Serological differential diagnosis using IFA BIOCHIP technology

Clinic: fever, rash, joint pain or neurological syndrome (GBS) or traveling history to endemic areas during pregnancy

Detection of antibodies in patient serum or plasma

Arboviral Fever Mosaic 2 (IgG and IgM)

Antibodies against CHIKV

CHIKV: Chikungunya virus, DENV: Dengue virus, JEV: Japanese encephalitis virus, TBEV: Tick-borne encephalitis virus, WNV: West Nile virus, YFV: Yellow fever virus, ZIKV: Zika virus

Secondary flavivirus infection with ZIKV after:
- Infection with a different flavivirus, e.g. DENV, WNV or YFV
- Vaccination against YFV, JEV and/or TBEV

Typical antibody constellation:
- Anti-ZIKV IgG and/or IgM positive
- IgG: High-grade cross-reactivity with DENV-infected cells; sample titration allows no differentiation
- IgM: Antibodies are less cross-reactive and more specific for ZIKV infections; sample titration allows differentiation (highest titer = causative virus)

Primary flavivirus infection with ZIKV

Typical antibody constellation:
- Anti-ZIKV IgG and/or IgM positive
- No or low-grade cross-reactivity with DENV-infected cells
- Sample titration allows differentiation (highest titer = causative virus)

Be aware of cross-reactivity!

IgM antibodies
IgG antibodies
IgG antibodies
IgM antibodies

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