



Hepatitis C Reporting Flowchart

Acronyms

ALT – Serum Alanine Aminotransferase, also called **SGPT**
SGPT – Serum Glutamic Pyruvic Transaminase
AST – Aspartate Aminotransferase, also called **SGOT**
SGOT – Serum glutamic oxaloacetic transaminase
Anti-HCV – Antibodies to Hepatitis C Virus
EIA – Enzyme Immunoassay
HCV – Hepatitis C Virus
HCV-RNA – Hepatitis C Virus Ribonucleic Acid (genetic material)
IU/L – International Units per Liter
IgM Anti-HAV – IgM Antibody to Hepatitis A Virus
IgM Anti-HBc – IgM Antibody to Hepatitis B Core Antigen
NAT – Nucleic Acid Test
PCR – Polymerase Chain Reaction
RIBA – Recombinant Immunoblot Assay

Clarification

ALT/SGPT and AST/SGOT levels: Enzymes produced by the liver that when elevated indicates liver damage. AST/SGOT results are not part of the hepatitis C case definitions.

Jaundice: condition in which the whites of the eyes go yellow and in more severe cases the skin also turns yellow; caused by the yellow pigment, bilirubin that is normally disposed of by the liver; often a symptom of viral hepatitis infection.

Signal to cut-off ratio predictive of a true positive: Signal-to-cut-off ratios are calculated by dividing the optical density (OD) value of the sample being tested by the OD value of the assay cut-off for that run. A specific s/co ratio can be identified for each test that would predict a true antibody-positive result (as defined by the results of supplemental testing) $\geq 95\%$ of the time, regardless of the anti-HCV prevalence or characteristics of the population being tested. Synonymous phrases include “high signal to cut-off ratio” and “serum to cut-off”. The chart below, provided by the CDC, describes the signal-to-cut off ratio of some commercially available assays.

Screening test kit	Signal-to-cut-off ratio predictive of a true positive $\geq 95\%$ of the time
Ortho HCV Version 3.0 ELISA Test System	3.8
Abbott HCV EIA 2.0	3.8
Ortho Vitros Anti-HCV Assay	8.0
Abbott AxSYM Antibody to HCV	10.0
Bayer Advia Centaur HCV Assay	Not Yet Available