



# SANOFI PASTEUR, VACCINE LEADER AGAINST POLIO

## TWO VACCINES, ONE GOAL: ZERO POLIO

Since 1988, the Global Polio Eradication Initiative (GPEI) - spearheaded by the World Health Organization (WHO), Rotary International, the US Centers for Disease Control and Prevention (CDC) and UNICEF - has achieved a 99% reduction in the number of polio cases worldwide. This reduction has been achieved as a result of the large-scale administration of Oral Polio Vaccine (OPV) under its trivalent form.

- 1988: 350,000 estimated cases (Wild Poliovirus) – 125 endemic countries
- 2018: 33 confirmed cases (wild polio cases) – 3 endemic countries <sup>(1)</sup>
- 2019 (as of November 14): 100 confirmed cases (wild polio cases) – 2 endemic countries <sup>(1)</sup>
- Over 10 million people escaped paralysis since 1988



Since 2013, WHO has recommended that all children receive routinely at least one dose of Injectable, Inactivated Polio Vaccine (IPV).

## SANOFI PASTEUR PROVIDES TWO VACCINES

### Injectable, inactivated polio vaccine (IPV):

- Inactivated vaccine (killed polio virus)
- First developed in 1952 by Jonas Salk <sup>(2)</sup>
- All countries in the world are now using IPV <sup>(3)</sup>
- Sanofi Pasteur has provided more than 1 billion doses of IPV and IPV-containing combination vaccines

### Oral polio vaccine (OPV):

- Live-attenuated vaccine (weakened polio virus)
- Developed in 1957 by Albert Sabin <sup>(4)</sup>
- Instrumental in the reduction of disease burden by 99% worldwide



## SANOFI PASTEUR CONTRIBUTION TO POLIO ERADICATION INITIATIVE

- Sanofi Pasteur is committed to provide the majority of the IPV vaccines, from 2019 to 2023, in response to a UNICEF tender, for inclusion in countries' Expanded Programme on Immunization (EPI).
- In 2014, Sanofi Pasteur and the Bill & Melinda Gates Foundation have developed a price mechanism to offer the IPV vaccine at the lowest price to 73 of the world's poorest countries supported by the GAVI Alliance.
- In 2011, Sanofi Pasteur donated its vaccine strain against type 3 poliovirus (OPV3) to the WHO.
- Sanofi Pasteur has provided more than 6 billion doses of OPV to UNICEF over last two decades.

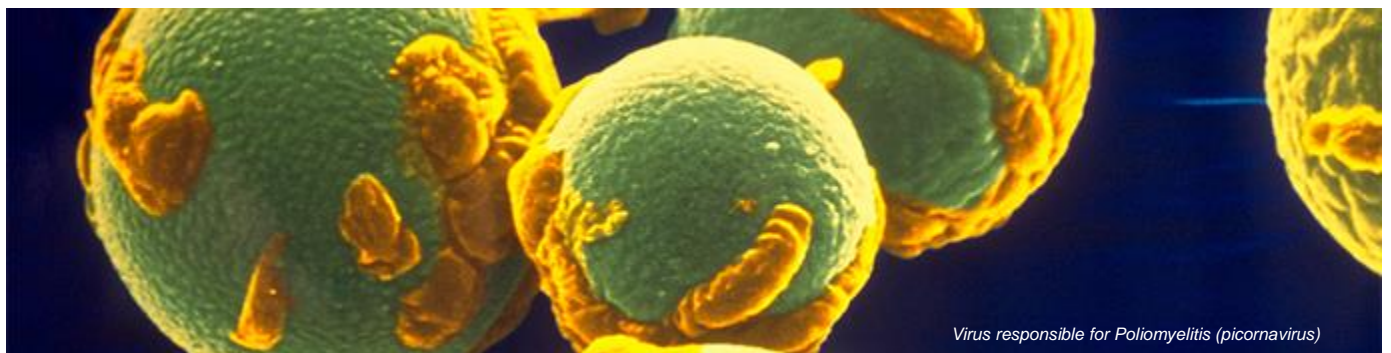


## IPV: STANDARD OF CARE IN POLIO-FREE COUNTRIES

- IPV eliminates the risk of vaccine-associated paralytic poliomyelitis (VAPP) that rarely occurs with the use of oral poliovirus vaccine (OPV).
- Europe and North America implemented IPV and IPV-containing combination vaccines in the 1980's.
- An increasing number of polio-free countries are including IPV in their national polio immunization programs. In 2007, Mexico was the first Latin American country to choose IPV containing pediatric vaccine in a national immunization program, followed by Costa Rica in 2010 and Brazil in 2012.
- In 2013, WHO recommended that all children receive routinely at least one dose of IPV.
- Today, all countries have introduced IPV or IPV-containing vaccines<sup>(3)</sup>.

## ABOUT POLIOMYELITIS

Polio is a highly infectious disease caused by a virus. It can invade the nervous system and can cause total paralysis in a matter of hours. The virus enters the body through the mouth and replicates in the intestine. Initial symptoms are fever, fatigue, headache, vomiting and stiffness in the neck and pain in the limbs. One in 200 infections leads to irreversible paralysis (usually in the legs). Among those paralyzed, 5% to 10% die when their breathing muscles become immobilized<sup>(5)</sup>.



*Virus responsible for Poliomyelitis (picornavirus)*

REFERENCES

<sup>1</sup> Global Polio Eradication Initiative Data and Monitoring. Polio this week. Available at: <http://polioeradication.org/poliotoday/polio-now/this-week/>

<sup>2</sup> Plotkin SA, Vidor E. Poliovirus vaccine – inactivated. In Vaccines, Fifth Edition. Edited by Stanley A. Plotkin, Walter Orenstein and Paul Offit, WB Saunders Company, Orlando. 2008, 605-630.

<sup>3</sup> GAVI. Inactivated polio vaccine now introduced worldwide. May 9, 2019. Available at: <https://www.gavi.org/library/news/press-releases/2019/inactivated-polio-vaccine-now-introduced-worldwide/>

<sup>4</sup> Cochi SL. Poliovirus vaccine – live. In Vaccines, Fifth Edition. Edited by Stanley A. Plotkin, Walter Orenstein and Paul Offit, WB Saunders Company, Orlando. 2008, 631-686.

<sup>5</sup> WHO Poliomyelitis Fact sheet N°114 updated April 2017 - Available at: <http://www.who.int/mediacentre/factsheets/fs114/en/index.html>



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