



HAV & HEV - A Life-threatening Need to Differentiate

HEPATITIS INFECTION

Hepatitis A virus (HAV) is one of the most common forms of hepatitis. This highly contagious disease is spread through contaminated food and water.

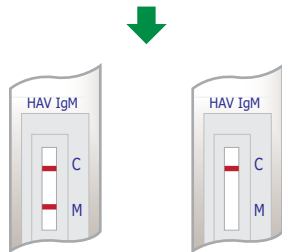
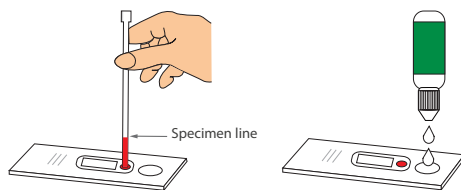
Hepatitis E virus (HEV) was identified in 1980 as a new hepatitis pathogen which is found primarily in Asia, Africa, and South America, is contracted in a similar fashion to hepatitis A with an additional possibility of zoonotic transmission.

Clinically, both diseases have similar symptoms, but HEV infection is more severe, resulting in a 1-2% death rate in adults, while HAV results in less than 0.4% mortality. In pregnant women HEV is often associated with fulminant hepatic failure often suffering a 20% elevated mortality rate due to the disease in the third trimester.

HAV&HEV RAPID TESTS BY CTK



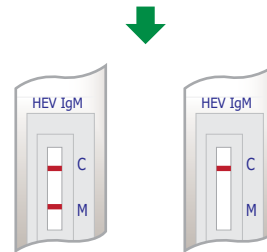
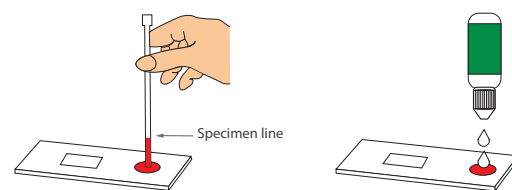
OnSite HAV IgM Rapid Test(R0090C) ^{CE}



- Detection of IgM antibodies in serum, plasma and whole blood specimen
- Comparable performance v.s. EIA: relative sensitivity: 90.6%, relative specificity: 97.6%, overall agreement: 95.4%
- 24 month shelf life at 2-30°C



OnSite HEV IgM Rapid Test(R0095C) ^{CE}



- Detection of IgM antibodies in serum and plasma specimen
- Comparable performance v.s. EIA: relative sensitivity: 98.1%, relative specificity: 99.2%, overall agreement: 98.1%
- 24 month shelf life at 2-30°C

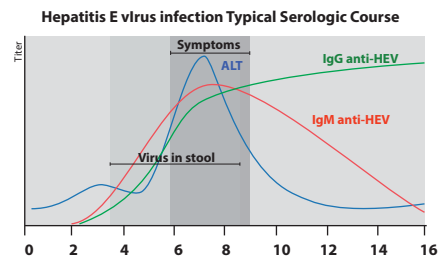
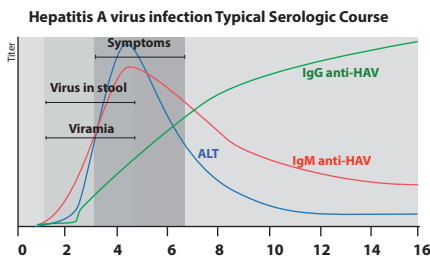


OnSite HAV+HEV Rapid Tests

HAV and HEV infection profile

Parameters	HAV infection	HEV Infection
Transmission	Oral-fecal route Contaminated food & water Direct contact with an infectious person Rarely via blood exposure	Oral-fecal route Contaminated food & water Rarely person to person transmission Possibility of zoonotic spread
Incubation Time	2 to 7 weeks, average 4 weeks	2 to 9 weeks, average 6 weeks
Demographics	Affects all age groups	Symptomatic HEV infection is most common in young adults aged 15-40 yrs A symptomatic or a typical infection seen mostly in children
Disease Course	Self limiting	Self limiting Chronic hepatitis is connected to organ transplant recipients
Mortality Rate	0.4%	1-2% in adults 20% of pregnant women in 3rd trimester
Immunity	Life-long immunity against re-infection	People may become re-infected over the course of their lives
Vaccination	Yes	No
Annual Infection	1.4 million	20 million

Serological Profile



OnSite Rapid Tests

Catalog	Product	Detection	Sample	Shelf Life
R0090C	HAV IgM Rapid Test ^{CE}	Detects only IgM	S, P, WB	24 month
R0092C	HAV IgG/IgM Rapid Test ^{CE}	Detects both IgG and IgM in one test	S, P, WB	24 month
R0095C	HEV IgM Rapid Test ^{CE}	Detects only IgM	S, P	24 month
R0096C	HEV IgG/IgM Rapid Test ^{CE} (coming soon)	Detects both IgG and IgM in one test	S, P, WB	24 month

RecombiLISA ELISA Tests

Catalog	Product	Detection	Sample	Test Time
E0100	HAV IgM ELISA ^{CE}	Qualitatively detects IgM to HAV	S, P	70 mins
E0105	HEV IgM ELISA ^{CE}	Qualitatively detects IgM to HEV	S, P	75 mins

Adaptable to fully automated ELISA systems



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