

End Polio Now Global Update



Rotary Foundation Dinner
Perth, WA. 17 March 2023
Zone 8 EPNC Murray Verso



PolioPlus statue outside One Rotary Center, Evanston
Sculpted by Glenna Goodacre. Dedicated in 1991

Polio Eradication is Rotary's #1 Global Project.



POLIO is an ancient disease



**Priest with polio
Egypt 1580 BC**

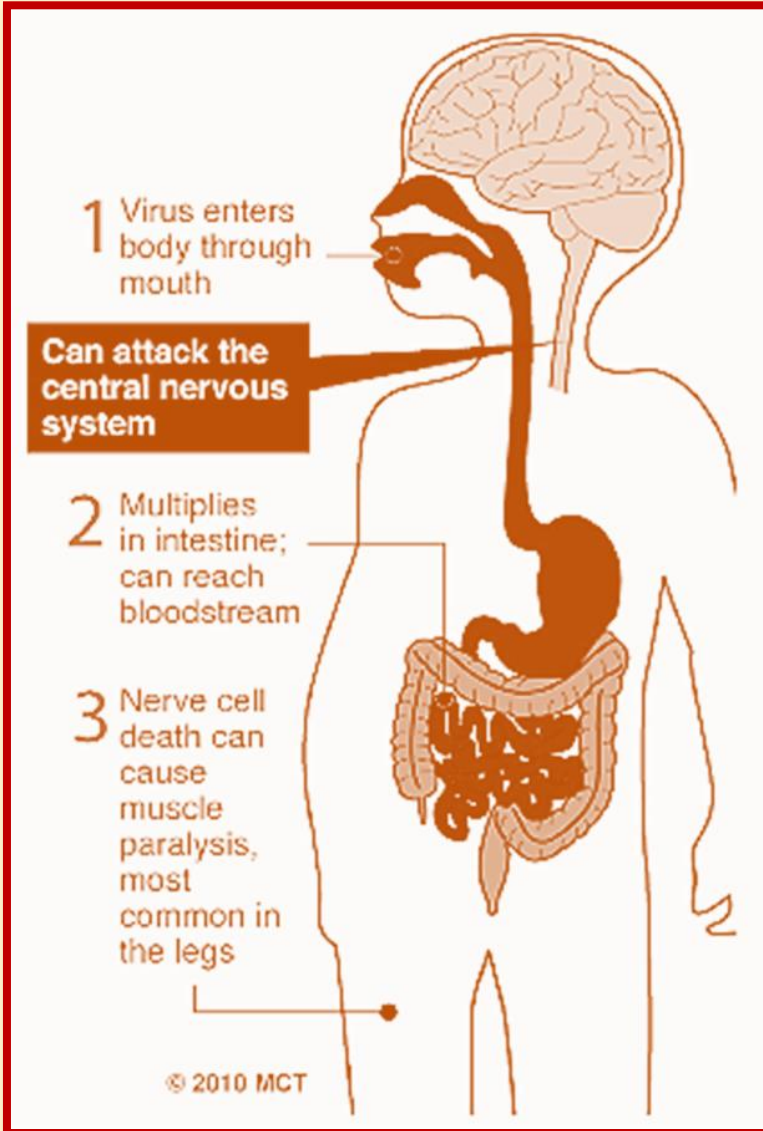


**Girl with polio
in 1950s**



**Polio victim begging
in street. Agra, India**

WHAT IS POLIO?

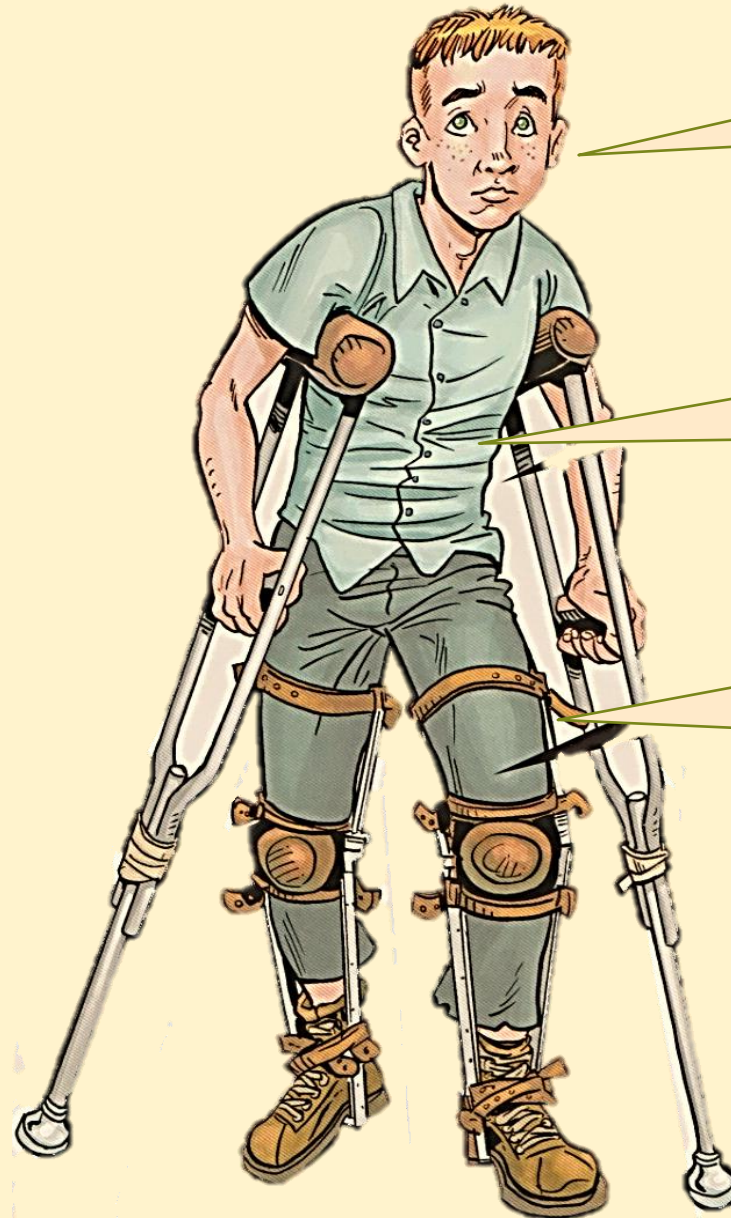


“Infantile paralysis”



WHAT IS POLIO?

Fewer than one in 100 infected people get a paralytic form of the disease. When this happens the virus destroys motor neurons, the nerves that control muscles.



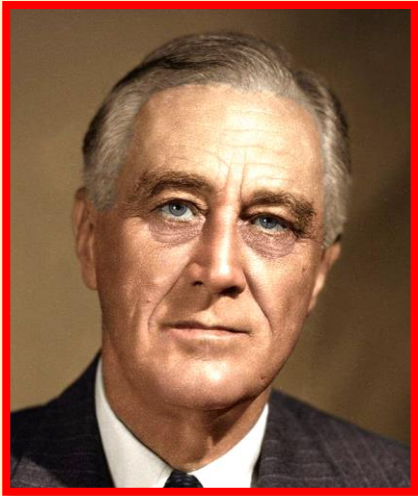
If polio attacks the brain stem it becomes hard to breathe, swallow, or speak

If polio attacks the spinal cord muscles that were controlled by those nerves atrophy or become paralysed

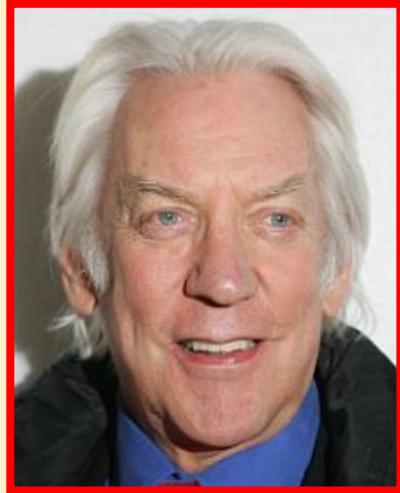
If polio attacks the limbs (usually the legs) they become floppy and lifeless. This is known as acute flaccid paralysis.



Well known polio survivors:



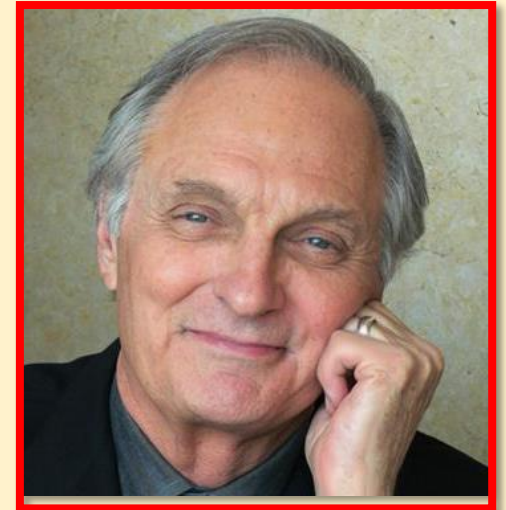
Franklin Roosevelt



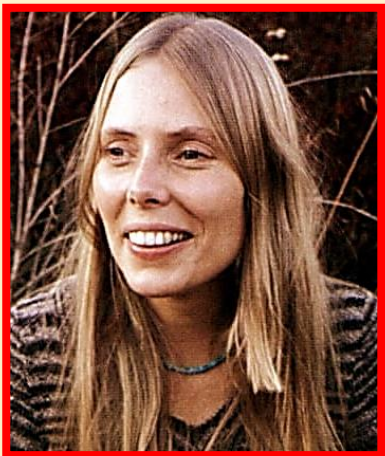
Donald Sutherland



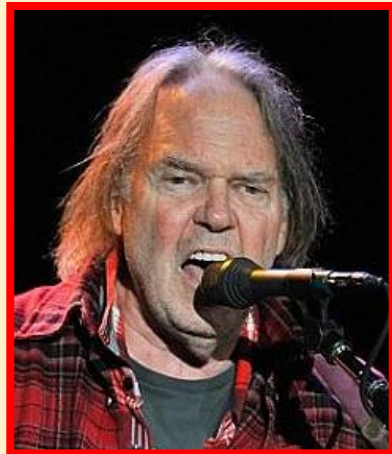
Mia Farrow



Alan Alda



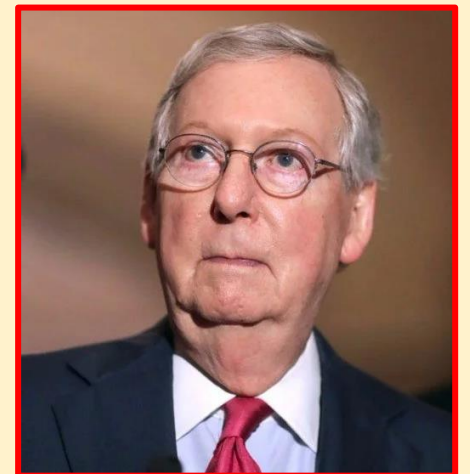
Joni Mitchell



Neil Young



Gene Simmons



Mitch McConnell

Australian polio survivors:



**Olympian:
Jon Konrads**



**Radio announcer:
John Laws**



**Media magnate:
Kerry Packer**



Politicians: Joh Bjelke-Petersen



& Kim Beazley

June Middleton (1926 –2009)



Aged 22



Aged 83

Melbourne woman who spent more than 60 years living in an iron lung.

Sir Clem Renouf AM

19 April 1921 – 11 June 2020



**President
Rotary International
1978 -1979**

**Australian Founder
of Rotary's
polio eradication
campaign**

Partners in the Global Polio Eradication Initiative



BILL & MELINDA
GATES *foundation*



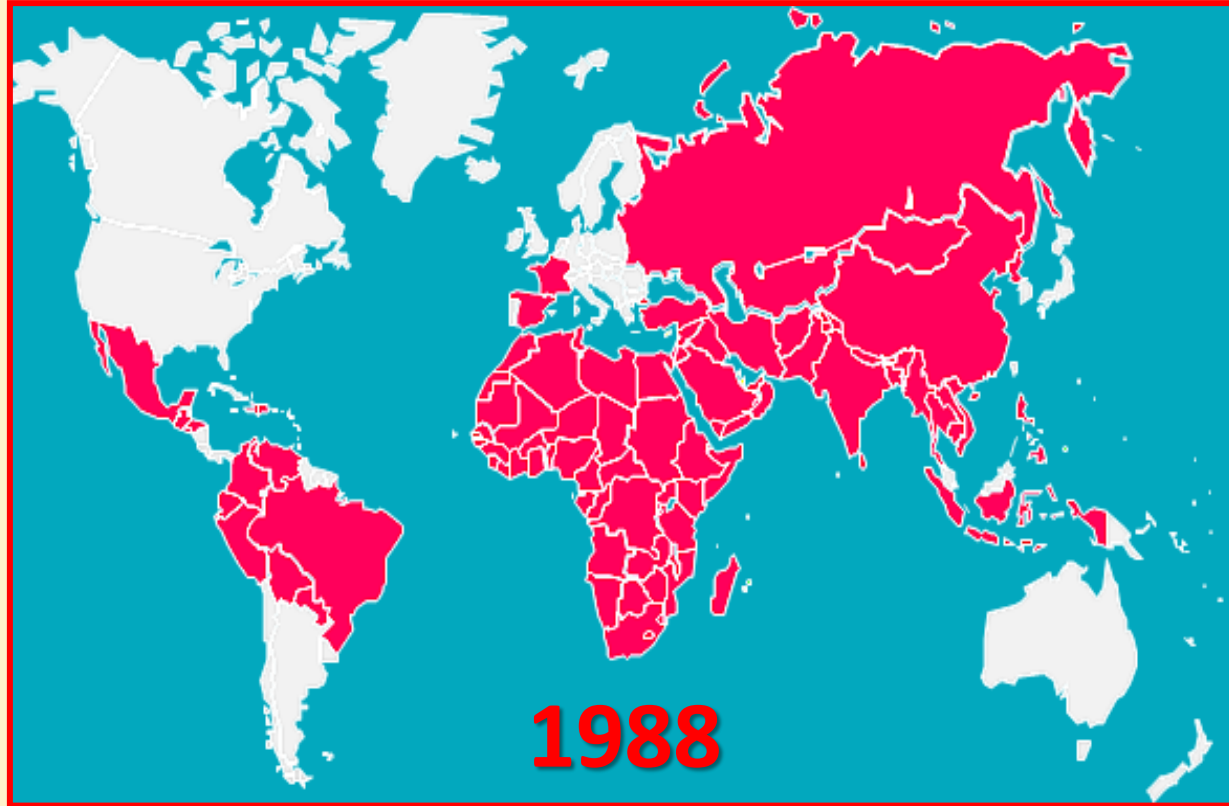
Polio Eradication – What have we achieved ?



- 3 Billion Children vaccinated.
- 99% reduction in cases
- 19 million people walking & not paralyzed.
- Contributed \$2.5 Billion
(i.e. \$0.83B matched 2:1 by the Gates Foundation's \$1.67B)
- Helped prevent other vaccine preventable diseases:
(e.g. Measles, Ebola, Covid 19, etc.)



Remaining polio endemic countries: Afghanistan & Pakistan



350,000 WPV cases



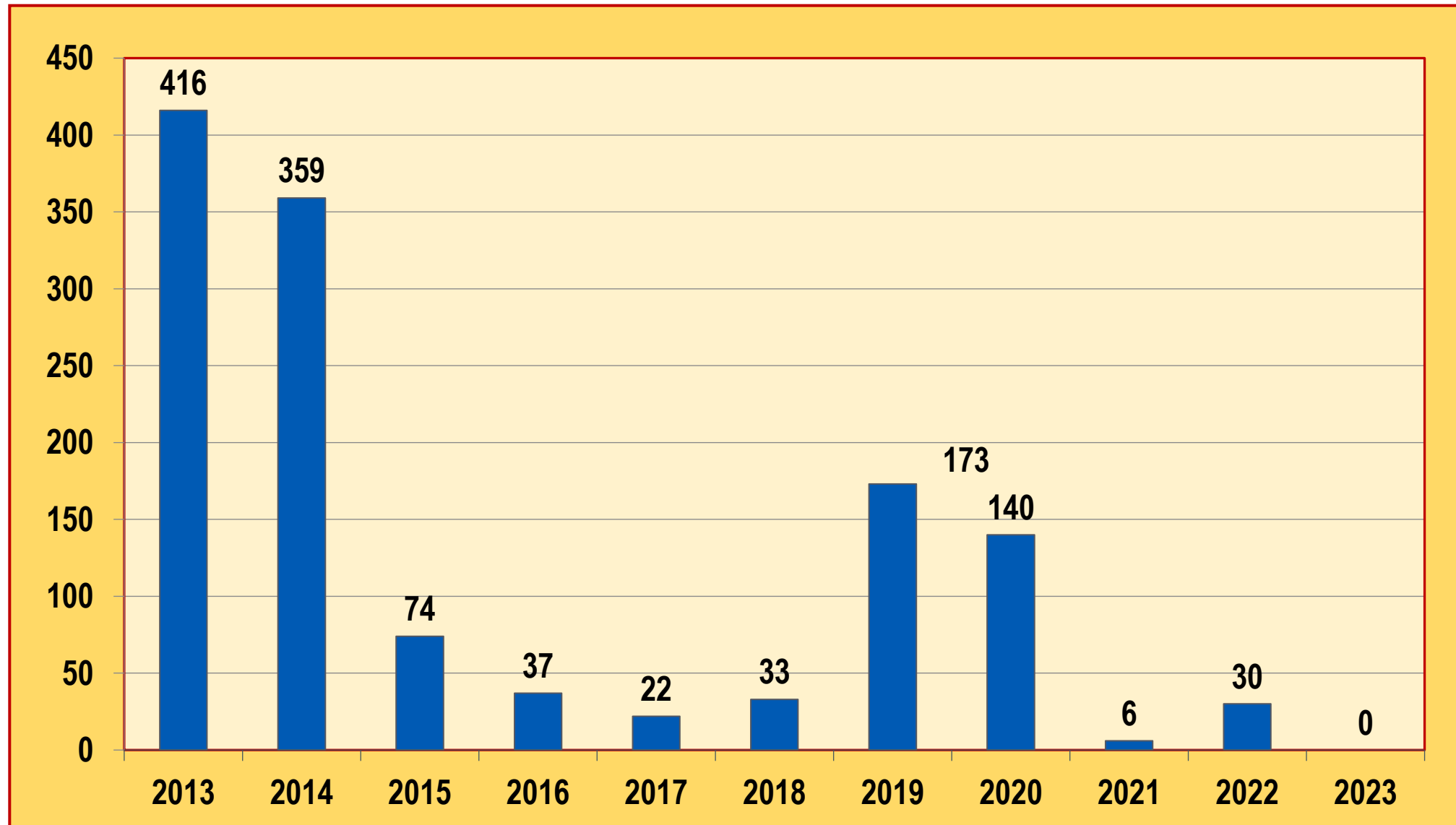
30 WPV cases

Polio Eradication

What is the
current status?



Polio Cases 2013 – 2023

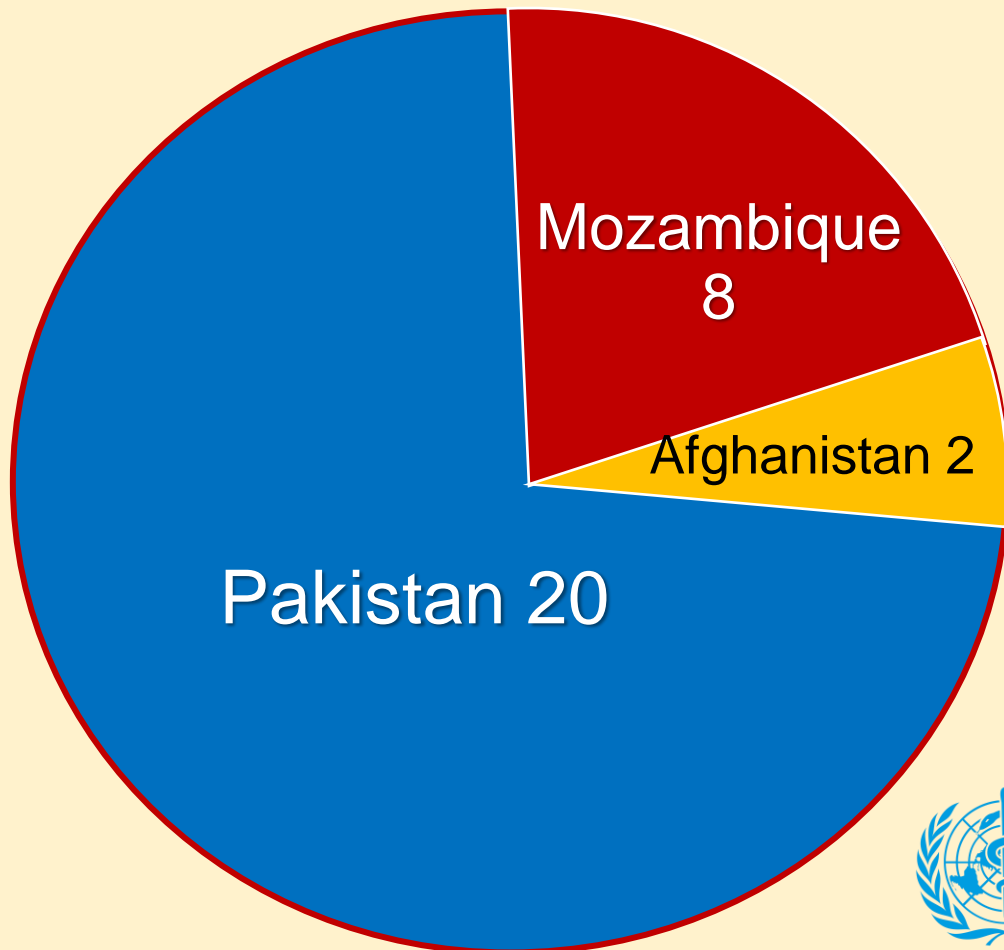


Wild Polio Virus Weekly Update

14 March 2023

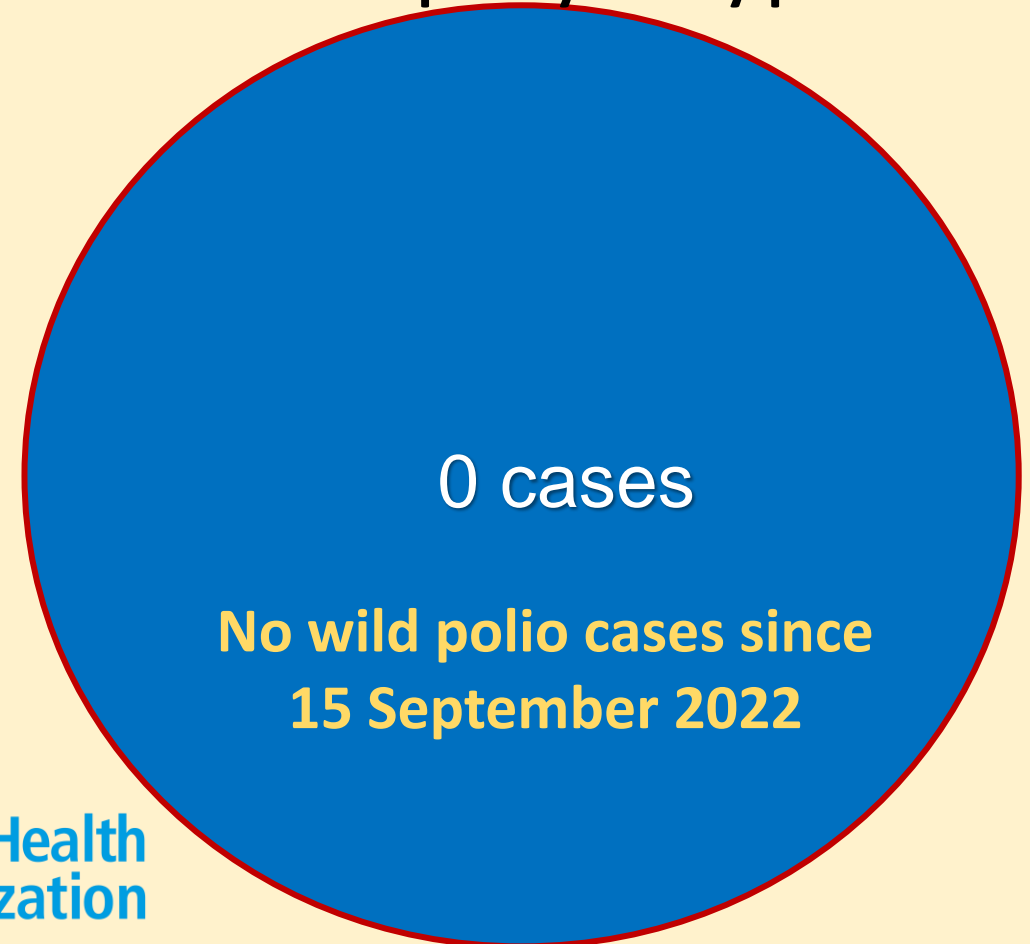
2022

30 children paralysed by polio



2023

0 children paralysed by polio



World Health
Organization

Wild Polio Virus Summary

as at March 14, 2023

Global Wild Poliovirus 2016 - 2023

COUNTRY	Full year total							01 Jan – 7 Feb		Date of most recent case
	2016	2017	2018	2019	2020	2021	2022	2022	2023	
Pakistan	20	8	12	147	84	1	20	0	0	15 September '22
Afghanistan	13	14	21	29	56	4	2	1	0	29 August '22
Mozambique	0	0	0	0	0	0	8	0	0	10 August '22
Malawi	0	0	0	0	0	1	0	0	0	19 November '21
Nigeria	4	0	0	0	0	0	0	0	0	21 August 2016
TOTAL	37	22	33	176	140	6	30	1	0	



No wild polio cases since 15 September 2022



Circulating Vaccine Derived Polio Virus (cVDPV)

as at March 14, 2022₃



If a population is seriously under-immunized, there are enough susceptible children for the excreted vaccine-derived polioviruses to begin circulating in the community. If the vaccine-virus is able to circulate for a prolonged period uninterrupted, it can mutate and, over the course of 12-18 months, reacquire neurovirulence. These viruses are called circulating vaccine-derived polioviruses (cVDPV).

Polio subtype	2023	2022	TOTAL 2022	2021	2020	2019	2018
Type 1	Madagascar x 5	DR Congo 115, Mozambique 21, Madagascar 13, Malawi 4,	155	16	35	12	27
Type 2	Chad x 2 Indonesia x 2 Nigeria x 1 Somalia x 1 Israel x 1 Benin x 1	Yemen 162, DR Congo 318, Nigeria 48, Chad 44, Niger 15, Benin 11, Somalia 5, Central African Republic 5, Mozambique 4, Ghana 3, Algeria 3, Togo 2, Mali 2, Cameroon 3, Eritrea 1, Ethiopia 1, United States 1, Indonesia 1, Sudan 1, Burundi 1.	631	682	1082	366	71
Type 3	0	Israel 1	1	0	0	0	7
TOTAL	13		787	698	1117	384	105

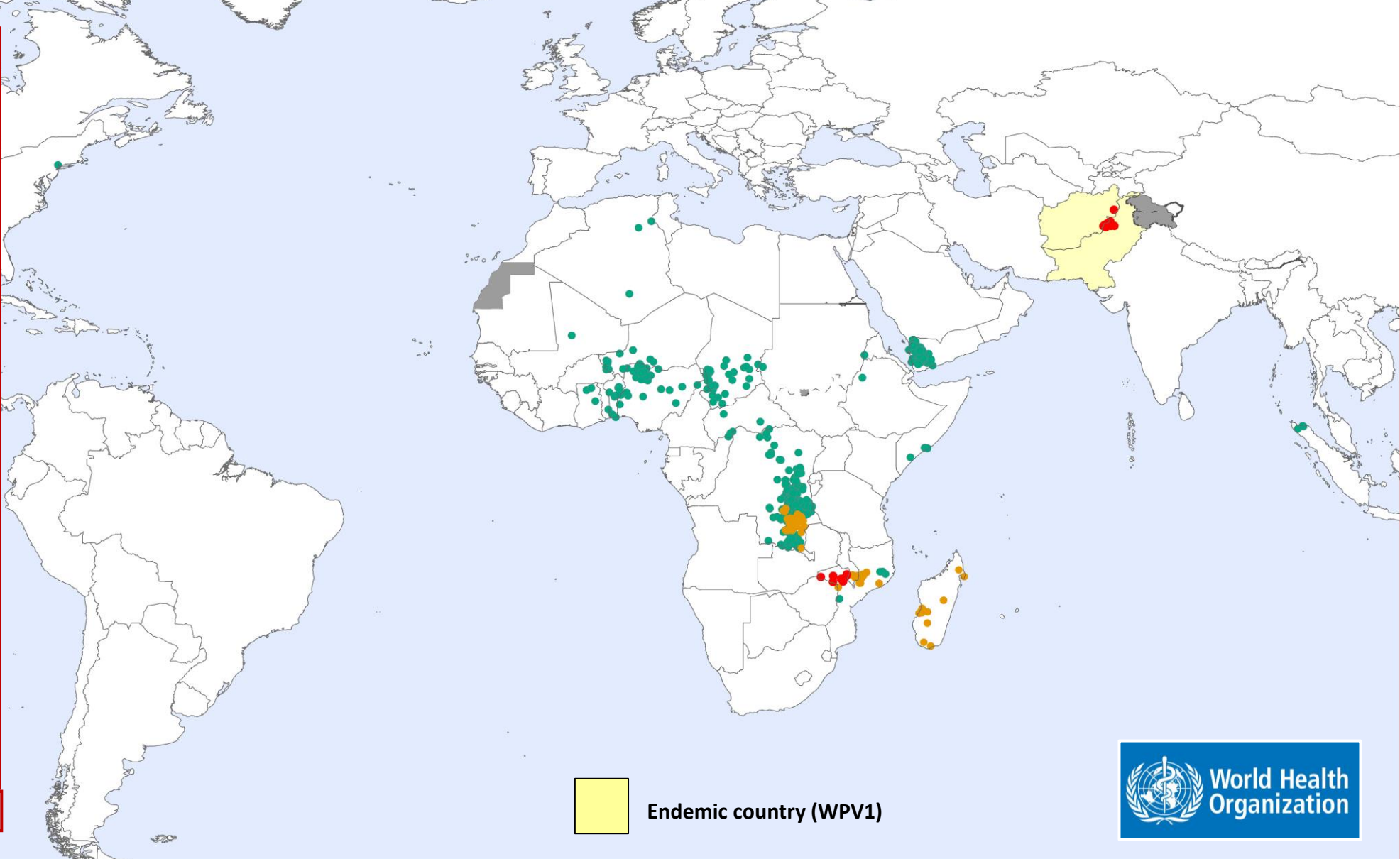
Any form of poliovirus anywhere is a threat to children everywhere!

Data in WHO HQ
as of 14 March 2023

Global WPV1 & cVDPV Cases, Previous 12 Months

● WPV1 cases (latest onset)		
Pakistan	20	15-Sep-22
Afghanistan	1	29-Aug-22
Mozambique	8	10-Aug-22
● cVDPV1 cases (latest onset)		
Madagascar	16	28-Jan-23
DR Congo	115	26-Dec-22
Malawi	4	01-Dec-22
Mozambique	21	20-Nov-22
Congo	1	15-Oct-22
● cVDPV2 cases (latest onset)		
Israel	1	13-Feb-23
Indonesia	3	13-Jan-23
Somalia	4	12-Jan-23
Chad	43	06-Jan-23
Benin	12	02-Jan-23
Nigeria	25	01-Jan-23
DR Congo	271	30-Dec-22
CAR	5	26-Dec-22
Niger	13	25-Dec-22
Cameroon	3	22-Dec-22
Yemen	95	14-Dec-22
Algeria	3	13-Dec-22
Burundi	1	24-Nov-22
Sudan	1	31-Oct-22
Mali	2	26-Oct-22
Togo	1	30-Sep-22
Ghana	3	14-Sep-22
USA	1	20-Jun-22
Ethiopia	1	01-Apr-22
Mozambique	4	26-Mar-22

Data in WHO HQ at 14 March 2023



■ Endemic country (WPV1)



The New York Times

First Polio Case in Nearly a Decade Is Detected in New York State

A man who lives in Rockland County was infected by someone who received the oral polio vaccine, which is no longer used in the United States, officials said.

By [Hurubie Meko](#)

Published July 21, 2022 Updated July 25, 2022

A case of polio has been identified in an unvaccinated adult man in Rockland County, officials said.

The New York State Department of Health and its Rockland County counterpart confirmed that the infection was transmitted from someone who received the oral polio vaccine, which has not been administered in the United States since 2000. Officials said in a news release that the virus may have originated outside the United States, where the oral vaccine is still administered.



NEWS

There's Polio in New York City's



WATCH LIVE

HEALTH AND SCIENCE

New York declares state of emergency over polio to boost low vaccination rates

PUBLISHED FRI, SEP 9 2022 12:01 PM EDT
UPDATED FRI, SEP 9 2022 8:17 PM EDT



Spencer Kimball
[@SPENCEKIMBALL](#)

WATCH LIVE

MEDICAL OBSERVER OPINION

Here's what the latest polio cases mean for Australia



[Professor Michael Toole](#)

Professor Toole is associate principal research fellow at the Burnet Institute, Melbourne, Victoria.

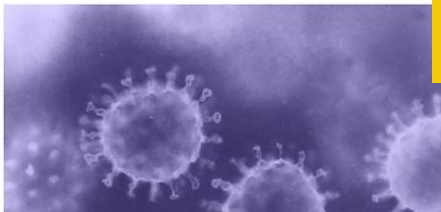
3 minutes to read

22nd August 2022

Until recently, polio had only been detected in a handful of countries, thanks to global eradication efforts.

But this year's polio alerts in the US, UK and Israel are a reminder that as long as poliovirus is found anywhere, it is a potential problem everywhere.

That could include Australia.



Rotary

POLIO IS ONLY A PLANE TRIP AWAY

END POLIO NOW

IS A COMMITMENT NOT A DREAM

[f](#) [t](#) [i](#) /RotaryBuzz

EvanB

Most are harmless forms of the virus from people who have recently had a polio vaccination, but some have been identified as "vaccine derived poliovirus (VDPV2)". VDPV2 is when the virus in the vaccine replicates, mutates and behaves more like the wild form of the disease, which can cause paralysis.



Hindustan Times

FIRST WORD, LAST WORD

Why is polio on the rise in Pakistan?

Published on Jun 09, 2022 04:16 PM IST

Polio cases are on the rise in Pakistan although it's an illness eradicated almost everywhere else in the world. Part of the problem is widespread vaccine skepticism and outlandish conspiracy theories.

Rotary

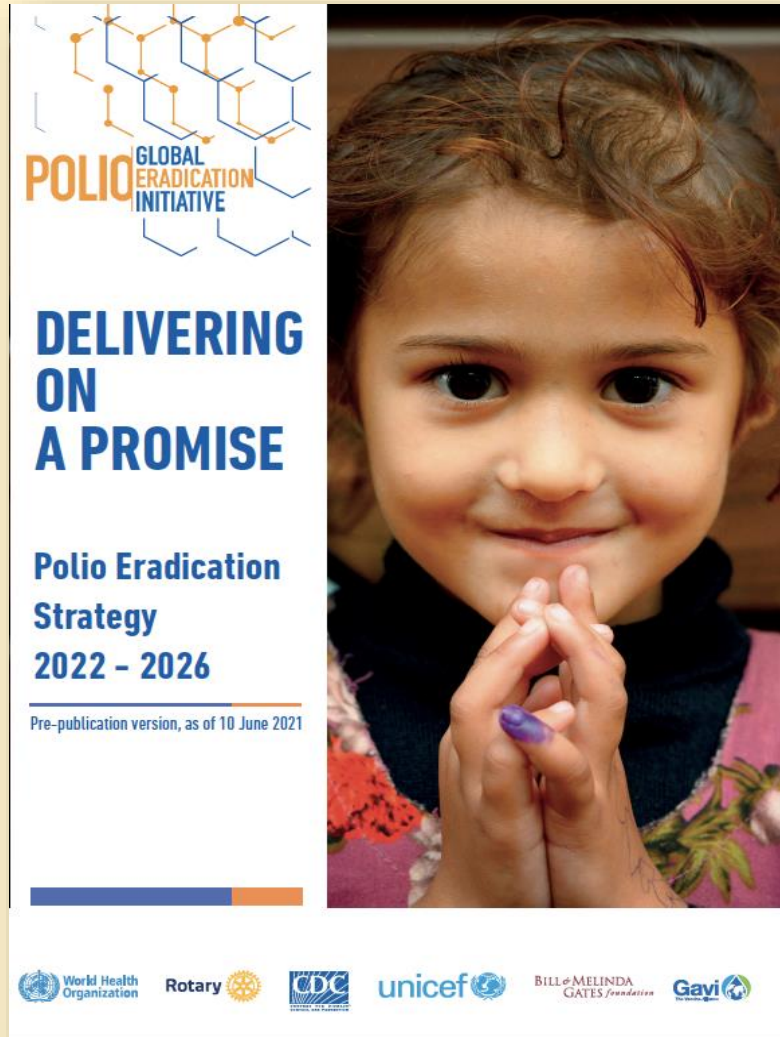


Polio Eradication

How can we
reach our
goal?



GPEI Polio Eradication Strategy



Goal one:

Permanently interrupt transmission of all poliovirus in Afghanistan and Pakistan by end of 2023. Certification by end of 2026.

Goal two:

Stop transmission of circulating vaccine-derived poliovirus type 2 by end of 2023 and prevent outbreaks in polio-free regions.

\$^{US} 4.8 billion needed over 5 years to achieve these goals

3000 international scientists, physicians, and public health experts have endorsed the GPEI 2022-2026 Strategy and called on donors to stay committed. (*World Health Summit, October 2022*)

Timeline to achieve polio eradication goals

2021

2022

2023

2024

2025

2026



Wider use of novel oral polio vaccine type 2



Interrupt transmission of wild poliovirus type 1 and report last isolate of circulating vaccine-derived poliovirus type 2



Certify the eradication of wild poliovirus type 1 and validate the absence of circulating vaccine derived poliovirus type 2



ENDPOLIONOW

ERADICATING POLIO – THE CHALLENGES

- ❖ **Persisting pockets of missed children in conflict countries and geographically remote areas.**
- ❖ **Rise of circulating vaccine derived polio (cVDP) in regions of low immunization**
- ❖ **Spread of misinformation**
 - e.g. CIA poisoning children
 - False purple pinkies
- ❖ **Maintaining political commitment.**
 - e.g Election year in Pakistan
- ❖ **Threats to polio workers**
 - e.g. Physical attacks / shootings
 - Restrictions on dress & work for females in Afghanistan
 - Floods in Pakistan impacted 12,500 polio workers
- ❖ **Securing financial resources**
 - i.e. USD 2.5 billion needed to finish the job



ERADICATING POLIO – THE GOOD NEWS

- ❖ Zero wild polio virus cases since 15 September 2022.
- ❖ Geographical restriction of WPV transmission to eastern Afghanistan and a few districts of north-western Pakistan.
- ❖ Genetic strains of WPV have dropped from thirteen to just a single lineage in each endemic country over the past year.
- ❖ Introduction of Novel Oral Polio Vaccine (nOPV2) is reducing the likelihood of circulating vaccine derived polio (cVDPV) outbreaks
- ❖ Gender initiatives improving immunization rates
- ❖ National governments & other agencies are providing financial support



Global Leaders Pledge to Ending Polio

- **Australia - AU\$ 43.55 million**
- France - EUR 50 million
- Germany - EUR 72 million
- Japan - US\$11 million
- Republic of Korea - KRW 4.5 billion
- Luxembourg - EUR 1.7 million
- Malta - EUR 30 000
- Monaco - EUR 450 000
- Spain - EUR 100 000
- Turkey - US\$ 20 000
- United States - US\$ 114 million
- **Gates Foundation - US\$1.2 billion**
- Bloomberg Philanthropies - US\$50 million
- Islamic Food and Nutrition Council of America
- US\$ 1.8 million
- Latter-Day Saint Charities - US\$ 400 000
- **Rotary International - US\$150 million**
- UNICEF - US\$ 5 million



Rotary Foundation Chair of Trustees, Ian Riseley with Dr Chris Elias (Gates Foundation) at the World Health Summit, Berlin 18 October 2022



This is how we are doing it ?



**Immunizing more than
370 MILLION CHILDREN**

in up to
60 countries
every year



**Funding more than
150,000 POLIO- WORKERS**

in up to
70 countries
annually



**Continuing
DISEASE SURVEILLANCE
ACTIVITIES**

in more than
70 countries

Polio Eradication

Rotary's
fund raising
commitment



END POLIO NOW

Rotary's Fundraising Campaign Goals

**ROTARY
INTERNATIONAL'S
COMMITMENT:**

**\$^{US}50 Million
per year**

**THE GATES
FOUNDATION
COMMITMENT:**

**Match Rotary
2 for 1**

TOTAL = \$^{US}150 Million per year

NB: The Gates Foundation will triple our donations until 2026

END POLIO NOW

To reach \$^{US}50 million Fundraising Goal:

**District
Goal
20% DDF**

(Matched 80%
from
World Fund)

**Club Goal
\$1500
per year**

**Personal
Goal
\$100
per year**

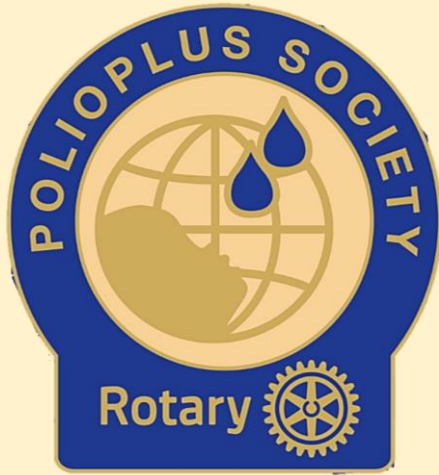


ENDPOLIONOW

Raising Awareness & Funds to End Polio



THE POLIO PLUS SOCIETY helping to END POLIO NOW

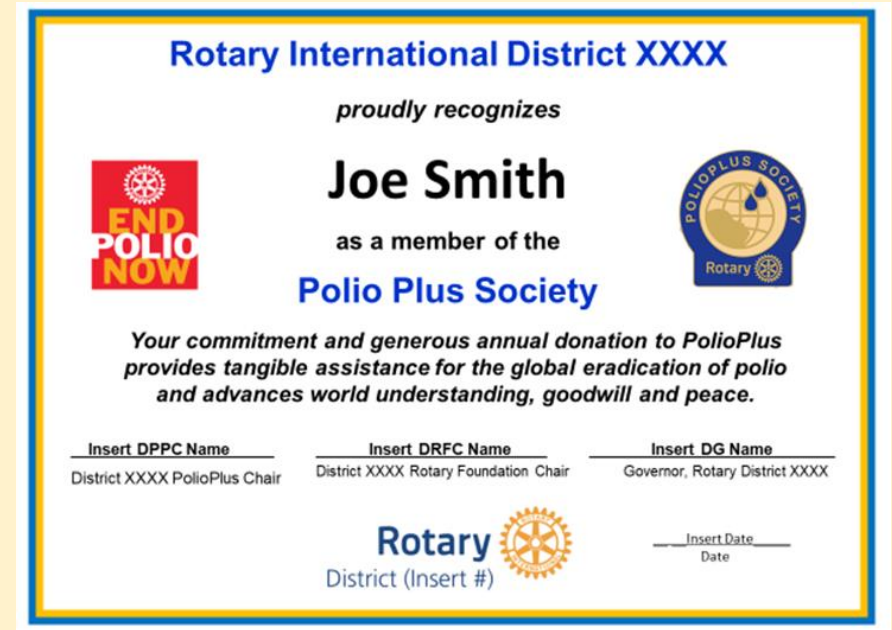


What is the PolioPlus Society?

- PolioPlus Society (PPS) encourages Rotarians to commit to a minimum of \$^{US}100 per year to the PolioPlus Fund until polio is eradicated completely.
- Society members receive a special PPS pin, and certificate.
- Administered by District PolioPlus Chairs, or their designates.

How to donate to PolioPlus thru the PPS:

- Go to my.rotary.org/donate and click on “Polio Fund”.
- Pledge \$^{US}100 per year, or \$^{AUD}15 /month until polio is eradicated.
- Rotarians are encouraged to join **PolioPlus Direct** (the recurring option),
- Send a **commitment form** to the District Polio Plus Society Coordinator (e.g. PDG Jodie Sparks)



This is where a \$^{US}100 donation is spent:

\$39.00 Getting Vaccines to Children

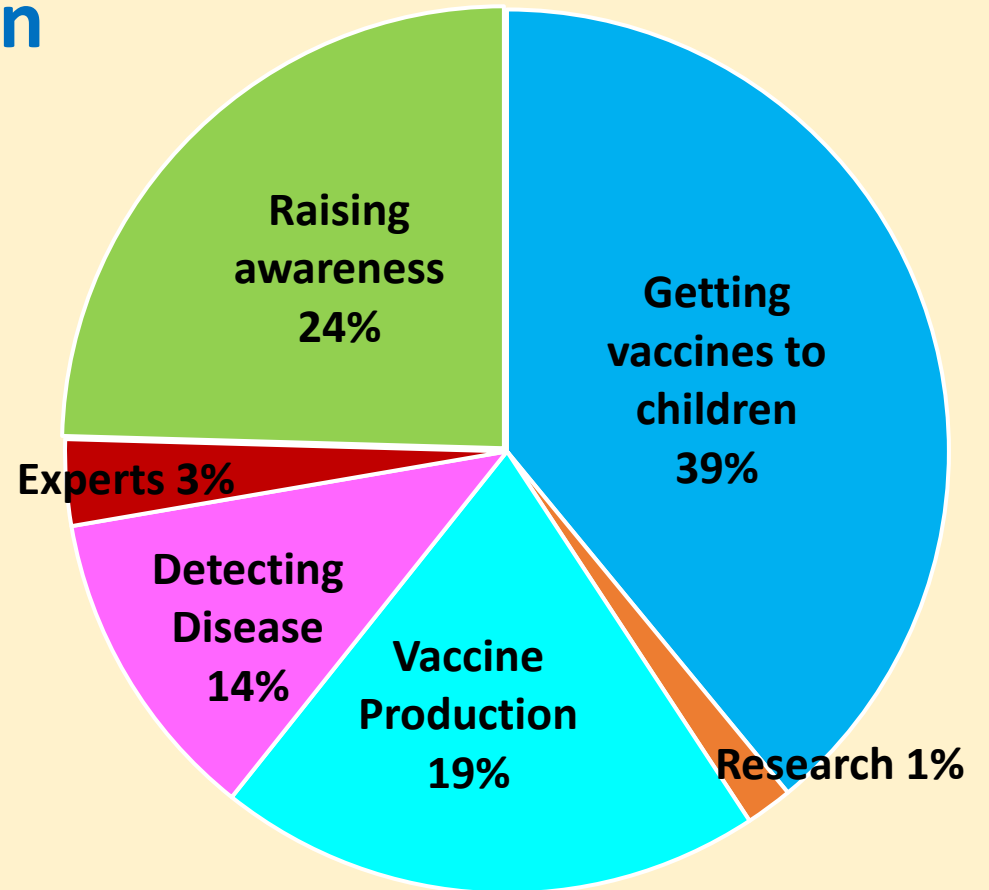
\$24.00 Raising Awareness

\$19.00 Vaccine Production

\$14.00 Detecting The Polio Virus

\$3.00 Funding Experts

\$1.00 Research



Make Polio Eradication Your Legacy.



**END
POLIO
NOW**

"So long as we never give up - then polio does not stand a chance"

Bill Gates

