



JOHNS HOPKINS
BLOOMBERG SCHOOL
of PUBLIC HEALTH

IVAC

International Vaccine
Access Center

TOOLKIT

EPI AT 50

**CELEBRATING
VACCINE
VICTORIES**

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International Vaccine Access
Center at Johns Hopkins BSPH



OVERVIEW

This **World Immunization Week**, IVAC is celebrating all that vaccines have accomplished in the last 50 years. Since the launch of the **Expanded Programme on Immunization (EPI)** in 1974 (now known as the Essential Programme on Immunization), **vaccines have saved nearly 154 million lives and reduced infant deaths by 40%**. Continued efforts are needed to build on these successes over the next 50 years and beyond, with a focus on building back immunization coverage that was lost during the COVID-19 pandemic and ensuring that all children everywhere have access to life-saving vaccines.

The resources compiled in this toolkit can be referenced and shared by advocates, researchers, and decision-makers to demonstrate the value of vaccines and make the case for ongoing investment in these life-saving tools. The toolkit also includes graphics celebrating Vaccine Victories for the immunizations currently included in the EPI to protect infants, children, and adults from deadly illnesses and can be shared on social media to **promote immunization for all**.

RESOURCES FROM IVAC

VIEW-hub

VIEW-hub tracks introduction, access, and coverage data for nine vaccines in 194 countries. Users can download customized visualizations of year-over-year data to visualize progress and areas that need continued attention.

Pneumonia and Diarrhea Progress Report

IVAC's annual report tracks progress on 10 indicators related to pneumonia and diarrhea in the 15 countries with the highest burden of under-five pneumonia and diarrhea deaths. Although great progress continues to be made, the burden of pneumonia and diarrhea continues to be deeply inequitable, with over 70% of under-five mortality concentrated in just 15 countries.

VoICE

The Value of Immunization Compendium of Evidence (VoICE) is a searchable database of evidence demonstrating the broad benefits of immunization and the far-reaching impact of vaccine-preventable diseases. This research can be used to demonstrate the importance of continued investment in routine immunization programs across the globe.

VaccineROI.org

The Decade of Vaccine Economics (DoVE) project calculated the Return on Investment (ROI) of vaccine programs in 73 low- and middle-income countries. These results demonstrate the wide-reaching benefits of immunization.

ImmunizationEconomics.org

The Immunization Economics Community of Practice brings together a wide-ranging set of stakeholders with an interest in the generation and use of economic evidence to help improve immunization programs in low- and middle-income countries. The community is comprised of over 3,000 members worldwide, including researchers, government policymakers, public health practitioners, technical experts from organizations implementing immunization-related projects, private sector representatives, academics, and others.

IA2030 Scorecard

The Immunization Agenda 2030 (IA2030) Scorecard is a publicly available interactive tool displaying data that enables stakeholders at all levels to monitor and track the status of each indicator in the IA2030 Framework for Action. The scorecard supports coordinated operational planning, ownership and accountability, and communication and advocacy.

Estimating the Impact of New Vaccine Introduction

This brief estimates the impact of introducing pneumococcal conjugate vaccine and rotavirus vaccine in Chad, Guinea, Somalia, and South Sudan, illustrating the importance of ensuring that children in all countries have access to these life-saving tools.

Rotavirus Disease and Immunization: Series of Briefs

This series of briefs examines the introduction, safety, impact, and value of rotavirus vaccines to support immunization efforts.

Global Misinformation Training | Latinx Misinformation Training

Healthcare workers play a critical role in combating rumors and misinformation about vaccines in their communities. This training provides essential knowledge and skills for healthcare professionals to navigate the challenges posed by vaccine misinformation.

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HPV HUMAN
PAPILLOMA-
VIRUS

Introduced nationally in **137** countries

All currently licensed HPV vaccines prevent infection with HPV serotypes that are known to cause **70%** of cervical cancers globally

HPV vaccination is a key pillar of the global strategy to eliminate cervical cancer

In addition to cervical cancer, HPV vaccines can also prevent oropharyngeal cancer and anal cancer

VACCINE VICTORIES

[DOWNLOAD THE GRAPHIC HERE](#)

SHARE ON SOCIAL MEDIA

✔ HPV vaccines target cancer-causing serotypes that are known to cause 70% of cervical cancers globally. Thanks to HPV vaccines, a world without cervical cancer is **#HumanlyPossible**

✔ As a key pillar of the global strategy to eliminate cervical cancer, HPV vaccination can protect girls and women everywhere from this devastating disease. **#VaccinesWork**

HPV RESOURCES

- HPV Vaccine Introduction & Use Data [VIEW-hub]
- HPV Vaccines: New Momentum in Eliminating Cervical Cancer [VoICE]
- The Power of a Single Dose: Evidence for a Single-Dose HPV Vaccine Schedule [VoICE]
- HPV Vaccine Cost Calculator [PATH]
- A Look at Each Vaccine: HPV [Vaccine Education Center, Children's Hospital of Philadelphia]

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**VACCINE
VICTORIES**

IPV & OPV POLIO

-  Inactivated polio vaccine (IPV) has been introduced nationally in **194** countries
-  IPV protects against severe disease caused by poliovirus in **99 out of 100** people who have received all the recommended doses
-  Polio vaccines have helped to interrupt transmission around the world; wild-type polioviruses now remain endemic in only **2** countries
-  There is no cure for polio and thus vaccination is crucial in the fight against this devastating disease

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POLIO RESOURCES

- Resources for Polio Eradicators [Global Polio Eradication Initiative]
- Communication Strategies for Polio Eradication [Global Polio Eradication Initiative]
- Inactivated Polio Vaccine Access & Coverage Data [VIEW-hub]
- WHO Polio Eradication Initiative

- ✔ Polio vaccines have helped to interrupt transmission around the world. Thanks to vaccines, wild-type polioviruses now remain endemic in only 2 countries. [#VaccinesWork](#)
- ✔ Inactivated polio vaccine protects against severe disease caused by poliovirus in 99 out of 100 people who receive all recommended doses. [#VaccinesWork](#)

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**VACCINE
VICTORIES**

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Hib

**HAEMOPHILUS
INFLUENZAE
TYPE b**



Introduced nationally in **193** countries



Global coverage with 3 doses of Hib vaccine is estimated at **76%**



More than **95%** of infants develop protective antibody levels following primary vaccination series



Before the vaccine, Hib disease was the leading cause of bacterial meningitis among children under 5 years in the US; today, less than **50** cases of Hib disease occur each year in young children in the US

SHARE ON SOCIAL MEDIA

✔ In the US, Hib used to be the leading cause of bacterial meningitis in children under 5 years. Now, the country sees less than 50 Hib cases among young children each year, proving that [#VaccinesWork](#)

✔ More than 95% of infants who are vaccinated against Hib develop protective antibodies [#VaccinesWork](#)

HIB RESOURCES

- [Hib Vaccine Coverage Data \[VIEW-hub\]](#)
- [CDC Hib Vaccine Resources](#)
- [A Look at Each Vaccine: Haemophilus Influenzae Type b \(Hib\) Vaccine \[Vaccine Education Center, Children's Hospital of Philadelphia\]](#)
- [Haemophilus influenzae type b \(Hib\): Questions and Answers \[Immunization Action Coalition\]](#)

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**VACCINE
VICTORIES**

HBV

HEPATITIS B

-  Infants who are fully vaccinated against hepatitis B will gain protection against the disease for at least **30 years**
-  The vaccine provides nearly **100%** protection against the virus
-  More than **1 billion** doses of the hepatitis B vaccine have been administered worldwide
-  Hepatitis B-related primary liver cancers have decreased globally due to vaccination efforts

[DOWNLOAD THE GRAPHIC HERE](#)

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HBV RESOURCES

- 2024 WHO Guidelines for the Prevention, Diagnosis, Care and Treatment for People with Chronic Hepatitis B Infection
- A Look at Each Vaccine: Hepatitis B Vaccine [Vaccine Education Center, Children's Hospital of Philadelphia]
- Hepatitis B Vaccine: What You Need to Know [American Academy of Pediatrics]

- So far, more than 1 billion doses of the hepatitis B vaccine have been administered worldwide **#VaccinesWork**
- Infants who are fully vaccinated against hepatitis B will gain protection against the disease for at least 30 years **#VaccinesWork**

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VACCINE VICTORIES

MCV

MEASLES-
CONTAINING
VACCINE



Measles vaccine was **1 of 6** vaccines included in the EPI at its inception



Introduced nationally in **188** countries



Globally, vaccination prevented **>57 million** measles-related deaths from 2000–2022



An estimated **136,000** people died from measles in 2022, mostly children under the age of 5 years, despite the availability of a safe and cost-effective vaccine; these outbreaks emphasize the need for continued efforts to ensure immunization for all

[DOWNLOAD THE GRAPHIC HERE](#)

SHARE ON SOCIAL MEDIA

✔ Measles vaccination has prevented more than 57M deaths globally from 2000–2022

[#VaccinesWork](#)

✔ The best way to stop measles outbreaks is to ensure that children everywhere are vaccinated against this preventable disease

[#VaccinesWork](#)

MEASLES RESOURCES

- Measles-Containing Vaccine Coverage Data [VIEW-hub]
- How to Protect Your Children During a Measles Outbreak [American Academy of Pediatrics]
- A Look at Each Vaccine: Measles, Mumps and Rubella (MMR) Vaccine [Vaccine Education Center, Children's Hospital of Philadelphia]
- Measles, Mumps, and Rubella (MMR) Vaccination: What Everyone Should Know [CDC]
- Top 4 Things Parents Need to Know about Measles [CDC]
- Measles once devastated the world like COVID. It still threatens us today [The Hill]

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**VACCINE
VICTORIES**

RCV RUBELLA-CONTAINING VACCINE

As of 2022, introduced nationally in **175** countries

Introduction of the rubella vaccine has reduced infections globally by **78%**

Due to successful vaccination programs, rubella has been eliminated in the US since **2004**; globally, **51%** of countries have eliminated rubella

A single dose of the rubella vaccine provides **95%** long-lasting immunity

[DOWNLOAD THE GRAPHIC HERE](#)

SHARE ON SOCIAL MEDIA

✔ Since its introduction, the rubella vaccine has reduced infections by **78%**

[#VaccinesWork](#)

✔ A single dose of the rubella vaccine provides **95%** long-lasting immunity

[#VaccinesWork](#)

RUBELLA RESOURCES

- Measles-Rubella Vaccine Introduction Data [VIEW-hub]
- A Look at Each Vaccine: Measles, Mumps and Rubella (MMR) Vaccine [Vaccine Education Center, Children's Hospital of Philadelphia]
- Measles, Mumps, and Rubella (MMR) Vaccination: What Everyone Should Know [CDC]
- Pregnancy and Rubella [CDC]
- Rubella: Questions and Answers [Immunize.org]

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VACCINE VICTORIES

ROTAVIRUS



Introduced nationally in **120** countries



Vaccination protects **9 out of 10** children from severe rotavirus disease, which can lead to diarrhea, dehydration, hospitalization, and death



Global rotavirus vaccination was estimated to prevent **139,000** deaths in children under 5 years between 2006 and 2019



Vaccination has reduced rotavirus-related gastroenteritis by **40%** globally and has reduced rotavirus-related hospitalizations by **59%**

[DOWNLOAD THE GRAPHIC HERE](#)

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ROTAVIRUS RESOURCES

- Rotavirus Disease and Immunization: Series of Briefs [ROTA Council]
- A Look at Each Vaccine: Rotavirus Vaccine [Vaccine Education Center, Children's Hospital of Philadelphia]
- Rotavirus: Questions and Answers [Immunize.org]
- Rotavirus Vaccine: What You Need to Know [American Academy of Pediatrics]

- ✔ Vaccination protects 9 in 10 children from severe rotavirus disease, which can lead to diarrhea, dehydration, hospitalization, and death [#VaccinesWork](#)
- ✔ Between 2006–2019, rotavirus vaccination prevented an estimated 139,000 deaths in children under 5 [#VaccinesWork](#)

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**VACCINE
VICTORIES**

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PNEUMOCOCCAL DISEASE



Introduced nationally in **159** countries



Pneumococcal conjugate vaccines (PCVs) contributed to a **95%** reduction in invasive pneumococcal disease between 1998–2021 in the United States



In addition to protecting vaccinated individuals from vaccine-type pneumococcal disease, PCVs also provide indirect protection to unvaccinated individuals living in communities with vaccinated children

SHARE ON SOCIAL MEDIA

- Pneumococcal conjugate vaccines have helped to reduce invasive pneumococcal disease by 95% in the US [#VaccinesWork](#)
- Beyond just protecting vaccinated children from vaccine-type pneumococcal disease, PCVs also provide indirect protection to unvaccinated individuals [#VaccinesWork](#)

PNEUMOCOCCUS RESOURCES

- Pneumococcal Conjugate Vaccine (PCV) Coverage Data [VIEW-hub]
- A Look at Each Vaccine: Pneumococcal Vaccine [Vaccine Education Center, Children’s Hospital of Philadelphia]
- Pneumococcal Conjugate Vaccine: What You Need to Know [American Academy of Pediatrics]

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**VACCINE
VICTORIES**

TETANUS



Tetanus toxoid was **1 of 6** vaccines included in the EPI at its inception



Since 1988, vaccines have reduced neonatal tetanus deaths by **97%**, and maternal and neonatal tetanus has been eliminated in **all but 11** countries globally



Maternal tetanus vaccination protects women from infection during pregnancy and also transfers antibodies to prevent disease in newborns



In 2022, **84%** of infants received 3 doses of a vaccine protecting against diphtheria, pertussis, and tetanus

[DOWNLOAD THE GRAPHIC HERE](#)

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TETANUS RESOURCES

- A Look at Each Vaccine: Diphtheria, Tetanus and Pertussis Vaccines [Vaccine Education Center, Children's Hospital of Philadelphia]
- TDAP Vaccine: What You Need to Know [American Academy of Pediatrics]

✔ Vaccinating pregnant women against tetanus not only protects them from infection during pregnancy, but also transfers antibodies to prevent disease in newborns
[#VaccinesWork](#)

✔ The use of tetanus vaccines has reduced neonatal tetanus deaths by 97%
[#VaccinesWork](#)

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VACCINE VICTORIES

DIPHTHERIA



Diphtheria toxoid was **1 of 6** vaccines included in the EPI at its inception



From 1980–2000, diphtheria vaccines reduced the number of reported cases globally by more than **90%**



In 2022, **84%** of infants worldwide received 3 doses of a vaccine protecting against diphtheria, pertussis, and tetanus



Recent diphtheria outbreaks underscore the importance of vaccination coverage across the life course; **80-85%** vaccine coverage is required to maintain herd protection and prevent future outbreaks

[DOWNLOAD THE GRAPHIC HERE](#)

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DIPHTHERIA RESOURCES

- A Look at Each Vaccine: Diphtheria, Tetanus and Pertussis Vaccines [Vaccine Education Center, Children's Hospital of Philadelphia]
- TDAP Vaccine: What You Need to Know [American Academy of Pediatrics]

✔ The diphtheria vaccine is highly effective, reducing the number of cases globally by more than 90% from 1980–2000 [#VaccinesWork](#)

✔ To maintain herd protection and prevent outbreaks, we need to continue efforts to ensure children everywhere have access to diphtheria vaccines [#VaccinesWork](#)

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**VACCINE
VICTORIES**

PERTUSSIS



Pertussis is also known as
whooping cough



Pertussis vaccine was **1 of 6** vaccines
included in the EPI at its inception



Since widespread use of pertussis
vaccine in the US, incidence has
decreased more than **75%**



In 2022, **84%** of infants worldwide
received 3 doses of a vaccine
protecting against diphtheria,
pertussis, and tetanus

[DOWNLOAD THE GRAPHIC HERE](#)

SHARE ON SOCIAL MEDIA

➤ Pertussis (aka whooping cough) incidence
has decreased more than 75% in the US since
widespread use of pertussis vaccine

[#VaccinesWork](#)

➤ In 2022, 84% of infants around the world
received 3 doses of a vaccine protecting
against diphtheria, pertussis, and tetanus

[#VaccinesWork](#)

PERTUSSIS RESOURCES

- A Look at Each Vaccine: Diphtheria, Tetanus and Pertussis Vaccines [Vaccine Education Center, Children's Hospital of Philadelphia]
- TDAP Vaccine: What You Need to Know [American Academy of Pediatrics]

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VACCINE VICTORIES

BCG

BACILLUS CALMETTE-GUERIN



The BCG vaccine was **1 of 6** immunizations included in the EPI at its inception



The BCG vaccine has been in use for more than **100 years** and has been given to more than **3 billion** children worldwide



BCG vaccines help to protect infants and young children against tuberculosis (TB), an infectious disease that causes more than **1.8 million** deaths each year

[DOWNLOAD THE GRAPHIC HERE](#)

SHARE ON SOCIAL MEDIA

BCG RESOURCES

- The Other Pandemic: The Promise of TB Vaccines [VoICE]
- Questions and Answers About Tuberculosis [CDC]
- BCG Vaccine Fact Sheet [CDC]

✔ More than 3 billion children have been vaccinated with the BCG vaccine since its introduction more than 100 years ago

[#VaccinesWork](#)

✔ TB causes more than 1.8 million deaths around the world each year, but BCG vaccines can help to protect infants and young children from this devastating disease

[#VaccinesWork](#)

RESOURCES ON VACCINE MISINFORMATION

Uinfluence

A part of UNICEF's Digital Community Engagement Initiative, UInfluence is an interactive digital platform that promotes accurate messaging around vaccination, including topics such as polio and COVID-19.

Vaccine Misinformation Management Field Guide

UNICEF, First Draft, Yale Institute for Global Health, and PGP (The Public Good Projects) partnered to create a guide that aims to help organizations rapidly counter vaccine misinformation and build demand for vaccinations that are informed by social listening. The guide is available in multiple languages.

Fighting Polio Vaccine Misinformation

This article catalogues several UNICEF and country-specific initiatives to eradicate vaccine misinformation.

Misinformation: A Strategic Approach

This webinar from the Sabin Vaccine Institute and UNICEF delves into strategies for immunization professionals to manage vaccination misinformation, including an evidence-based review of the impact of misinformation on vaccination.

Community-led Strategies to Aid Vaccine Acceptance: Nine Case Studies from Around the World

The Sabin Vaccine Institute's 2021-2022 Social and Behavioral Grants Program partners worked to apply a range of social and behavioral science approaches to investigate and inform locally suitable solutions to support acceptance and uptake of COVID-19 vaccination, develop strategies to address the misinformation within the COVID-19 infodemic, and assess the impact of the pandemic on routine vaccination among hard-to-reach communities and zero-dose populations. Each case study has been compiled to inform action and investment around the globe that seek to build more vaccine confident communities.

Countering Online Misinformation Resource Pack

This UNICEF resource provides easy access to various tools (reports, toolkits, journal articles, and more) that can support the development of tactics and plans to counter misinformation. The pack also provides a summary of what the research indicates as potential solutions to tackle misinformation.

RESOURCES FOR ADVOCATES

Vaccine Safety: Get the Facts (American Academy of Pediatrics)

All About the Recommended Immunization Schedules (American Academy of Pediatrics)

Children's Hospital of Philadelphia Vaccine Education Center

[healthychildren.org](https://www.healthychildren.org)

[vaccineinformation.org](https://www.vaccineinformation.org) (For the General Public) | [immunize.org](https://www.immunize.org) (For Healthcare Providers)

CDC-Supported Multi-Language Vaccine Information Statements (VIS)

[voicesforvaccines.org](https://www.voicesforvaccines.org)

REFERENCES

HPV

- VIEW-hub HPV module
- WHO – HPV
- WHO – Global strategy to accelerate the elimination of cervical cancer as a public health problem
- CDC – Cancers Caused by HPV are Preventable

Polio

- VIEW-hub IPV module
- CDC – Polio Vaccination: What Everyone Should Know
- WHO – Poliomyelitis

Hib

- VIEW-hub Hib module
- WHO – Immunization Coverage
- CDC – About Hib Vaccines
- CDC – Hib Vaccination: What Everyone Should Know

Hepatitis B

- CDC – Hepatitis B FAQs
- WHO – Hepatitis B
- Hepatitis B Foundation – Vaccine for Hepatitis B
- Flores et al., 2022

Measles

- WHO – Essential Programme on Immunization
- VIEW-hub MCV module
- CDC – About Global Measles, Rubella, and Congenital Rubella Syndrome
- WHO – Measles

Rubella

- CDC – Progress Toward Rubella and Congenital Rubella Syndrome Elimination – Worldwide, 2012–2022
- CDC – About Global Measles, Rubella, and Congenital Rubella Syndrome
- WHO – Rubella

Pneumococcal Disease

- VIEW-hub PCV module
- CDC – Pneumococcal Disease: Surveillance and Reporting
- WHO – Pneumococcal conjugate vaccines in infants and children under 5 years of age: WHO position paper – February 2019

Tetanus

- WHO – Essential Programme on Immunization
- WHO – Maternal and Neonatal Tetanus Elimination
- WHO – Tetanus vaccines: WHO position paper – February 2017
- WHO – Global immunization efforts have saved at least 154 million lives over the past 50 years

Diphtheria

- WHO – Essential Programme on Immunization
- WHO – Diphtheria vaccine: WHO position paper – August 2017
- WHO – Global immunization efforts have saved at least 154 million lives over the past 50 years

Pertussis

- WHO – Essential Programme on Immunization
- CDC – Pinkbook: Pertussis
- WHO – Global immunization efforts have saved at least 154 million lives over the past 50 years

BCG

- WHO – Essential Programme on Immunization
- Cernuschi et al., 2018
- WHO – BCG vaccine