

Chronic Hepatitis B Prevalence
Estimate
New York City
2016

Viral Hepatitis Program

New York City Department of Health and Mental Hygiene



Chronic Hepatitis B Prevalence, NYC 2016

230,000

People living with hepatitis B in NYC as of 2016

(95% confidence limits: 186,474 – 304,191)

2.7% of NYC residents

Includes people with diagnosed and undiagnosed infection

Diagnosed and Undiagnosed Hepatitis B

124,000 people with diagnosed hepatitis B in NYC

1.5% of New York City residents

106,000 people with undiagnosed hepatitis B:

46% of all New Yorkers with hepatitis B

Hepatitis B Prevalence Among Immigrants

215,000

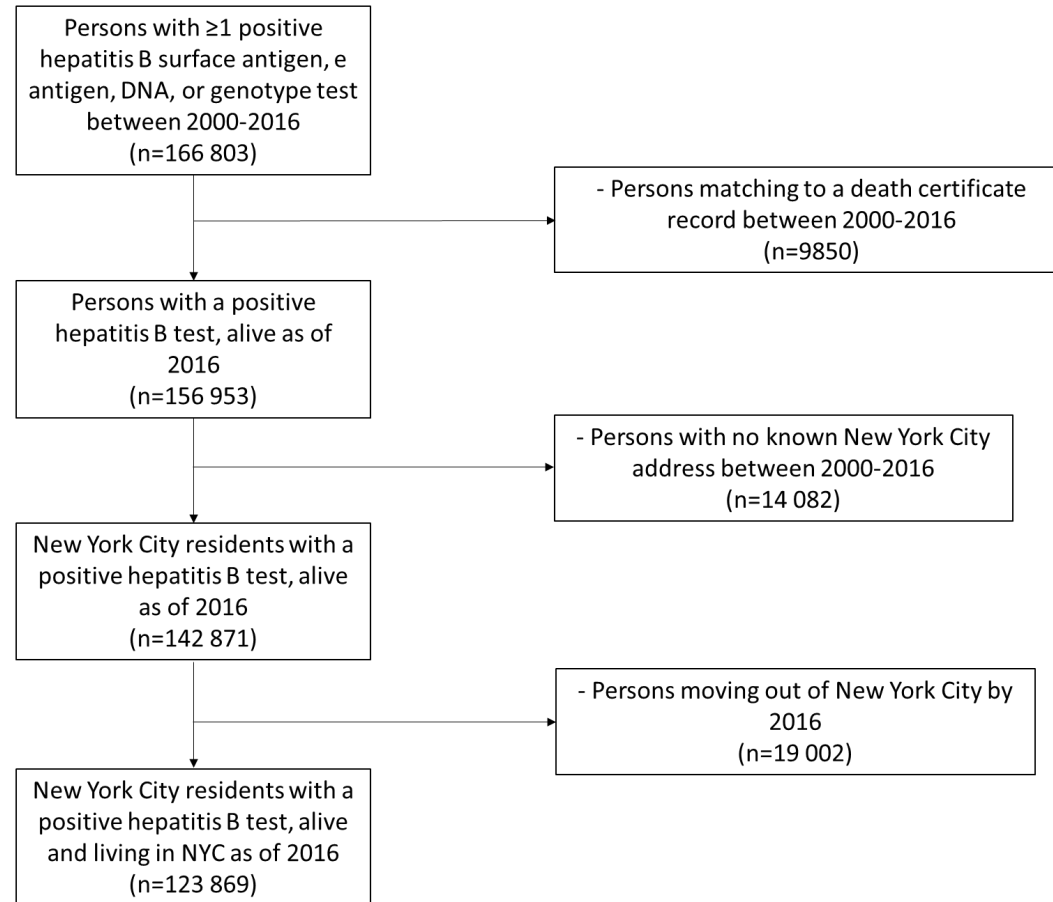
people with hepatitis B believed to be born outside the US

6.7% of non-US born New Yorkers

Data Sources for Prevalence Estimate

- **Surveillance data:** number of people with diagnosed hepatitis B (anyone with a positive HBsAg, eAg, DNA, or genotype test)
- **Vital Statistics:** number of people with hepatitis B who died
- **IRS tax return data:** estimated number of people who moved out of NYC since their last positive hepatitis B test
- **Health Department enhanced surveillance investigations:** percentage of people with diagnosed hepatitis B born in different countries/regions
- **Literature review:** percentage of people with hepatitis B that are undiagnosed (stratified by birth regions: Asia, Africa, elsewhere)

Estimated Number of People with Diagnosed Hepatitis B



Estimated Percent of People with Undiagnosed Hepatitis B

Region of birth	Percentage of population who are undiagnosed*	Percentage of diagnosed population in NYC†	Weighted percentage undiagnosed‡
Asia/Pacific Islands	34.9	79.0	22.9
Africa	46.2	4.3	2.0
Other	70.1	16.7	21.1

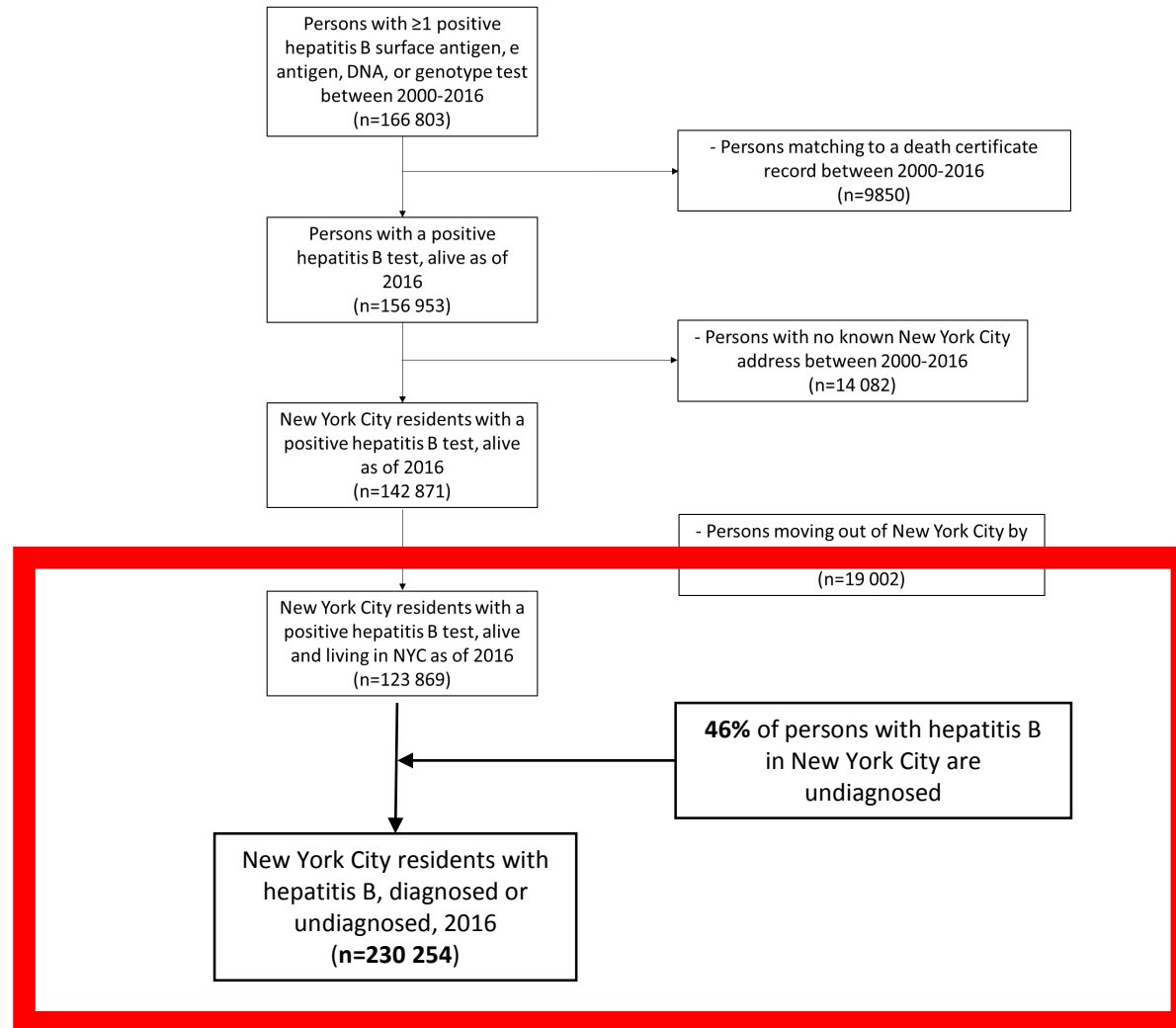
* Percentage estimates identified from the literature:

1. Asia/Pacific Islands- *Centers for Disease Control and Prevention (CDC). Screening for chronic hepatitis B among Asian/Pacific Islander populations--New York City, 2005. MMWR Morb Mortal Wkly Rep. 2006 May 12;55(18):505-9.*¹²
2. Africa- *Shah SA, Chen K, Marneni S, Benchekroune G, Ariganjoye R, Purswani M, et al. Hepatitis B awareness and knowledge in hepatitis B surface antigen-positive parturient immigrant women from West Africa in the Bronx, New York. J Immigr Minor Health. 2015 Feb;17(1):302-5.*¹⁴
3. Other- *Kim HS, Rotundo L, Yang JD, Kim D, Kothari N, Feurdean M, et al. Racial/ethnic disparities in the prevalence and awareness of Hepatitis B virus infection and immunity in the United States. J Viral Hepat. 2017 Nov;24(11):1052-1066.*⁵

† Percentage of diagnosed population by region of birth calculated from self-reported country of birth by participants in 2008 and 2015 New York City Department of Health and Mental Hygiene enhanced surveillance investigations.

‡ Weighted percentages are derived from the inputs of the previous two columns and equation presented in the methods section.

Total Number of People with Chronic Hepatitis B



Prevalence Estimate is “In Press”

- Accepted for publication in Public Health Reports
- Anticipated publication December 2019

Thank You

Miranda Moore mmoore3@health.nyc.gov

Angelica Bocour abocour@health.nyc.gov

Ann Winters awinters@health.nyc.gov