

# Arbovirus Diagnostics



## Staff Members

Dr. PS Sathe

Scientist D & Group Leader

[padmakar\\_sathe@yahoo.co.in](mailto:padmakar_sathe@yahoo.co.in)

## Technical Staff

Mr. BD Walhekar

Technical Officer

Mr. VA Sonawane

Technical Officer

Mr. TLG Rao

Research Assistant

Mr. AN Deshpande

Technician

Mr. AD Kamble

Technician

Mr. KR Kshirsagar

Technician

Smt SD Kulkarni

Technician

## Supply of MAC ELISA diagnostic kits as contribution to National Programme on monitoring incidence of JE, Dengue and Chikungunya in the country

PS Sathe

### Arbovirus Diagnostics Facility :

The department of Arbovirus Diagnostics and Virus Registry is one of the service departments and has following major responsibilities

- To supply JE, Dengue and Chikungunya diagnostic kits (MAC ELISA kits) and flavivirus antigens.
- Registration of clinical samples received in the institute.
- Supply of virus strains to research organization in the country
- Screening human samples (Pre-vaccination) for HI antibodies

### Supply MAC ELISA diagnostic kits and flavivirus antigens.

Eight hundred and Two MAC ELISA Kits were supplied to different organizations. Details of kits supplied is mentioned below:

JE	141
Dengue	364
Chikungunya	297
Total	802

### Registration of clinical samples received in the institute.

All the samples received in the institute are registered at a central registry in the institute and given a unique identification number. During the current year, seventeen thousand three hundred and sixty seven (17367) samples were registered and issued to different department in the institute for diagnosis.

### Supply of virus strains.

Seventy-three ampoules of different virus strains were supplied to various organizations and different departments within the institute. The virus strains were JE, Dengue, WN, Measles, CHIK, Herpes, CMV, and Coxsackie.

### Screening human samples for HI antibodies against Flaviviruses.

Two hundred and eighty seven samples collected from people normal healthy individual (pre-vaccination) were screened for flavivirus HI antibodies. The results are mentioned in the following Table

JE	WN	Dengue	Total
P	P	P	64
N	N	N	164
P	N	N	8
N	P	N	3
N	N	P	12
P	P	N	17
P	N	P	7
N	P	P	12

**P** HI positive,  
**N** HI Negative

### Publications

- Mittal A, Mittal S, Bharati JM, Ramakrishnan R, Saravanan S, Sathe PS. Optic neuritis associated with chikungunya virus infection in South India **Arch Ophthalmol**. 2007 Oct; 125(10):1381-6.
- Mittal A, Mittal S, Bharathi JM, Ramakrishnan R, Sathe PS. Uveitis during outbreak of chikungunya fever **Ophthalmology**, 2007 Sep;114(9):1798
- Lalitha P, Rathinam S, Banushree K, Maheshkumar S, Vijayakumar R, Sathe PS. Ocular involvement associated with an epidemic outbreak of chikungunya virus infection. **Am J Ophthalmol** 2007 Oct; 144(4):552-6.
- Tandale BV, Tikute SS, Arankalle VA, Sathe PS, Joshi MV, Ranadive SNet al Chandipura virus: A major cause of Acute Encephalitis in children in North Telengana, Andhra Pradesh, India. **J Med Virol** 2008;80(1): 118-124.