

ZIKA VIRUS

- Mosquito-borne illness caused by Zika virus, primarily transmitted by bite of infected Aedes Mosquitoes

Can lead to serious birth defects if contracted during Pregnancy

- Agent Factor

Zika Virus

1 February 2016 - outbreak was declared as a PHEIC by WHO 2016-Gujarat 2017-18-Rajasthan & Madhya Pradesh 2021-Uttar Pradesh (more than 100 cases)

Icosahedral, Enveloped, Single Stranded, Positive Sense, RNA, Arbovirus

of Flavivirus Genus

- Host Factor

Pregnancy (Child born to Infected Mother may lead to serious birth defects)

Environment Factor

- o Open Water Storage, Stagnant Water in Roof Trash, Discarded Containers, Broken Flowerpots & used Tires

Mode of Transmission

Mosquito Bite (Primarily) - Aedes Mosquito (*A. aegypti* & *A. albopictus*)

Mother to Child - during Delivery

Sexual Contact, Blood Transfusion & Organ Transplantation

- Incubation

Period

o 3-14 days

Clinical Features

Viremia - 3 days between 3rd to 5th day
Asymptomatic-in 80 %
Symptoms (last for 2-7 days) - Fever, Rash, Conjunctivitis, Muscle & Joint Pain, Malaise, & Headache
o Neurological complications

Diagnosis

Adults - Guillain-Barre Syndrome, Neuropathy & Myelitis

Newborns (Transplacental Transmission)- Microcephaly, Chorioretinal Scarring, Hydrops Fetalis
Zika virus infection during

Pregnancy

Responsible for Congenital Abnormalities in Newborns such as limb Contractures, High Muscle Tone, Eye Abnormalities & Hearing Loss which are collectively referred to as Congenital Zika Syndrome

May also cause - Fetal Loss, Still Birth & Preterm Birth

- RTPCR on Serum (1-3 days) & Saliva (3-5 days)
- Nucleic Acid Amplification Test (NAAT) & Serology

For rising titres of IgM levels detection using body fluids, including Blood, Urine or Semen

- India - NCDC (New Delhi) & NIV

(Pune)

Treatment

No Specific Treatment (Symptomatic Treatment including Rest, Oral Hydration, Antipyretics & Analgesics)

• Prevention

Protection against Mosquito bites

- Light Color Full Sleeve clothes, Screening of Doors & Windows, Mosquito Nets, Insect Repellents Elimination Of Mosquito Breeding Sites

Covering Water Storage Containers, Removing Stagnant Water in Flowerpots, Cleaning up