Progress Toward Prevention of Transfusion-Transmitted Hepatitis B and Hepatitis C Infection—Haiti, 2005—2014

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Selected basic indicators, Haiti 2001-2016

- Population 2016 (millions): 10.7
- Poverty rate (%) 2016: 58.6
- Life expectancy at birth (years) 2011: 62.2
- Infant mortality rate (per 1,000 live births) (2006): 57.0
- Births attended by trained personnel (%) (2008): 25.0

Sources:
- http://www.who.int/gho/countries/hti/country_profile/en
- cdc.gov/globalhealth/countries/Haiti
- population Reference Bureau 2014
Background

- World Health Organization has called for the global elimination of viral hepatitis (VH) by 2030
- Data on VH prevalence are limited in Haiti
- Epidemiology is poorly described
- Descriptive analysis of Hepatitis B virus and Hepatitis C virus seroprevalence among blood donors in Haiti
Methods

- Review of Haiti’s National Blood Safety Program and Haitian Red Cross reports from 2005 to 2014

- Donor serum samples screening test results:
  - HBV was screened for hepatitis B surface antigen and HCV using ELISA
  - Quality Control

- Cox Proportional Hazard regression models to estimate Prevalence Ratios:
  - Comparisons – 2005 - 2010 - 2014
Results

- 198,758 donor samples were screened in Haiti:
  - 3.80% were positive for HBV and
  - 0.56% for HCV
Results (Cont.)

Annual and regional:

• Seroprevalence of HBV remained variable across the regions and the years and

• HCV significantly increased in the Northern region from 2010 to 2014
Conclusions

- **HBV seroprevalence:**
  - Intermediate endemicity for chronic HBV infection
  - Decrease among blood donors may represent the positive impact of public health interventions in preventing the transmission of blood borne infections

- **HCV seroprevalence:**
  - Low endemicity for chronic HCV infection
  - Increase may indicate possible health care–associated infections or unsafe injection practices

- **Further investigations are needed**
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Thank you!

Questions?
Comments?

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