#### POLIO VIRUS RESURGENCE: SCIENCE & TECHNOLOGY

**NEWS:** A global polio resurgence and the need to reevaluate the basics

#### WHAT'S IN THE NEWS?

WHO detected poliovirus in wastewater across several European countries with no confirmed cases, highlighting the need for strong vaccination and surveillance. Globally, vaccine-derived cases persist, prompting experts to recommend switching from OPV to IPV to prevent outbreaks.

## **Poliovirus Detection in Europe**

- WHO detected poliovirus in wastewater systems across Finland, Germany, Poland, Spain, and the UK (since September 2024).
- No confirmed cases of polio reported in these countries to date.

#### **Global Polio Cases**

- Pakistan: 4 cases of WPV1 and 8 WPV1-positive environmental samples.
- Cameroon, Côte d'Ivoire, Chad, and Nigeria: Reported cases of cVDPV2.
- Environmental detection of cVDPV2: Found in cities like Barcelona (Spain), Warsaw (Poland), and Munich (Germany).

### Vaccination Coverage and Immunity

- High immunization rates (85%-95%) in Finland, Germany, Poland, Spain, and the UK provide protection from paralysis.
- Immunity gaps identified in subnational areas with low vaccination coverage.

#### **Debates on Transmission Routes**

- Traditional faecal-oral transmission debated.
- Recent studies highlight respiratory transmission as a significant route.

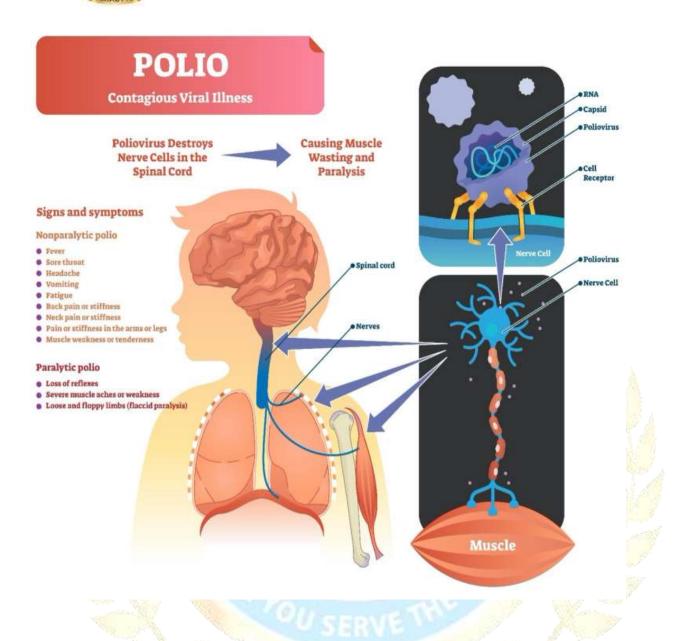
## Vaccine Strategy

• Experts recommend switching globally from OPV to IPV to prevent vaccine-derived polio cases and support eradication efforts.



# PL RAJ IAS & IPS ACADEMY

MAKING YOU SERVE THE NATION



Source: <a href="https://www.thehindu.com/sci-tech/health/a-global-polio-resurgence-and-the-need-to-reevaluate-the-basics/article69026816.ece">https://www.thehindu.com/sci-tech/health/a-global-polio-resurgence-and-the-need-to-reevaluate-the-basics/article69026816.ece</a>