

## Reference

1. CDC Viral Hepatitis: <https://www.cdc.gov/hepatitis/hcv>
2. Consult: Hepatitis C Virus Testing Algorithm <https://arupconsult.com/algorithm/hepatitis-c-virus-testing-algorithm>

# Hepatitis C



testing at ARUP Laboratories



[www.aruplab.com/  
topics/liver](http://www.aruplab.com/topics/liver)



[www.aruplab.com](http://www.aruplab.com)

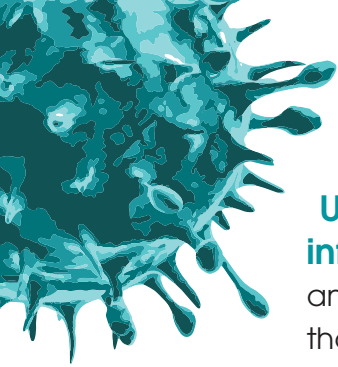
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keyword: HEPC

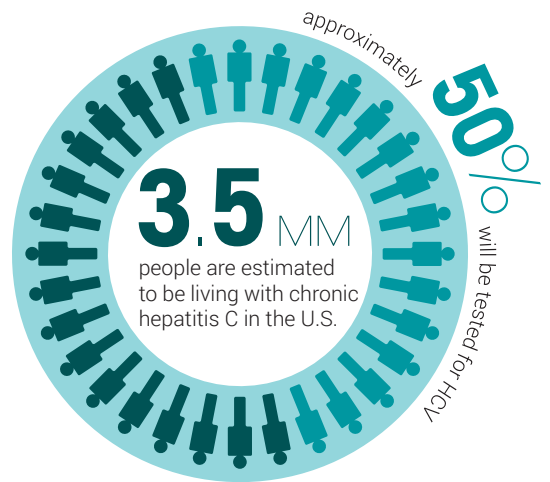
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**An estimated 3.5 million persons in the United States are infected with HCV,** and as many as half of those infected remain undiagnosed. HCV is the primary cause of adult liver transplant candidacy, representing 30 percent of all adults on the transplant waiting list. Baby boomers (those born between 1945 and 1965) account for 75 percent of all chronic HCV infections.



### Testing Recommendations

Hepatitis C virus (HCV) is a virally mediated disease of the liver with a propensity to cause chronic infection, leading to cirrhosis and an increased risk of hepatocellular carcinoma. Adults born between 1945 and 1965 should be screened for HCV infection; individuals with certain risk behaviors (e.g., injection drug use) or risk exposures (e.g., healthcare workers) should also be screened. Laboratory testing involves screening for HCV antibodies followed by confirmatory RNA testing for positive results.

### Laboratory Testing

ARUP has designed testing methods that are economical, reduce turnaround time, and help avoid multiple patient draws/visits. Each test can be ordered individually or as part of the reflexive tests to meet our clients' various testing requirements.

- HCV antibody screen by immunoassay:** initial testing for individuals at risk for HCV infection
- HCV quantification by TMA if reactive:** used to confirm active HCV infection, establish baseline viral load for prognosis and to monitor response to therapy.
- HCV genotype by sequencing:** guide selection of direct acting antiviral (DAA) therapy.

### Reflex Testing

| test code | test name  |
|-----------|--|
| 2010784   | Hepatitis C Virus Antibody by CIA with Reflex to HCV by Quantitative NAAT                              |
| 3000576   | Hepatitis C Virus (HCV) by Quantitative NAAT with Reflex to HCV Genotype by Sequencing                 |
| 3000577   | Hepatitis C Virus (HCV) by Quantitative NAAT with Reflex to HCV High-Resolution Genotype by Sequencing |
| 2009255   | Hepatitis C Virus (HCV) Genotype with Reflex to HCV High-Resolution Genotype by Sequencing             |
| 2014598   | Hepatitis C Virus (HCV) Genotype with Reflex to HCV NS5A Drug Resistance by Sequencing                 |

### Additional Testing Options

| test code | test name  | method                   |
|-----------|--|--------------------------|
| 2002483   | Hepatitis C Virus Antibody by CIA  | Qualitative              |
| 3000572   | Hepatitis C Virus (HCV) by Quantitative NAAT   | Quantitative NAAT        |
| 0055593   | Hepatitis C Virus Genotype by Sequencing   | Sequencing               |
| 2006898   | Hepatitis C Virus High-Resolution Genotype by Sequencing   | Sequencing               |
| 2014139   | Hepatitis C Virus (HCV) NS5A Drug Resistance by Sequencing   | Sequencing               |
| 2004680   | Interleukin 28 B ( <i>IL28B</i> )-Associated Variants, 2 SNPs  | PCR/high-resolution melt |
| 2006344   | Inosine Triphosphatase ( <i>ITPA</i> ) and Interleukin 28 B ( <i>IL28B</i> )-Associated Variants, 4 SNPs | PCR/SNE                  |

### Reflex Testing Options

