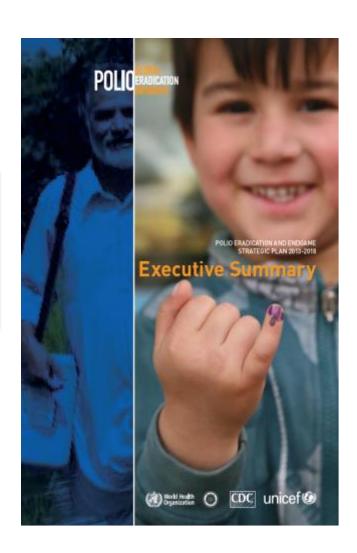


Objective 2 update: Implementation of OPV2 withdrawal and IPV introduction

Polio Eradication and Endgame Objectives

- 1. Poliovirus detection & interruption
- 2. OPV2 withdrawal, IPV introduction, immunization system strengthening
- 3. Containment & Global Certification
- 4. Legacy Planning





Overview of presentation

 Achievements and learnings from the tOPVbOPV switch

IPV introduction and global IPV supply

Progress on use of IPV fractional dose



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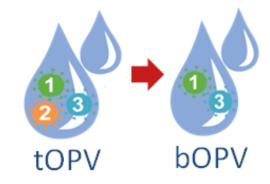
The OPV switch

April 2016 report to SAGE

5 day countdown to the global withdrawal of OPV type 2

October 2016 report to SAGE:

- Global switch occurred 17 April to 1 May
- All 155 countries/territories using tOPV switched to bOPV in a synchronised manner



Media coverage:

 More than 30 top tier global articles, approximately 50 more in national media. All accurate messaging.

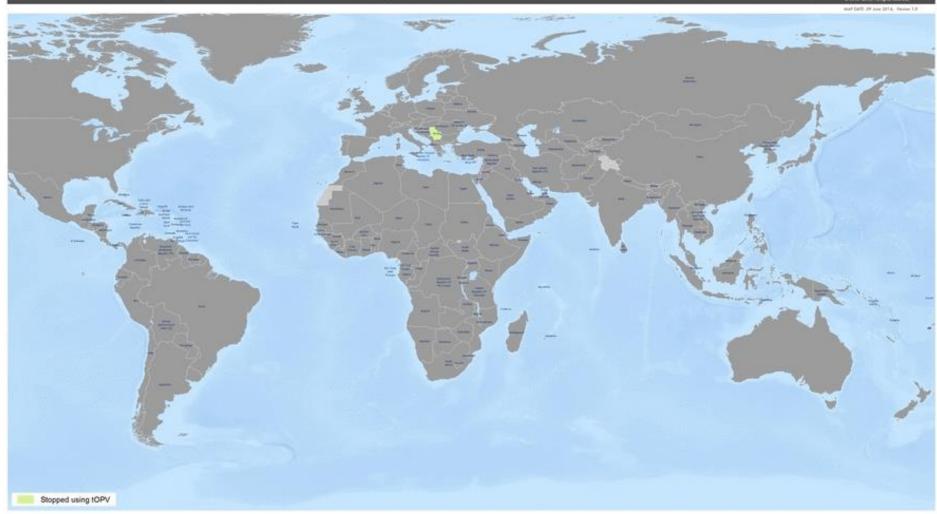




Switch progress over time

Global map showing when countries stopped using tOPV





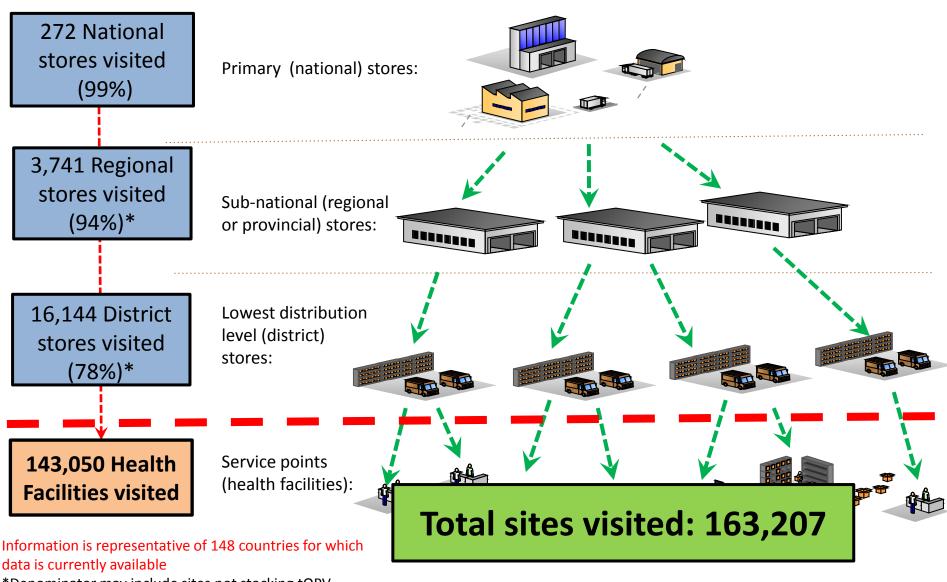
Map Scale (A3):1:80,000,000 1 cm = 800 km

Commission System GCS WCS 1984 Donner WCS 1984 Unit Degree Date Source:
Date and Admin Scientisms: World Health Organization
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to be extended in the consequence:



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Independent Monitoring (within 2 weeks of switch)



*Denominator may include sites not stocking tOPV





Learnings: Financial support for the switch

Achievements

- ✓ \$19.4 million in support provided to 67 targeted countries, over 4 month period
- ✓ 24 additional countries supported with savings from first round of applications
- ✓ Remained under the global envelope \$4.3 million in savings to GPEI
- ✓ Switch implementation was not compromised in any country due to lack of funds.

- Global and regional coordination was critical: Regional participation in vetting of applications and insight to country context was indispensable to the review process
- Importance of deadlines (at least 2 months prior to when funds are needed in country) to allow sufficient time for review and disbursement, and for governments to include funds in annual EPI workplans
- Be mindful of potential impediments such as biennium closures that may impact disbursement of funds to country
- Mechanisms for channelling of funds through UNICEF should be established and communicated in advance





Learnings: Communications

Achievements

- ✓ Established **strong awareness** at all levels of switch rationale, timelines and actions Developed a **complete range of technical guidance** and user-friendly templates
- ✓ Prevented any potential issues about vaccine safety related to the global "withdrawal" of a vaccine
- ✓ Managed national level communications via proactive and targeted engagement of stakeholders and key journalists in briefings focused on RI and polio eradication
- ✓ Maintained a web site as a core reference for all materials in multiple languages.

- Messaging and materials developed in levels of complexity, in multiple and adaptable formats and languages for easy local adaptation
- Very careful wording on the "global withdrawal" of a vaccine was essential
- Regular dialogue was essential for achieving comprehension, resolving questions and feedback, e.g. workshops, trainings, dry runs, webinars, etc.





Learnings: Monitoring and validation

Achievements

- ✓ Global guidance for monitoring and validation methodology developed
 - All national, provincial and district stores to be visited
 - At least 10% of the health facilities sampled and visited
- ✓ All countries conducted monitoring as per global guidelines and submitted validation reports (*Iraq pending*)

- "Minimum standard" approach that was manageable for countries
 - Setting a global bench mark, encouraging countries to expand on the framework
- Methodology disseminated widely (webinars and regional workshops)
- Detail of data reported up to HQ varied considerably across regions should be more prescriptive next time in detail of information to be collected
- Emphasis must be placed on need to supplement the independent monitoring with supervisory visits to ensure complete withdrawal from all facilities





Learnings: Waste management

Achievements

- ✓ Developed global guidance on disposal of useable, unopened, non-expired vaccines
- ✓ Identified gaps in waste management policies, strategies and local capacity
- ✓ Global observers did not observe disposal strategies beyond those recommended

Key Lessons

 Avoiding prescriptive recommendations (providing options) allowed for flexibility based on country capacity

Boiling



e.g. Ghana, Nigeria, CAR, Sierra Leone

Encapsulation



e.g. Haiti, Sierra Leone, South Sudan, Philippines, Myanmar, Madagascar

Autoclave



e.g. China, Guinea, CAR, Brazil, Colombia

Incineration



e.g. Algeria, Ecuador, Kenya, Mozambique, Uganda

Chemical Inactivation (bleach)



e.g. Mexico, Bolivia



Learnings: Global coordination

Achievements

- ✓ **Global coordination cell** set up in WHO HQ to monitor progress and troubleshoot any eventualities
- ✓ Daily switch update disseminated to partners and regions
- ✓ Dedicated live website with real-time maps showing switch progress
- ✓ Great example of inter agency collaboration (WHO, UNICEF, and partners) and within WHO (POL, EPI, Outbreaks and Health Emergencies)

- *Pre-switch:* Consistency of implementation sub-group calls was instrumental in maintaining momentum and keeping all regions informed on global progress
- *During switch:* Daily contact with **designated regional focal points** for up-to-date information
- Dedicated team at global level to respond to any issues arising
- Data updates streamlined to 4 core process indicators only





Creative launches and events



Vaccine parade during Vaccination Week

Vaccine parade during Vaccination Week in the Americas - **Guatemala**



Public ceremony in **Philippines**





Country-designed materials



Switch job aides and handbooks for HWs – Indonesia, Philippines



Country designed switch stickers and disposal bags – Jamaica, Nigeria, Philippines, China, Pakistan (and many others)

Using social media and apps

Use of social media – **Philippines**



World Health Organization Philippines with Leacyl Monghit-Malaki Hatud and 8 others.

Vesterday at 5:20am - @

It is the Philippines' turn to 'switch' today!

On its National Switch Day, the country joins the rest of the world in replacing the trivalent Oral Polio Vaccine with the bivalent type (tOPV to bOPV).

This global vaccine change has been happening in over 150 countries in a two-week period since mid-April 2016. For the Philippines, the National Switch Day is also the highlight of the country's celebration of the World Immunization Week.... See More





Monitoring mobile application — Jordan, Lebanon, Tunisia (developed by UNICEF MENA)

Gentle reminder, today 13th April, 2016 marks the last day of the use of tOPV and tomorrow 14th April, 2016 will be the start of the use of bOPV. After today, please let's start mopping up all please let's start mopping up all 16/04/2016 Sat 17, 6862 — agodemartha delivered to your facility?

a)Yes or b)No

Use of SMS/WhatsApp reminders

- Nigeria, Ghana, Kenya





Potential tOPV use after the switch

India

- Detection of Sabin like type 2 polioviruses through environmental surveillance in Hyderabad, indicating use of tOPV post switch
- Detailed investigation was launched in Hyderabad and neighbouring Rangareddy district of Telangana state in India
- Over 4400 health facilities have been searched in the two districts
 - 28 tOPV vials found in 13 health facilities all private clinics
 - All tOPV vials left-over from before the switch; labelled and removed

Guidance re-disseminated:

'How to handle and dispose of tOPV found after 1 May 2016'

- SOPs require obligatory reporting of any Sabin-like poliovirus 2
- Launch full field investigation in case Sabin-like poliovirus 2 identification





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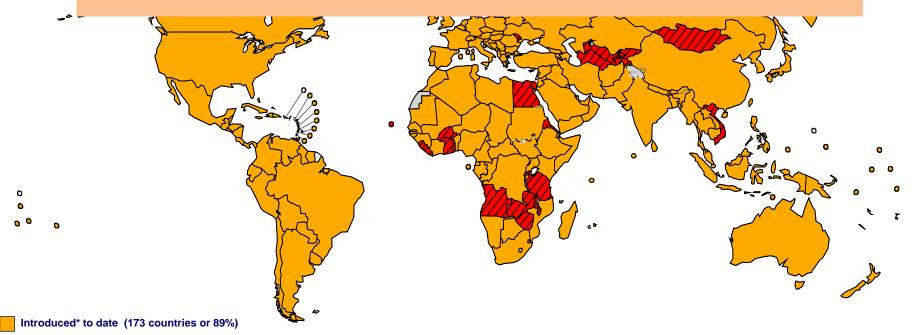
IPV introduction and global IPV supply

Progress on use of IPV fractional dose



IPV introductions 105/126 countries (since 2013)

90% of the global cohort living in countries where IPV has been introduced



Introduction delayed to 2017 (21 countries or 11%)

Not available

Not applicable

* Including partial introduction in India

The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement. ©WHO 2016. All rights reserved.

Data source: WHO/IVB Database, as of 07 October 2016 Map production Immunization Vaccines and Biologicals (IVB), World Health Organization

Date of slide: 7 October 2016





Summary of the impact of short supply on Tier 3 and 4 countries (approx. 22% of birth cohort)

Suspend IPV supply for 50 countries (to Q4 2017) of which 29 have already introduced IPV and will face stock outs in 2016

Delayed introductions (10% cohort)	
Tier 3	Tier 4
Angola	Ghana
Burkina Faso	Cape Verde
Eritrea	Malawi
Liberia	Rwanda
Mongolia	Tanzania
Sierra Leone	Togo
Egypt	Zimbabwe
Turkmenistan	Zambia
Tajikistan	Kyrgyzstan
	Moldova
	Uzbekistan
	Vietnam

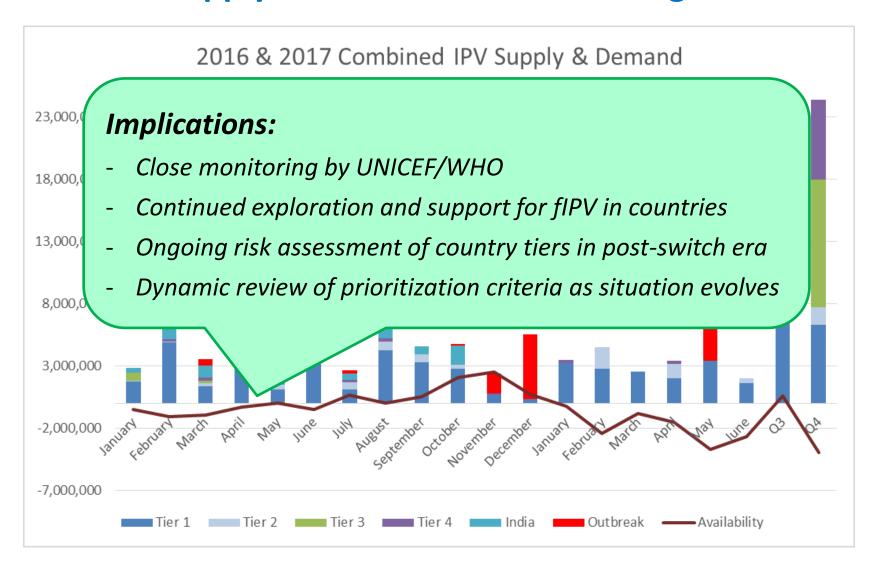
Delayed resupply (12% cohort)	
Tier 3	Tier 4
Burundi	Comoros
Cote d'Ivoire	Gambia
Guinea Bissau	Lesotho
Senegal	Morocco
Sudan	Sao Tome
Iran	Swaziland
Bangladesh	Djibouti
Nepal	Bhutan
	Namibia
	Sri Lanka
	DPRK
	Maldives
	Seychelles
	Pacific Islands*

^{*} Eight countries of the Pacific Islands are provided IPV through UNICEF procurement: Cook Islands, Fiji, Kiribati, Nauru, Samoa, Solomon Islands, Tonga and Vanuatu.





IPV supply and demand: Crisis management







Applied principles for allocating the IPV supply

The Polio Oversight Board, which is made up of the heads of agencies of GPEI partners agreed to the following (April 2016)

- Ensure adequate IPV supply to meet current and future needs of Afghanistan, Pakistan, Nigeria to ensure interruption of WPV transmission
- 2. Sustain use of IPV in routine immunization programme in highest risk countries (Tier 1 and Tier 2)
- 3. Ensure sufficient quantities of IPV are available for outbreak response post-switch
- 4. Provide clarity to Tier 3 and 4 countries regarding supply availability so they can adequately plan



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Use of fractional dose of IPV

WHA resolution A 69.25, May 2016

Member States to explore the feasibility of instituting dose-sparing strategies,
 such as intra- dermal administration of fractional-dose IPV

Routine Immunization

- India has introduced fIPV in 14 states (2 additional states by end October)
- Sri Lanka began fIPV in routine programme as of 15 July
- Bangladesh to begin fIPV in 2017

Outbreak response

- India vaccinated 312,000 children (6 wks 3 yrs) with fIPV in Hyderabad and Rangareddy districts (Telangana state), June 20-26 2016
 - Area already using fIPV in routine immunization
 - Used 10 dose presentation with 40-47 doses extracted (5-20 % wastage)
 - No adverse reports with multiple punctures of vial stopper
- Other countries responding to an outbreak must consider fIPV approaches



Devices for administration of ID fractional dose

Syringe adapter for auto-disable (0.1 ml syringer)

Plastic adapter attached to regular need

ge to optimize

To support national decision-making:

- Information pack with evidence-base on fIPV disseminated
- Guidance on programmatic considerations in development (financing, training, comms., schedule, wastage, etc.)
- All materials + documentation of experiences using fIPV available on a dedicated web page
- Available Q4/2010 of early 2017

Need



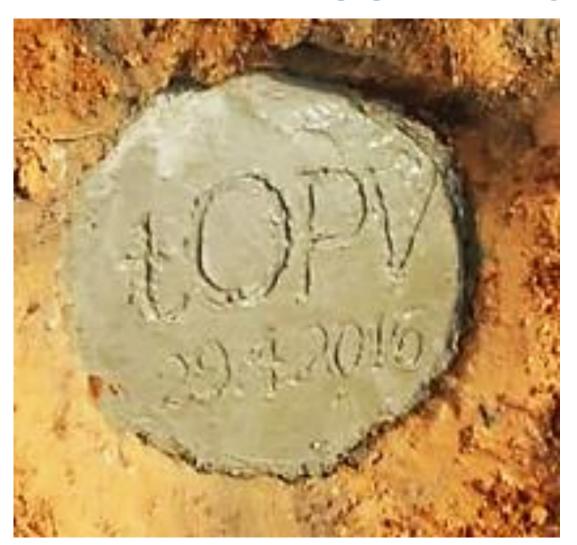


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Conclusion

- Continue vigilance on preventing inadvertent use of tOPV
- Document lessons learned to inform future bOPV withdrawal
 - Journal of Infectious Diseases supplement, 2017 to document lessons learned from the work of the IMG for the eventual bOPV withdrawal
 - Vaccine: Upcoming supplement on the switch for African region. (Polio Eradication Initiative Best Practices in the WHO African Region, Volume 34, Issue 43, 10 October 2016)
 - A photo story is now live: http://maps.who.int/OPV switch/
 - Video stories being produced by several regional offices
- Initial planning of the OPV withdrawal under Immunization Management Group
- Ongoing monitoring of the global IPV supply and refinement of risk-based <u>allocation approach</u>

THANK YOU - MERCI



Goodbye tombstone to tOPV, April 2016

Myanmar