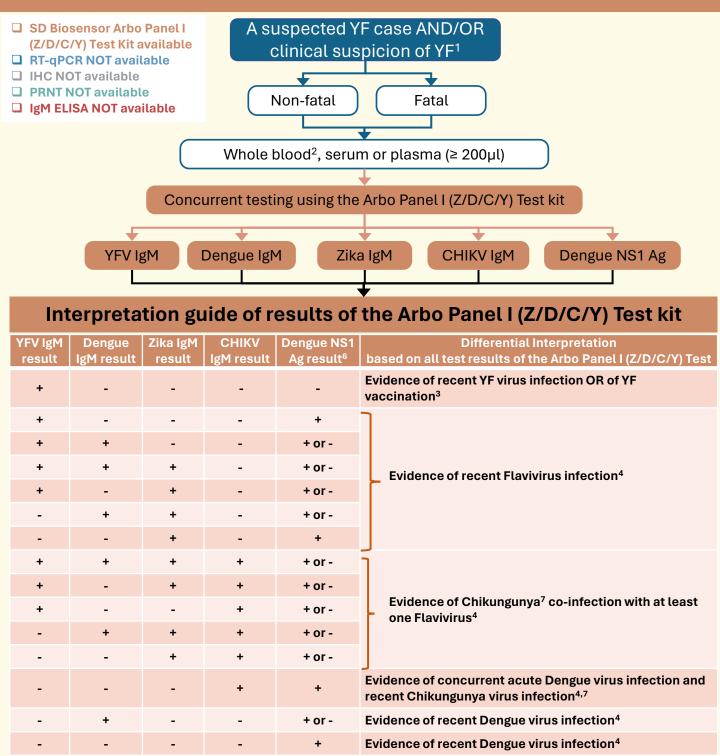
Yellow Fever **SIMPLIFIED** Testing Algorithm Using Arbo Panel kit for Countries with no access to YF RT-qPCR, YF ELISA and PRNT testing



the first symptoms. Clinical suspicion of YF may be made prior to the appearance of jaundice and is based on other clinically compatible symptoms such as fever, headache, myalgia, nausea, vomiting, and fatigue and on epidemiologic factors. Assessment of YF vaccination history, malaria testing history, travel history, and history of contact with known YF cases should be recorded and taken into consideration when interpreting test

testing within 1-2 days after collection. Do not use hemolyzed blood samples. In the event of an individual with a documented history of YF vaccination, report as: "PRESENCE OF YF IgM IN VACCINATED INDIVIDUAL. Interpret with care, considering clinical presentation & epidemiological context". Whereas in the event of an individual never vaccinated against YF or with an unknown YF vaccination history,

report as: "PRESUMPTIVE EVIDENCE OF ACUTE YF INFECTION". Final case confirmation requires plaque reduction neutralization testing (PRNT). If PRNT is not available in the region, such case could be classified as a Probable YF case in the light of the clinical presentation & epidemiological context.

Negative YF IgM result. YF infection can be excluded if the specimen was collected >7 days post symptom-onset_symptoms and/or collected

Evidence of recent Zika virus infection4

from a jaundice or haemorrhagic fever case⁵

Evidence of recent Chikungunya virus infection4,7

Including the possibility of using either capillary or venous whole blood. Collect the venous whole blood into $the \ commercially\ available\ anti-coagulant\ tube\ such\ as\ heparin,\ EDTA\ or\ sodium\ citrate\ by\ venipuncture.\ If$ venous whole blood in an anti-coagulant tube is stored in a refrigerator at 2-8°C, the specimen can be used for

Case classification should consider the epidemiologic context of co-circulation of other flaviviruses and previous vaccination of the Individual. Also, malaria and rheumatic diseases should also be considered as

there is documented cross-reactivity affecting the specificity of the IgM result.

If the specimen was collected within 7 days post onset of illness, a second sample taken ≥10 days post onset of

illness should be requested and tested again whenever possible to account for possible seroconversion. The SD Biosensor Arbo Panel I (Z/D/C/Y) Test kit also includes testing for Dengue NS1 antigen, which is optional

in the context of YF surveillance. A positive Dengue NS1 test result is an indication of an acute Dengue infection. ⁷ The result suggests a recent Chikungunya virus infection. However, the documented risk of cross-reactivity with Mayaro and O'nyong nyong virus IgM cannot be excluded and should be considered if epidemiologically relevant.