Advantage Chikungunya IgM Card

Indian Company to be granted Drug Manufacturing Licence for Chikungunya

ADV. CHIKUNGUNYA IGM CARD

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- Rapid Test for Qualitative Detection of Chikungunya Specific IgM antibodies in Human Serum/Plasma.
 - One Step Test Procedure.
- Results within 15 minutes.
- Bio-hazard free, fully covered, see-through Device.
- No Instruments required.
- Excellent Sensitivity & Specificity.
- Long Shelf Life: 18 Months at 2-30°C
- Convenient Pack size: 10 Tests & 25 Tests

Chikungunya...an epidemic Arbovirosis

Chikungunya: ...an epidemic Arbovirosis

Chikungunya is an arboviral disease transmitted by aedes mosquitoes. The disease typically consists of an acute illness characterised by fever, rash and incapacitating arthralgia. The word chikungunya, used for both the virus and the disease, means "to walk bent over" and refers to the effect of the joint pains that characterise this dengue-like infection. Chikungunya is a specifically tropical disease, but it is geographically restricted and outbreaks are relatively uncommon.



Symptoms common between Chikungunya and Dengue, which make Differential Diagnosis difficult.

◆ FEVER

- JOINT PAIN
- **◆** FATIGUE

◆ HEADACHE

► NAUSEA

→ RASH

- **◆** MUSCLE PAIN
- **◆** VOMITING

Current Laboratory Testing Strategy for Chikungunya

CDC Recommended*(1)

Human Infection

- Acute antibody (IgM) in serum and/or CSF.
 - IgM ELISA or Microsphere Immunoassay
 - Confirmation by PRNT
- Seroconversion in paired specimens
 - IgG ELISA and/or 4-fold rise in neutralizing antibody by PRNT
- Detection of virus and/or viral RNA in serum and/or CSF.
 - Real time RT-PCR, consensus RT-PCR, or virus isolation

*(1) Source: Laboratory Testing for Chikungunya Virus, CDC, Atlanta, USA http://new.paho.org/hq/index.php?option=com_docman&task=doc

WHO Recommended*(2)

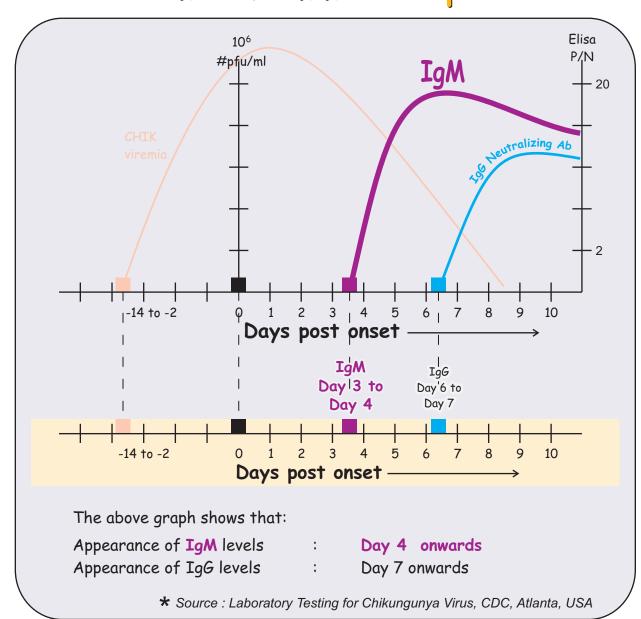
Laboratory criteria: at least one of the following tests in the acute phase:

- Virus isolation
- Presence of viral RNA by RT-PCR
- Presence of virus specific IgM antibodies in single serum sample collected in acute or convalescent stage.
- Four-fold rise of IgG titers in samples collected at least three weeks apart

*(2) Source: Proposed case definition of Chikungunya Fever(WHO, SEARO)

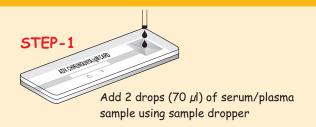
http://www.searo.who.int/LinkFiles/Chikungunya_Def_Chikungunya_Fever.pdf

Simplified Depiction of CHIK Viremia & Immune Reponse*



Check for both Chikungunya and Dengue, as they can co-exist in a patient. A simultaneous detection of Chikungunya & Dengue will give a better picture of patient's illness.

Test Procedure





Result Interpretation







Performance Characteristics

Sensitivity and Specificity studies were carried out in-house on samples, fresh as well as frozen, from low risk as well as high risk groups. Based on test panel of 2,000 plasma and serum samples, following is the sensitivity & specificity:

IGM ANTIBODY SENSITIVITY: 97.5% (i)

IGM ANTIBODY SPECIFICITY: 99.1% (ii)

This is a screening test. All samples detected reactive must be confirmed by using confirmatory test. Therefore for definitive diagnosis, the patient's clinical history, symptomatology as well as serological data, should be considered.

References

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