

November 10th, 2018 Sample Current Affairs

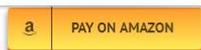
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1. Protecting against polio: The inactivated polio vaccine is essential for India

- Why the inactivated polio vaccine is essential for India?**
- Is India completely free of polio virus?**
- Why Oral Polio Vaccine (OPV) is not recommended against the Injected Polio Vaccine (IPV)?**
- Why India is delaying the administration of IPV?**

GS paper 2 (Issues related to health, education and human resources)

In this video, you can find detailed answers for all the above questions.

The above article has been retrieved from:

R. Prasad. (2018, November , 10).
Protecting against polio. The Hindu. Retrieved from
<https://www.thehindu.com/opinion/op-ed/protecting-against-polio/article25439062.ece>

What is the context about?

- Recently, type 2 polio vaccine virus was found in some sewage and stool samples.
- The detection of type 2 vaccine virus indicates that a very robust polio surveillance jointly managed by Union Health Ministry and World Health Organisation is still maintained even though seven years have elapsed since the last wild poliovirus case in the country was reported.

- ❑ This detection indicated the use of a type 2 poliovirus containing vaccine, despite the fact that, the trivalent Oral Polio Vaccine (tOPV) that contained type 2 poliovirus vaccine had been phased out globally, and in India, in April 2016, as a part of the Polio End Game strategy.

Why the inactivated polio vaccine is essential for India?

- ❑ With wild polio virus strains reduced by 99.9% since 1988, the world is inching towards eradicating polio.
- ❑ But unfortunately, more children today are affected by the live, weakened virus contained in the oral polio vaccine (OPV) that is meant to protect them.
- ❑ The weakened virus in the vaccine can circulate in the environment, occasionally turn neurovirulent and cause vaccine-derived poliovirus (VDPV) in unprotected children.

Is India completely free of polio virus?

- ❑ Out of the three wild-types of poliovirus that cause the disease, the transmission of one, Wild Poliovirus 2 (WPV-2), was interrupted successfully more than a decade ago.
- ❑ The two remaining viruses, now seen in Pakistan, Afghanistan and Nigeria, are WPV-1 and WPV-3.
- ❑ The IPV is essential for post wild-type polio virus eradication, to get rid of VDPV and VAPP.

- Once we stop these two viruses in their tracks, OPV will be phased out and replaced globally with IPV.

Why Oral Polio Vaccine (OPV) is not recommended against the Injected Polio Vaccine (IPV)?

- The primary objective of polio vaccination is to prevent the disease, which the OPV failed to fully achieve.
- The OPV was used for eradicating purposes but without fully protecting the children.
- When you give a vaccine, you must ensure that the child doesn't get polio. Only the IPV can do that. A child has to be given several doses of the OPV.
- Even then, the OPV doesn't fully protect the child. There was no reason for not using both the IPV and the OPV.

Why India is delaying the administration of IPV?

- The reason for not switching over to the IPV is because global production was too low to meet India's demand.
- India is the largest cohort. It needs 48 million doses per year to immunise all children.
- With no way of monitoring VAPP cases in India, there is no way of knowing if the use of a single dose of IPV followed by immunisation using bivalent OPV has led to a reduction in the number of VAPP cases.