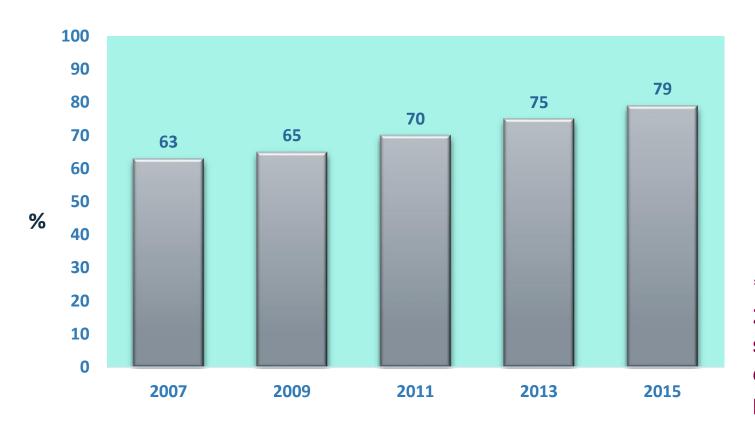
- Use the mPINC survey to guide quality improvement work
 - Set benchmarks
 - Define data collection processes (review and analyze frequently)
 - Get leadership and administration buy-in
 - Identify opportunities for improvement
 - Aim to improve equitable care
 - Use Plan-Do-Study-Act, or PDSA models, to make incremental changes
 - Help hospitals meet Joint Commission Perinatal Care Core Measure breastfeeding requirements





MPINC TOTAL SCORES – 2007-2015*

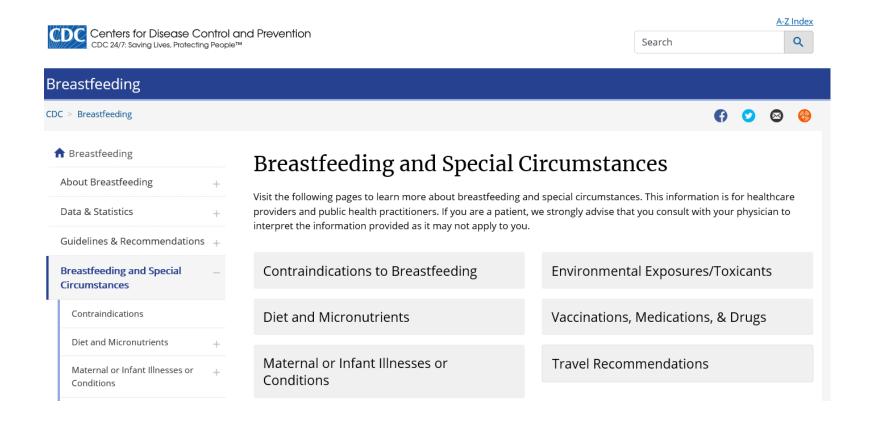


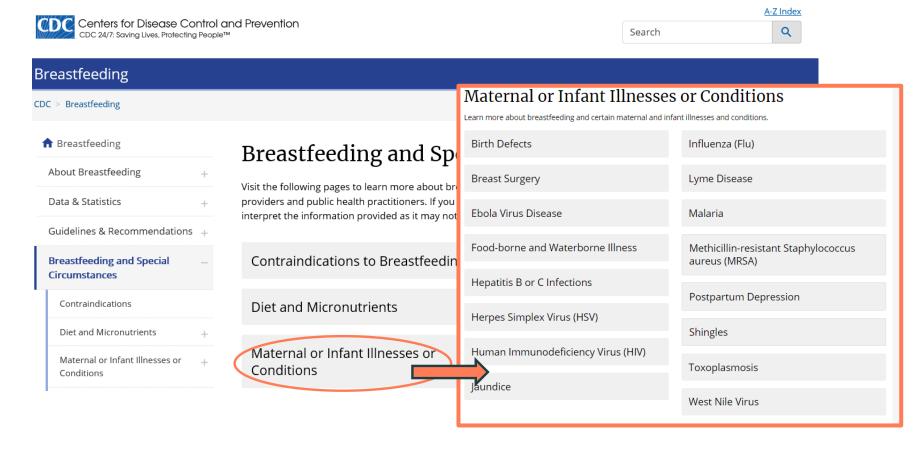


*Please Note:
2018 mPINC
scores will not be
comparable to
previous scores.

SUMMARY: PUT CDC BREASTFEEDING DATA TO USE

- Examine differences in breastfeeding rates by various socio-demographic factors
- Examine trends in breastfeeding rates over time
- Use the data to make comparisons you haven't seen before and find your story
- Compare to the peer state your legislators talk about by name
- Encourage hospitals to integrate maternity care into related quality improvement efforts & track quality measures to drive improvement
- Identify low-hanging fruit and make small, incremental changes
- Establish programs that recognize hospital and community efforts that improve breastfeeding rates
- Celebrate successes!





Alcohol

Not drinking alcohol is the safest option for breastfeeding mothers. However, moderate alcohol consumption (up to 1 drink/day) is not known to be harmful to the infant.

Is it safe for mothers to breastfeed the infant if they have consumed alcohol?

Not drinking alcohol is the safest option for breastfeeding mothers. Generally, moderate alcohol consumption by a breastfeeding mother (up to 1 standard drink per day) is not known to be harmful to the infant, especially if the mother waits at least 2 hours after a single drink before nursing. However, exposure to alcohol above moderate levels through breast milk could be damaging to an infant's development, growth, and sleep patterns. Alcohol consumption above moderate levels may also impair a mother's judgment and ability to safely care for her child.

Drinking alcoholic beverages is not an indication to stop breastfeeding; however, consuming more than one drink per day is not recommended.

Can alcohol be found in breast milk?

Yes. Alcohol levels are usually highest in breast milk 30-60 minutes after an alcoholic beverage is consumed, and can be generally detected in breast milk for about 2-3 hours per drink after it is consumed. However, the length of time alcohol can be detected in breast milk will increase the more alcohol a mother consumes. For example, alcohol from 1 drink can be detected in breast milk for about 2-3 hours, alcohol from 2 drinks can be detected for about 4-5 hours, and alcohol from 3 drinks can be detected for about 6-8 hours, and so on. However, blood alcohol levels and the length of time alcohol can

"bat is "moderate consumption"?

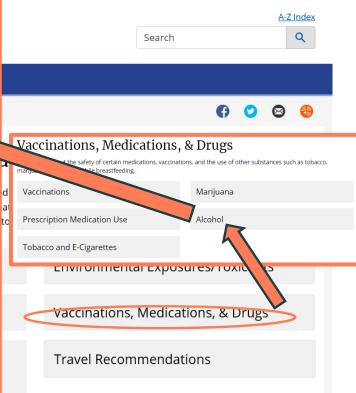
moderate for women of legal drinking age as up to drink per day.

What is a "drink"?

The Dietary Guidelines for Americans

defines a standard "drink" as 12 ounces of 5% beer; 8 ounces of 7% malt liquor; 5 ounces of 12% wine; or 1.5 ounces of 40% (80 proof) liquor. All of these drinks contain the same amount (i.e., 14 grams, or 0.6 ounces) of pure alcohol. However, many common drinks contain much more alcohol than this. For example, 12 ounces of 9% beer contains nearly the same amount of alcohol as two (1.8) standard drinks. Consuming one of these drinks would be the equivalent of two standard drinks.

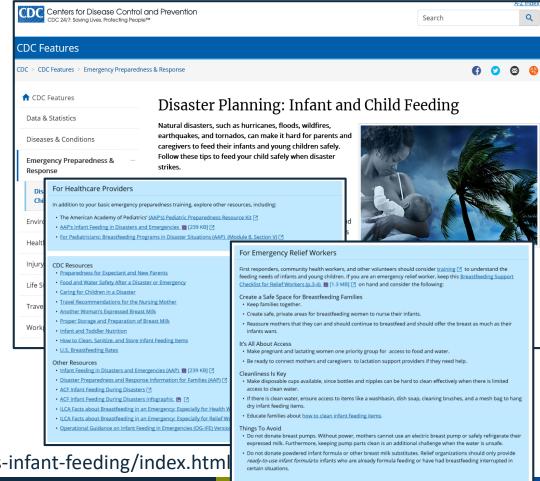




https://www.cdc.gov/breastfeeding/breastfeeding-special-circumstances

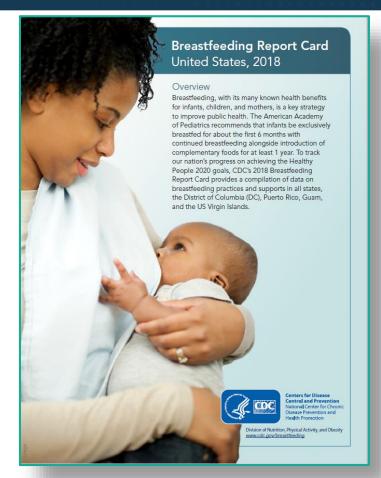
DISASTER PLANNING

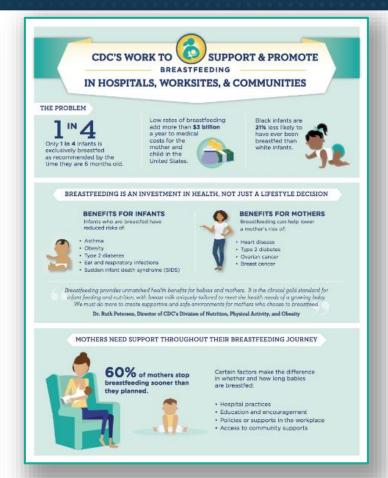
- Parents/Caregivers
 - Breastfeeding
 - Formula Feeding
- Emergency Relief Workers
- Healthcare Providers
- CDC Resources
- Other Resources



https://www.cdc.gov/features/disasters-infant-feeding/index.html

FACT SHEETS AND REPORTS





MAKE BREASTFEEDING RESOURCES WIDELY AVAILABLE

Strategies to Prevent Obesity and Other Chronic Diseases

The CDC Guide to Strategies to Support Breastfeeding Mothers and Babies



National Center for Chronic Disease Prevention and Health Promotion



Breastfeeding and Early Care and Education (ECE)

Help ECE centers and homes make an impact by supporting breastfeeding moms

The American Academy of Pediatrics (AAP) recommends that Infants be exclusively breastfied for the first 6 months bd., on about 25% of Infants are. 60% of mothers stop breastfeeding earlier than they want to. Several factors affect breastfeeding ouration including support women receive from family members, health care providers, their workplace, and ECE facilities.



provider the more likely she will

ives from her ECE

To meet national standards for supporting breastfeeding, ECE centers and family homes alike can:

- Provide a private space for mothers to breastfeed or express milk
- Allow and encourage mothers to breastfeed at the facility
 Train all staff to prepare, feed, and store breast milk properly
- Develop a breastfeeding-friendly feeding plan with each family
- Make sure breastfed infants are fed expressed breast milk at appropriate intervals
- Teach families to properly store and label their breast milk for use in an ECE facility

For a comprehensive list of national standards to support breastfeeding in ECE refer to: Caring for Our Children: National Health and Safety Performance Standards (CFOC). 3rd ed. http://nrckids.org/CFOC

The Centers for Disease Control and Prevention's (CDC) Spectrum of Opportunities framework list several ways that states and communities can embed and support these standards in their EEE systems. Examples include licensing regulations, the Cliff and AdultiC user local Program (CAFF), adulty listing and inforeoverent Systems (QRIS), and pre-service and professional development opportunities. For a full description of CDC's Spectrum of Opportunities visiting//www.doc.org/doctors/but/strate/self-and-ex-description/fides/charm/Opportunities review.

What Have States and Communities Done?

The Nevada legislature passed a bill (A.B. 152) (2015) that directs the State Board of Health to adopt regulations for licensed child care facilities that, among other things, requires the provision of an appropriate, private space where mothers may beastfeed. http://www.legisten.oru/scieno/715/b009/8iii.da/AB/315_ENpdf

The day of Boise (Idaho) adopted an ordinance (2014 by which the city will monitor and disclore to the public each child care facility compliance with a set of standards, two of which are edited to breastfeeding. I) whether the facility has private, facility and the control of the control o

*QRIS is one opportunity in the Spectrum of Opportunities and is a systematic approach to assess, communicate, and improve the level of quality in CE programs. Through CRIS, states define what constitutes a higher quality of care based on designated criteria and use a rating system with an reconstraints and understandable smooth to communicate to the public how well participately CEI facilities meet these criteria.

National Center for Chronic Disease Prevention and Health Promoti Division of Nutrition, Physical Activity and Obesity



The Surgeon General's Call to Action to Support Breastfeeding

2011



U.S. Department of Health and Human Services

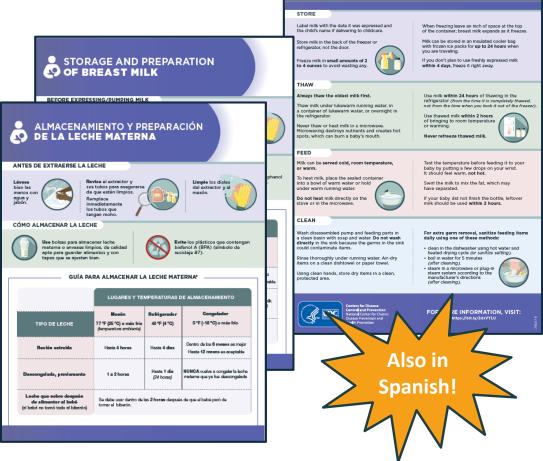


Storage and Preparation of Breast Milk handout

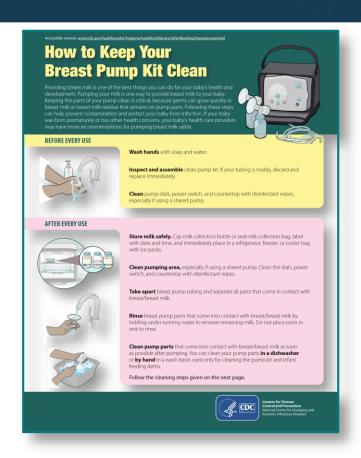
Human Milk Storage Guidelines Magnet







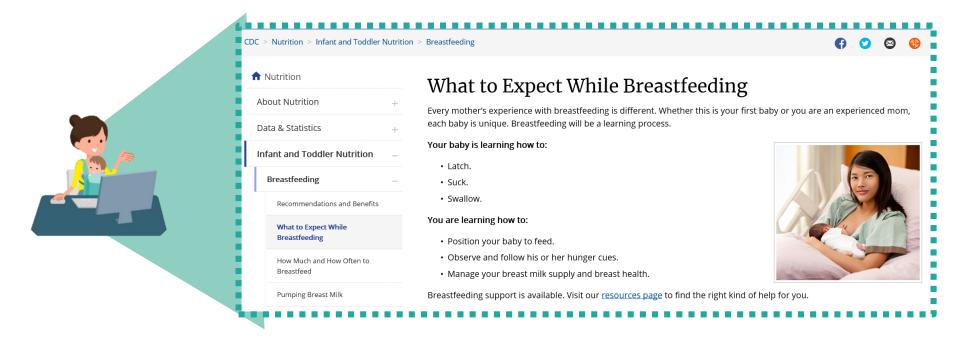
HOW TO CLEAN, SANITIZE, AND STORE INFANT FEEDING ITEMS





https://www.cdc.gov/healthywater/hygiene/healthychildcare/infantfeeding/cleansanitize.html

RESOURCES TO SHARE WITH MOTHERS



https://www.cdc.gov/nutrition/infantandtoddlernutrition/breastfeeding/index.html

SYNDICATION

- CDC offers a free Web Content Syndication service that gives public health partners
 the opportunity to syndicate CDC content directly to their sites without having to
 monitor or copy updates. Below is a list of breastfeeding content available for
 syndication.
 - Is It Safe for Mothers Who Use Marijuana to Breastfeed?
 - Breastfeeding Report Card
 - Maternity Practices in Infant Nutrition and Care (mPINC) Survey
 - How to Keep Your Breast Pump Kit Clean
 - How to Clean, Sanitize, and Store Infant Feeding Items
 - Proper Storage and Preparation of Breast Milk
 - Infant and Toddler Nutrition Microsite

https://www.cdc.gov/breastfeeding/resources/syndicated-content.html

DNPAO ONLINE RESOURCES



Data Trends and Maps

https://www.cdc.gov/nccdphp/dnpao/data-trends-maps/index.html



State Community Health Media Center

Collection of free and low-cost, audience-tested advertising and support materials https://nccd.cdc.gov/schmc/apps/overview.aspx



DNPAO Facebook Page

Facebook.com/CDCEatWellBeActive



DNPAO Twitter

@CDCObesity

@CDCMakeHealthEZ

QUESTIONS? THANK YOU!

EANSTEY@CDC.GOV



Centers for Disease Control and Prevention

National Center for Chronic Disease Prevention and Health Promotion



Division of Nutrition, Physical Activity, and Obesity (DNPAO)

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.