

# State of the ImmUnion: A Report on Vaccine-Preventable Diseases in the U.S.

Wednesday, April 25  
12:00 – 1:00 pm ET



# Strengthening the State of Our ImmUnion

**Erica DeWald**

*Director of Advocacy*

Every Child By Two/Vaccinate Your Family

# Today's Agenda



- **Overview of Federal Situation**



- **Educating Policymakers on the State of our ImmUnion**



- **Follow Us!**

# Why ECBT?



- ECBT founders helped pass laws in each state mandating proof of vaccination for school entry
- Traveled the nation building coalitions in every state to support immunization efforts
- Instrumental in attaining federal and support for vaccines



# ECBT Staff and Board Continue to Advocate





# Overview of Federal Situation

# Vaccines Save Lives & Money

## Childhood Immunization Provides Big Savings

Vaccines for Children: 23 years of protecting America's children



CDC estimates that vaccination of children born between 1994 and 2016 will:

- Prevent 381 million illnesses
- Prevent 24.5 million hospitalizations
- Help avoid 855,000 early deaths
- Save nearly \$360 billion in direct costs and \$1.65 trillion in total society costs
- Every dollar spent in childhood vaccination ultimately saves \$10.10.

# However, They are Often Caught in the Crossfire

## Every Child By Two News

Keeping you informed about vaccine-related news.

### Call To Action:



**Deadline 3 PM Today**  
We seek 520 more signatures to read

Every Child By Two asks you to join in urging Congress to protect immunization programs. Politics aside, it and when the Affordable Care Act was passed, Congress allocated **\$600 million in funds that currently support the Centers for Disease Control and Prevention (CDC) and subsequently state immunization programs.**

To ensure that legislators reallocate these funds, we ask you to sign our **Vaccine Funding Support Statement**.

In essence, Congressional funding for immunizations supports technology and personnel to keep vaccine preventable diseases at bay.

It supports essential activities such as:

- community outreach,
- disease surveillance,
- outbreak control,
- provider and public education,
- immunization registries,
- immunization service delivery,
- staffing and implementation of the Vaccines For Children program,
- and free vaccines to those who qualify under a separate funding stream.

### Background:

Historically, federal vaccine funding was allocated by Congress through the "Immunization" line item, which is now being referred to as the "Immunization" line item. Funds are appropriated to the CDC and used to support CDC immunization programs in all 50 states, the District of Columbia, five major territories, and the U.S. Virgin Islands.



January 17, 2017

The Honorable Lamar Alexander  
Chair  
Senate Health, Education, Labor, and Pensions Committee  
United States Senate  
Washington, DC 20510

The Honorable Orrin Hatch  
Chair  
Senate Finance Committee  
United States Senate  
Washington, DC 20510

Dear Chairman Alexander, Chairman Hatch, Ranking Member Murray, and Ranking Member Wyden:

Vaccines are one of the greatest success stories in public health and the most cost-effective way of preventing disease, disability and death. Indeed, we know that for each dollar spent on childhood immunization programs, there are over ten dollars of societal savings in direct medical savings. Moreover, it is estimated that the benefits of the Vaccines For Children Program for children born over the first year will prevent 322 million illnesses, 21 million hospitalizations, 732 million in societal costs.

While immunization rates remain high for children, pockets of low immunization rates remain a risk of deadly vaccine-preventable diseases. Immunization rates remain woefully low, leaving them vulnerable to diseases such as measles, mumps, and rubella, and serving as vectors for the transmission of deadly diseases to young children. It has been reported that the U.S. spends nearly \$1 billion annually on four vaccine-preventable diseases that afflict adults over 50 years of age: pneumococcal disease and shingles.

February 7, 2017

President Donald J. Trump  
The White House  
1600 Pennsylvania Avenue, NW  
Washington, DC 20500

Dear Mr. President:

On behalf of organizations representing families, providers, researchers, patients, and consumers, we write to express our unequivocal support for the safety of vaccines. Vaccines protect the health of children and adults and save lives. They prevent life-threatening diseases, including forms of cancer. Vaccines have been part of the fabric of our society for decades and are one of the most significant medical innovations of our time.

Because of the introduction of mass vaccinations, smallpox was declared eradicated from the world in 1977. Polio, a disease that routinely afflicted 13,000 to 20,000 Americans every year in the United States before the availability of the vaccine, was officially eliminated from the Western Hemisphere in 1991. Globally, vaccines prevent the deaths of roughly 2.5 million children per year.<sup>1</sup> And, data shows that just for children born in the United States in 2009, routine childhood immunizations will prevent approximately 42,000 early deaths and 20 million cases of disease with savings of more than \$82 billion in societal costs.<sup>2</sup>

Although vaccines are the safest and most cost-effective way of preventing disease, disability and death, this country still witnesses outbreaks of vaccine-preventable diseases, as highlighted by the measles outbreak at Disneyland in 2014. In 2012, 48,277 cases of pertussis (whooping cough) were reported to the Centers for Disease Control and Prevention (CDC), including 20 per cent of whom have only read about such illnesses in textbooks—as well as to those who seek to control outbreaks in each of our states.

Claims that vaccines are unsafe when administered according to expert recommendations have been disproven by a robust body of medical literature, including a thorough review by the National Academy of Medicine (formerly known as the Institute of Medicine). Attached to this letter is a non-exhaustive list of studies demonstrating the safety of vaccines. Delaying vaccines only leaves our nation's citizens at risk of disease, particularly children. As a nation we should

<sup>1</sup> UNICEF. Immunization: Keeping Children Alive and Healthy. [https://www.unicef.org/immunization/files/immunization\\_brochure.pdf](https://www.unicef.org/immunization/files/immunization_brochure.pdf)

Congress of the United States  
Washington, DC 20510

February 21, 2017

Dear Colleagues,

I am writing today to highlight the importance of immunizations, which protect Americans, children and children, against outbreaks of serious and deadly infectious diseases.

The introduction of vaccines was a turning point in our country's public health history. Vaccines have protected us from certain diseases, including polio and measles, from the United States. The Centers for Disease Control and Prevention (CDC), before introduction of the measles vaccine in the United States, polio caused more than 16,000 cases of paralysis and nearly 100,000 deaths annually. Similarly, before the introduction of the measles vaccine in 1968, measles got measles by the age of 15, with up to 4 million Americans infected each year, on average.<sup>1</sup> Measles is a highly contagious, airborne virus that can cause illness and life-threatening complications in children, such as pneumonia, ear infections, and encephalitis. In 2000, as a result of a vaccine, the measles virus was eliminated in the United States.<sup>2</sup> The pertussis vaccine is yet another example of a vaccine that can be eliminated in the United States. The pertussis vaccine provides protection against the illness even before a child receives protective antibodies when their mother is vaccinated.<sup>3</sup>

Measles outbreaks around the country have reported outbreaks of measles, mumps, and rubella (MMR). The reasons for each outbreak vary, but we know that outbreaks of infectious diseases that have led to lower vaccination rates in some states. In the United States, we had 667 measles cases in 27 states—a record high since 1947. In 2014, 151 measles cases were reported in 12 states, a record high since 1947. In 2015, 124 measles cases were reported in 12 states. These outbreaks have affected families, and they have presented unique challenges to doctors and health officials who seek to control outbreaks in each of our states.

Vaccine-preventable diseases in the United States presents a public health challenge to those who rely on "herd immunity," which means protection from disease

[everychildbytvo@cdc.gov](mailto:everychildbytvo@cdc.gov)  
[www.everychildbytvo.org](http://www.everychildbytvo.org)  
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# Funding is (Currently) Our Biggest Challenge

	FY 2016 Appropriation	FY 2017 Appropriation	FY18 Appropriation	FY19 President's Proposal	FY18 CDC Professional Judgment Level
Section 317/ Immunization Program Funding (in millions)	\$610.847	\$606.792	\$610.847	\$520.828	\$829.100

Nearly **53% of the funding** reflected above is allocated via the Prevention and Public Health Fund (PPHF)

Many states have **no disease outbreak funds**

# Health Reform will Continue to have an Impact

## First Dollar Coverage

- May discourage individuals from seeking out preventive care

## Essential Health Benefits

- Also has the potential to discourage individuals from accessing preventive care for themselves and their families

## Medicaid Expansion

- Will affect and adults as well as children whose parents are unable to navigate the system

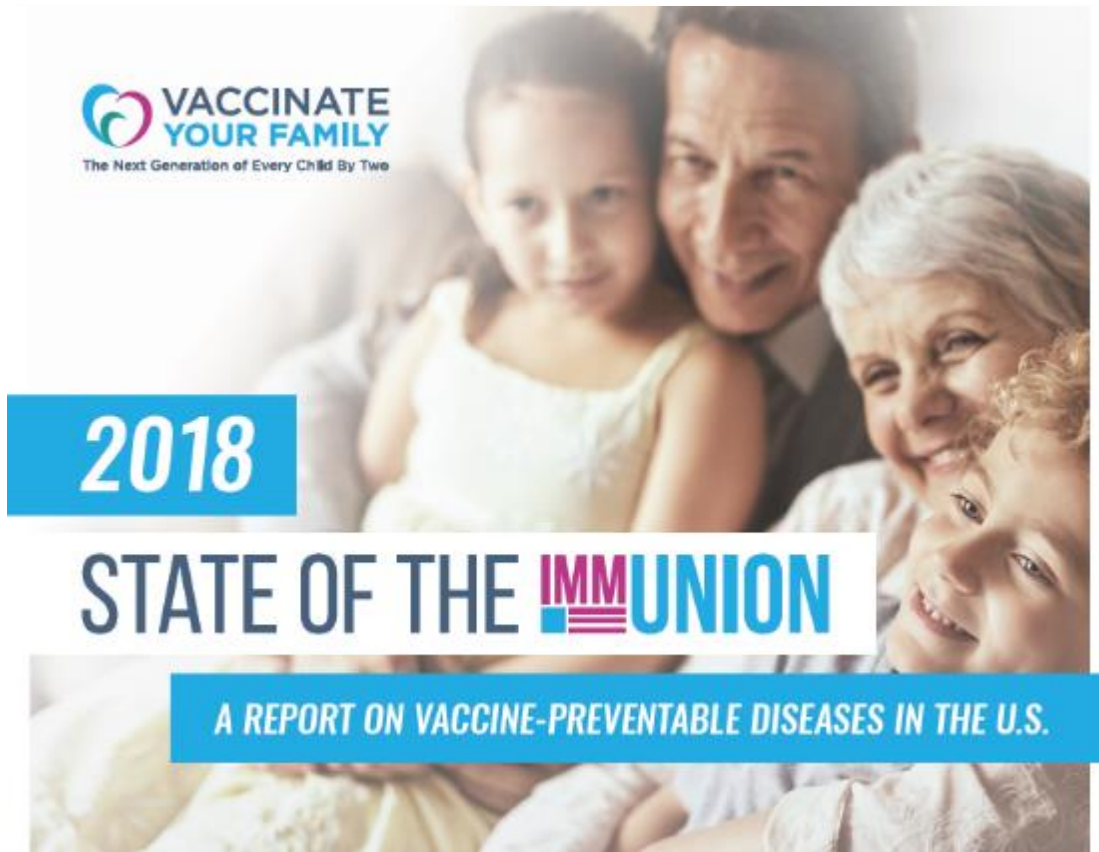
## Reproductive Health

- Measures meant to target reproductive health issues may have unintended consequences for vaccines



# ECBT's Efforts to Educate Policymakers on the "State of Our ImmUnion"

# ECBT's 2018 *State of the ImmUnion* Report



## We All Bear the Economic Burden of Preventable Diseases

### PERTUSSIS OUTBREAK IN NEBRASKA SCHOOL<sup>1</sup>

1,000  
STAFF HOURS

\$52,000  
COST

### MEASLES OUTBREAK IN MINNESOTA<sup>2</sup>

3 MONTHS  
TO CONTAIN

\$1.3 Million COST TO  
STATE & LOCAL HEALTH DEPARTMENTS

### 2015-2016 INFLUENZA SEASON<sup>3</sup>

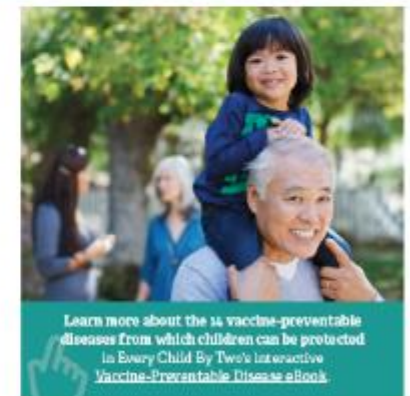
\$10.4 Billion  
ESTIMATED DIRECT COSTS

\$87 Billion  
TOTAL ECONOMIC BURDEN

As a result, when someone infected with measles arrived in the community, the disease quickly spread. During the outbreak, which lasted several months, more than 8,000 people were exposed.<sup>2</sup> Seventy-three of the 79 people who contracted the disease were children under 10, and 22 were hospitalized.<sup>4</sup> A massive public health response was implemented to contain the disease and treat those infected. Luckily, no one died as a result of this outbreak, but there can be long-term consequences to contracting measles. Subacute sclerosing panencephalitis (SSPE) is a fatal complication of measles that can develop seven to

10 years after a person has measles.<sup>5</sup> While the condition is rare, it is more likely to occur in children who contract measles before two years of age.<sup>6</sup>

The U.S. is experiencing other disease outbreaks as well. Whooping cough continues to threaten the health of babies and in the 2016-17 flu season we lost another 110 children to influenza,<sup>7</sup> while some parents are choosing not to vaccinate their children, due to disinformation about the safety and efficacy of vaccines, others are simply not able to access the care their children need.



SOURCE: STATE OF THE IMMUNION | VACCINATE YOUR FAMILY | 5

The 2018 report was released around this year's State of the Union Address to Congress on January 30.

# We Highlight Key Information & Statistics

## THE COSTS OF VACCINE-PREVENTABLE DISEASE

Even if work days are not missed, productivity still suffers and costs the U.S. economy billions of dollars:<sup>1,2</sup>



Each year, poor health costs the U.S. economy an estimated

• **\$576 billion**

• **\$227 billion** of this amount is in productivity losses from employees who are absent due to illness, and from employees who are present, but too ill to perform at their best.



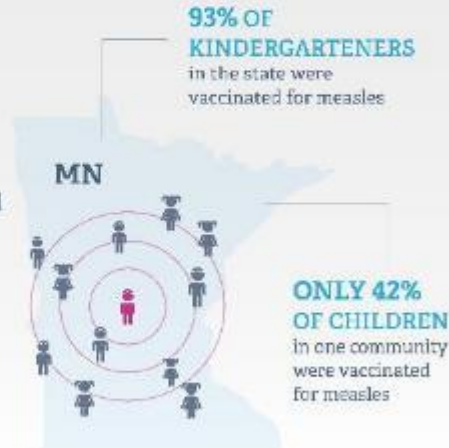
1. CDC, "The Economic Burden of Vaccine-Preventable Diseases in the United States," <https://www.cdc.gov/mmwr/preview/mmwrhtml/mm5909a.htm>, 2010. 2. CDC, "The Economic Burden of Vaccine-Preventable Diseases in the United States," <https://www.cdc.gov/mmwr/preview/mmwrhtml/mm5909a.htm>, 2010.

STATE OF THE IMMUNIZATION

## LARGE OUTBREAKS CAN BEGIN IN UNPROTECTED COMMUNITIES

### 2017 MEASLES OUTBREAK IN MINNESOTA

**8,000** people were exposed and many children contracted measles



STATE OF THE IMMUNIZATION

## VACCINES GIVEN IN PREGNANCY PROTECT BABIES

### Pertussis

When mothers get Tdap vaccine in pregnancy, they **reduce infants risk of pertussis by:**



### Flu

When mothers get flu vaccine in pregnancy, they **reduce infant risk of flu by:**



1. CDC, "Pertussis Vaccination in Pregnancy," <https://www.cdc.gov/vaccines/imz/downloads/p/13-0017a.pdf>, 2013. 2. CDC, "Flu Vaccination in Pregnancy," <https://www.cdc.gov/vaccines/imz/downloads/p/13-0017a.pdf>, 2013.

STATE OF THE IMMUNIZATION



**THE STATE**

**OF OUR IMMUNION IS PRECARIOUS**

# The Report Includes Specific Asks

Appropriate sufficient annual funding to the CDC, states and territories

Support health care reform measures that expand access and protect first dollar coverage and essential health benefits

Learn more about the science behind vaccines and support the CDC-recommended immunization schedule

Reach out to your local immunization advocates

Connect with your fellow legislators to sponsor legislation in support of federal, state and local efforts

# Customize the Report to Your State

2018 STATE OF THE IMMUNION

NAME OF STATE

**Kindergarten Vaccination & Exemption Rates**  
Select Vaccination Rates for Kindergartners (use and delete [this link](#))

- MMR:
- DTaP:
- **XX%**

XX% of kindergartners have non-medical exemptions from vaccines (use and delete [this link](#))

**Adolescent Vaccination Rates**  
Vaccination Rates for Adolescents (use and delete [this link](#))

- HPV (2-doses, males and females):
- Tdap:
- **XX%**

**Adult Vaccination Rates**  
Vaccination Rates for Adults (use and delete [this link](#))

- Pneumococcal (13-64):
- Pneumococcal (65+):
- Tdap (15-64):
- Shingles (60+):

**Eliminating the Prevention & Public Health Fund (PPHF) Would Have a Devastating Impact on Our State**  
(use and delete [this link](#))

PPHF provides \$X,XXX,XXX in funding to our state, including \$X,XXX,XXX to support vaccinations for children and adults in need.

PPHF also supports XXX jobs in our state.

**Final Title**

Use this space to add additional information that federal legislators may need to know. Some examples include: Recent disease outbreaks, additional funding challenges, or something a Member of Congress can brag about (highest vaccination rates/lowest exemption rates, special programs, strong IIS enrollment, etc.)

VACCINATE YOUR FAMILY

Insert your logo here

## Kindergarten Vaccination & Exemption Rates

Select Vaccination Rates for Kindergartners (use and delete [this link](#))

- MMR:
- DTaP:
- **HepB:**

XX% of kindergartners have non-medical exemptions from vaccines (use and delete [this link](#))

## Eliminating the Prevention & Public Health Fund (PPHF) Would Have a Devastating Impact on Our State

(use and delete [this link](#))

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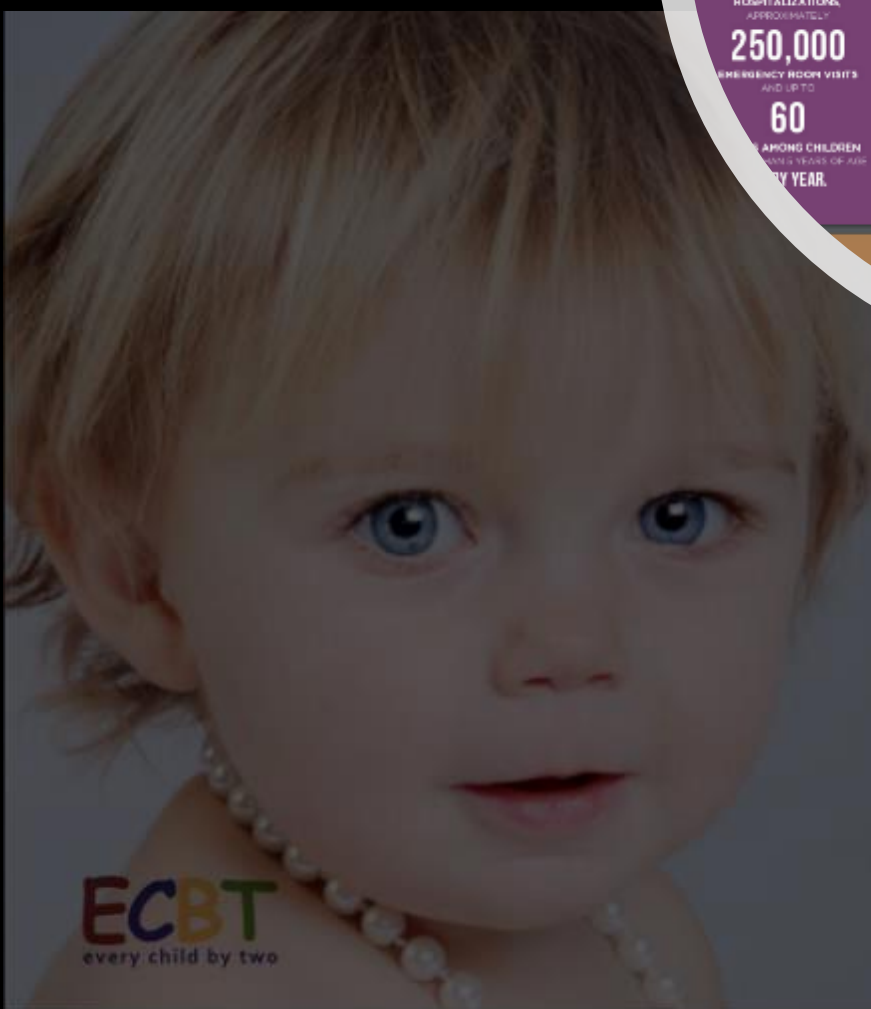
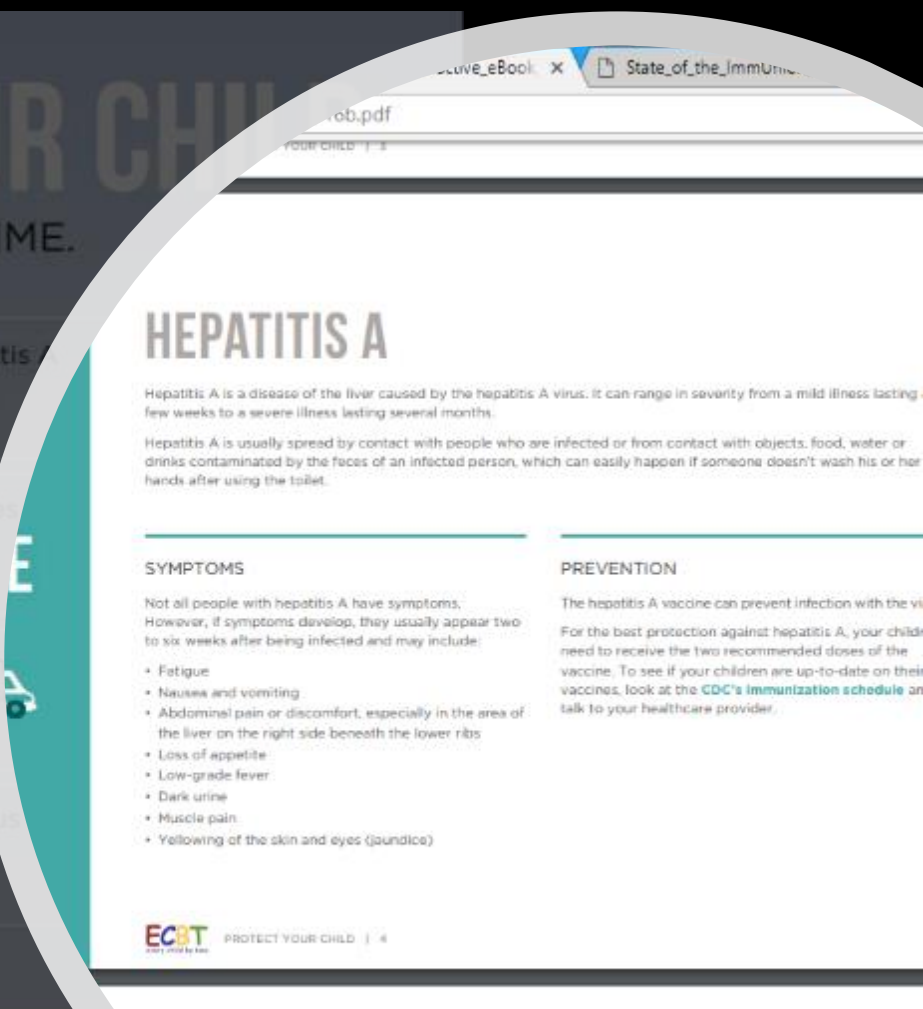
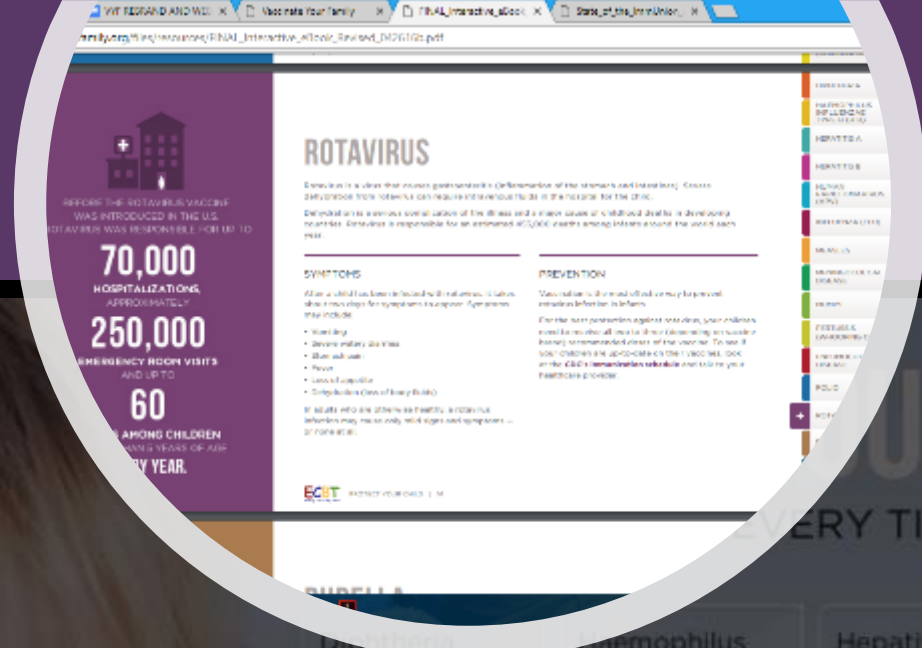
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Follow Us!

# eBook



# Educating WIC Providers and Patients

**Vaccines and Pregnancy**  
Getting Vaccinated While Pregnant Protects Both Mom and Baby

**Pertussis (Whooping Cough)**  
Pertussis, also known as whooping cough, is a serious disease, especially in infants. Some babies with whooping cough have coughing fits and gasp for air, while others may stop breathing. About half of babies younger than 12 months who get whooping cough are hospitalized. The good news is that you can help protect your baby. By getting the whooping cough vaccine (also called Tdap) during pregnancy, you'll pass antibodies to your baby that will help protect your newborn from this disease from the time he is born until your baby gets his own whooping cough vaccine at 2 months of age. Doctors and midwives who specialize in treating pregnant women agree that the whooping cough vaccine is safe and important to get during the 3rd trimester of every pregnancy.

**Influenza (Flu)**  
The flu can be a dangerous illness, especially for pregnant women and young children. Changes in a woman's immune, heart, and lung functions during pregnancy make her more likely to get severely ill and suffer severe complications from the flu than non-pregnant women. Pregnant women with the flu also have a greater chance for serious problems for their unborn baby, including premature labor and delivery. Fortunately, getting a flu shot is a simple thing a pregnant woman can do to help protect herself and her baby. When you get a flu shot, your body makes antibodies that can be passed on to your unborn baby to help protect the baby from flu for up to 6 months after he or she is born. This is important because babies do not begin severe complications from the flu. Sadly, every year, about 20,000 children under five are hospitalized and approximately 100 die due to complications from the flu. The flu vaccine is safe for pregnant women and their babies, and can be received during any trimester. The CDC recommends getting the vaccine as soon as it becomes available.

**Surround Your Baby with Protection**  
For additional protection, make sure friends, family and caregivers who will be in contact with your baby are up-to-date on their vaccinations at least two weeks before meeting your newborn.

For more information about vaccines during pregnancy and the importance of timely immunizations for people of all ages, visit [VaccinateYourFamily.org](http://VaccinateYourFamily.org)

**VACCINATE YOUR FAMILY**  
A PROGRAM OF EVERY CHILD BY TWO

**Meet the Experts**



**Paul A. Offit, MD** Bio Chief, Division of Infectious Diseases & Director, Vaccine Education Center Children's Hospital of Philadelphia



**Mark Sawyer, MD** Bio Professor, Clinical Pediatrics & Pediatric Infectious Disease Specialist UCSD School of Medicine & Rady Children's Hospital San Diego



**Alison Singer** Bio Co-Founder & President Autism Science Foundation



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**Why Vaccinate**

- Why do children need so many vaccines?
- Are my children really in danger if I don't have them vaccinated?
- How do you feel about childhood vaccines?
- Many vaccines are for diseases that are no longer common anymore. Why is it important to get them?

**Why Follow the Recommendations?**

- Why is it necessary to get so many vaccines?
- Is it safe for a child to get so many vaccines in a single office visit?
- Are we overwhelming children with too many vaccines? [1:05]
- How do they determine the ages when children should get each vaccine? Is it okay to delay vaccines? [1:05]

**Vaccines 101: Information for WIC Staff (2016 Edition)**

**ECBT** Every Child By Two

The Guide is supported through funding provided by the Centers for Disease Control and Prevention through grant number 5U49CE00042-01.

# Reaching Daycares

**Vaccines are one of the best ways to help keep infants and young children protected against serious vaccine-preventable diseases.**

**To help us keep your family healthy and strong...**

**Keep your own vaccinations up-to-date.**  
Adults need vaccines too. Visit [VaccinateYourFamily.org](http://VaccinateYourFamily.org) to learn about the importance of vaccines at every age, and to find out which vaccines you may need.

**Make sure everyone in your family is up-to-date with their vaccinations.**  
When all members of the family are vaccinated, including older children, grandparents, and other caregivers, you help reduce the risk of serious and potentially life-threatening diseases like whooping cough and flu.

**Follow these additional steps to help stop the spread of germs:**

- Avoid close contact with people who are sick.
- Stay home when you are sick, and keep sick children at home.
- Cover your nose and mouth with a tissue or sleeve when you sneeze or cough.
- Avoid touching your eyes, nose, and mouth.
- Clean and disinfect surfaces and objects regularly.
- Wash your hands often with soap and water, and especially before you interact with children.

Visit **VaccinateYourFamily.org** for more information.  
This resource is part of a public health initiative funded by GSK.

**VACCINATE YOUR FAMILY** Child By Two - Immunization  
A Program of Every Child By Two - Carter/Bumpers Champions for Immunization

**Dear Parent,**  
We have been teaching the children about the importance of proper hand washing to help keep germs from making them sick. The child learned that washing with soap and water is the best way to wash off the "glitter germs" teachers sprinkled onto their hands. As a parent, you know that although it helps to stop the spread of germs, one of the best ways to help protect from serious diseases such as pertussis (whooping cough), and others is to make sure you and every member of your family, including your grandparents, to keep your own up-to-date!

Two vaccines that are particularly important to discuss with your healthcare provider are the pertussis and flu vaccines.

**Pertussis (Whooping Cough)**  
In recent years, there have been outbreaks of whooping cough in the United States. In 2015, nearly 35,000 cases were reported. Pertussis is a highly contagious disease, and it can be especially dangerous for young children. And unfortunately, many children get whooping cough without even knowing it. In fact, when researchers looked at whooping cough cases in 2015, they found that 85% of the cases were in children under one year of age.

**Tdap Vaccine**  
The Tdap vaccine protects against tetanus, diphtheria, and pertussis. It is recommended for all adolescents 12 years old and older.

**Dear Grandparent,**  
Staying healthy and active is essential so that you can spend quality time with your grandchildren. This is especially important with a new grandchild or with one on the way. Vaccinations aren't just for children. Keeping everyone's vaccinations up-to-date is an important way to help keep you and your family healthy.

Here in the United States, vaccination has been an important part of helping to reduce the incidence of a number of diseases. While many of these diseases are no longer as common as when you were growing up, they still exist in the U.S. and around the world and can be brought into the U.S. by travelers. That is why it is important that all family members receive all of the recommended vaccines on time.

**Talk to your healthcare provider or pharmacist about which vaccines are right for you, and encourage everyone in your family to do the same.**

**Did You Know?**

- Diseases such as pertussis (also known as whooping cough) and flu can be dangerous for young children.
- Whooping cough is a highly contagious disease that can be particularly severe in infants and fatal in a small number of cases. Over the last few years, there have been large outbreaks of whooping cough in the United States, including approximately 33,000 cases in 2014 and more than 18,000 cases in 2015.
- Whooping cough may appear as a common cold in many teens and adults, and many people who are contagious with the illness may not even know they have it. In fact, when researchers were able to identify how a baby caught whooping cough, they determined that it is approximately 85% of the cases someone in the family is the source.
- One dose of Tdap, the vaccine against tetanus, diphtheria, and pertussis, is recommended for all adults age 19 and older who did not receive the vaccine as adolescents.
- Pregnant women should talk to their healthcare provider about whooping cough vaccinations.
- During the 2014-2015 season, the pertussis virus caused complications that killed 147 children, a loss of thousands of people here in the United States. Healthy people can get the flu and other respiratory viruses every year.
- Everyone 6 months of age and older should get the flu vaccine every year.

We understand that you might have questions about whooping cough, and we encourage you to find the answers, and to talk to your healthcare provider about the importance of vaccinations for your family, by visiting [VaccinateYourFamily.org](http://VaccinateYourFamily.org).



**Happy and Healthy Hands**  
Trace your hands and color them.

Help me wash my hands each day so we can keep the germs away!..

Learn more about how you can help your family stay healthy at [VaccinateYourFamily.org](http://VaccinateYourFamily.org).

THIS RESOURCE IS PART OF A PUBLIC HEALTH INITIATIVE FUNDED BY GSK.

**VACCINATE YOUR FAMILY**  
A PROGRAM OF EVERY CHILD BY TWO

# Stay in the Know!

Alerts & Updates: [info@ecbt.org](mailto:info@ecbt.org)

Website: [www.vaccinateyourfamily.org](http://www.vaccinateyourfamily.org)

Blog: [www.shotofprevention.com](http://www.shotofprevention.com)



Vaccinate Your Family



Vaccinate Your Family



VaxYourFamily



Thank You!

Erica DeWald  
[erica@ecbt.org](mailto:erica@ecbt.org)

# Resource Announcements

- **Every Child By Two 2018 State of the ImmUnion Report -**  
[http://vaccinateyourfamily.org/files/resources/SOTIReport\\_2018.pdf](http://vaccinateyourfamily.org/files/resources/SOTIReport_2018.pdf)
- **National Infant Immunization Week resources -**  
<https://www.cdc.gov/vaccines/events/niiw/index.html>
- **NACCHO Congressional Action Network -**  
<https://www.naccho.org/advocacy/take-action>
- **News from Washington -** <https://www.naccho.org/advocacy/news>
- **NACCHO Advocacy Toolkit -**  
<https://www.naccho.org/uploads/downloadable-resources/Government-Advocacy-Toolkit-April-20181.pdf>