

# Increasing Vaccination, Testing, and Treatment for Viral Hepatitis B in Underserved Populations

## PURPOSE

To advance the delivery of recommended testing, care, and treatment for Hepatitis B virus (HBV) and support implementation of the National Viral Hepatitis Action Plan (2017-2020) in health centers.

## BACKGROUND

Hepatitis B virus can be effectively managed through treatment and regular monitoring by a health care provider. Populations who receive health care services at health centers are at a higher risk of HBV infection and its associated sequelae compared to the general population, and increased efforts to identify and link HBV infected health center patients to care are needed. Optimizing delivery of recommended HBV testing, care, and treatment in large networks of health centers could help reduce the substantial burden of HBV in health center populations while controlling costs. Additionally, there is a lack of public health data describing the HBV care continuum in high-risk populations. Monitoring the HBV care continuum in health centers from a population perspective will assist in identifying gaps that can be addressed to bring more infected persons into care.

## GOAL

Develop a HBV care continuum, develop an electronic health record-agnostic data model to track each step in the HBV care continuum, and advise on how clinical and HIT workflows can be utilized to collect the necessary data.

## POPULATION OF FOCUS

Individuals at risk for HBV due to current or former injection drug use, end stage renal disease, diagnosis of Hepatitis C virus, pregnancy, and diagnosis of HIV, and people from sub-Saharan Africa.

## APPROACH

Through a collaborative model with public health, health center controlled networks (HCCN), health centers, high-risk population experts, and informatics experts:

- Initial data run to inform goal
- Confirm the HBV continuum with existing data sets; develop an electronic health record-agnostic data model to track each step in the HBV care continuum; and validate all data elements in the data model
- Configure reporting systems with algorithm criteria and develop measure specifications to run baseline report
- Build HBV screening algorithm into health centers' clinical systems for population management, pre-visit planning, and decision support to improve detection of high risk patients



**TIMELINE | 1/1/2019 – 7/31/2019**



**FUNDING | CDC**



**TYPE OF INTERVENTION**

HIT-enabled Quality Improvement, Analytics and Reporting, Value-set Validation

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- Learning community: monthly web-based check-ins with expert faculty and peer learning
- Quality Improvement Coaching/Practice Facilitation
- Pre/post project and monthly data reporting
- In-person Harvest Meeting

## MEASURES

There are no active value sets; value sets will be developed and tested during the project.

## COLLABORATORS

<b>CDC</b>	Project Officer. Financial and technical support.
<b>NACHC</b>	Establish national leadership role around HBV for HCCNs and health centers. Project design, support, and management. Accelerate learning among participating health centers through sharing of best practices, challenges, lessons learned, shared program metrics and tools, and workflow mapping and analysis.
<b>Alliance Chicago</b>	National HCCN leader serving 32 health centers in 19 states using a common electronic health record system with uniform data definitions and capture methods. Provide informatics expertise on HBV, SNOMED/CPT codes, value sets, workflow, and data analysis.
<b>AAPCHO</b>	National organization representing community health organizations that serve medically underserved Asian American, Native Hawaiian, and Pacific Islander populations. Broker relationships with health centers that have high incidence of HBV to validate HBV data model. Developing the validation tool.
<b>HCCN</b>	Identify health centers with high incidence of HBV. Provide health information technology-specific training, technical assistance, and implementation support to health centers, and report aggregated results from data warehouse. Participate in learning community.
<b>Health Center</b>	Partner with associated HCCN to test and validate a new HBV data model and value set for the HBV care continuum.