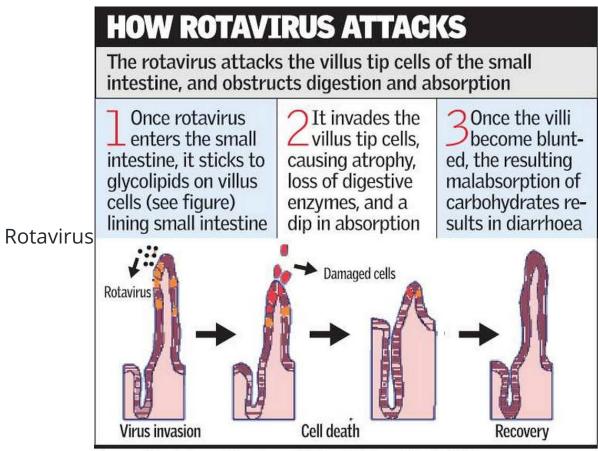


Rotavirus Vaccination Drive

drishtiias.com/printpdf/rotavirus-vaccination-drive

The government of India is set to launch a rotavirus vaccine drive across **all states and Union territories** by September 2019.

- The vaccine is currently being administered in Himachal Pradesh, Haryana, Odisha, Andhra Pradesh, Assam, Tripura, Rajasthan, Madhya Pradesh, and Tamil Nadu.
- The Rotavac has been introduced in <u>India's Universal Immunisation Programme</u> (UIP) including <u>Inactivated Polio Vaccine</u> (IPV), <u>Measles</u>, Rubella (MR) vaccine, Adult <u>Japanese</u> <u>Encephalitis</u> (JE) vaccine, <u>Tuberculosis</u>, Diphtheria, Pertussis, Hepatitis B, Pneumonia and Meningitis due to Haemophilus Influenzae type b (Hib).



Source: Principles and Practices of Clinical Virology. 5th ed. 2004

- Rotavirus can cause diarrohea, which can lead to dehydration (not having enough water in the body).
- Rotavirus is a **contagious disease** that spreads easily from child to child.
- Rotavirus spreads when a person comes in contact with the **feces** of someone who has rotavirus and then touches their own mouth. For example, rotavirus can spread when a child with rotavirus doesn't wash their hands properly after going to the bathroom and then touches food or other objects.
- Symptoms
 - Severe diarrhea
 - Throwing up
 - Dehydration
 - Fever
 - Stomach pain
- <u>World Health Organisation</u> (WHO) recommends that the **first dose** of rotavirus vaccine be administered as soon as possible **after 6 weeks of age**, along with DTP vaccination (diptheria, tetanus and pertussis).
- WHO has recommended the inclusion of rotavirus vaccine in the National Schedules of the countries where under five mortality due to diarrhoeal diseases is more than 10%.

- Currently, two vaccines are available against rotavirus:
 - **Rotarix** (GlaxoSmithKline): is a **monovalent vaccine recommended** to be orally administered in two doses at 6-12 weeks.
 - **Rota Teq** (Merck) is a **pentavalent vaccine** recommended to be orally administered in three doses starting at 6-12 weeks of age.

Monovalent vaccine and Pentavalent vaccine

- Monovalent vaccines are designed to immunize against a **single antigen** or **single microorganism**.
- Pentavalent vaccine provides protection to a child from five life-threatening diseases

 Diphtheria, Pertussis, Tetanus, Hepatitis B and Haemophilus Influenzae type b
 (Hib).