

# HEPATITIS C CURRICULUM

## Hepatitis C Incidence and Prevalence in the U.S.

David Spach, MD  
Professor of Medicine  
Division of Infectious Diseases  
University of Washington School of Medicine

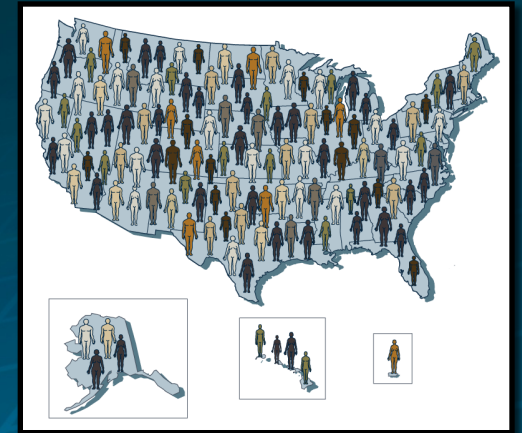
Last Updated: November 5, 2012

# Disclosure Information

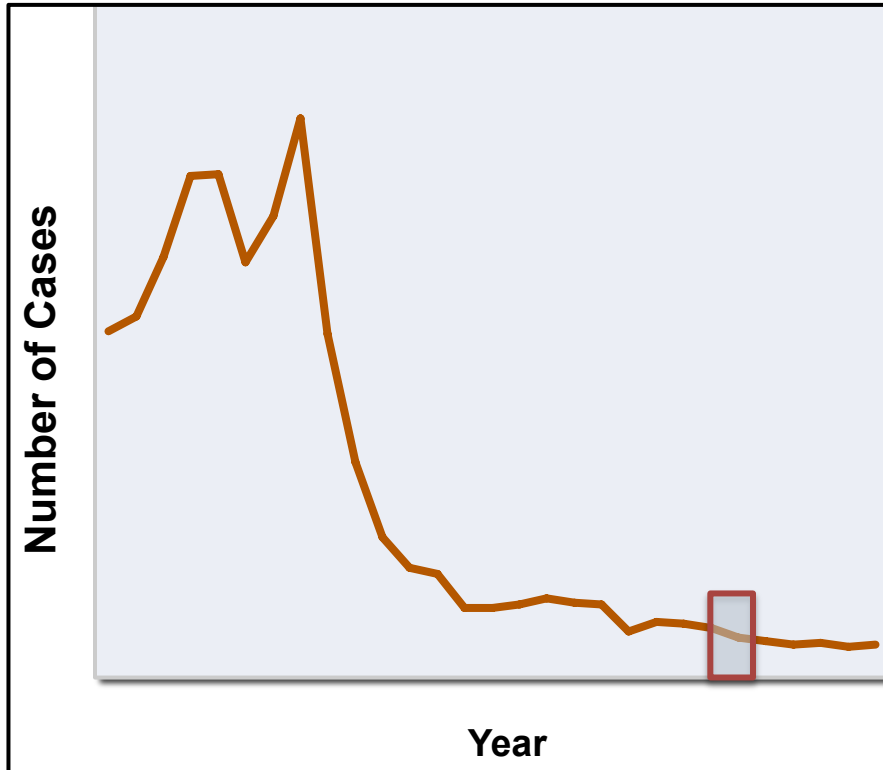
- No disclosures to report

# Hepatitis C Incidence and Prevalence in the US: Outline

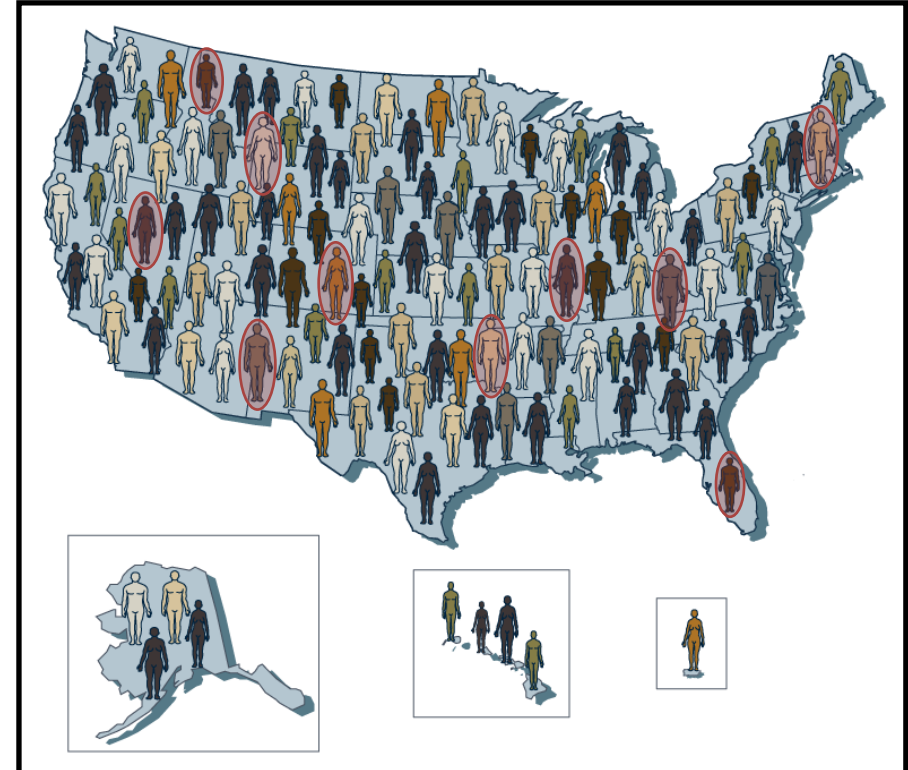
- HCV Incidence
- HCV Prevalence
- Awareness of Hepatitis C Infection



# Hepatitis C Incidence and Prevalence



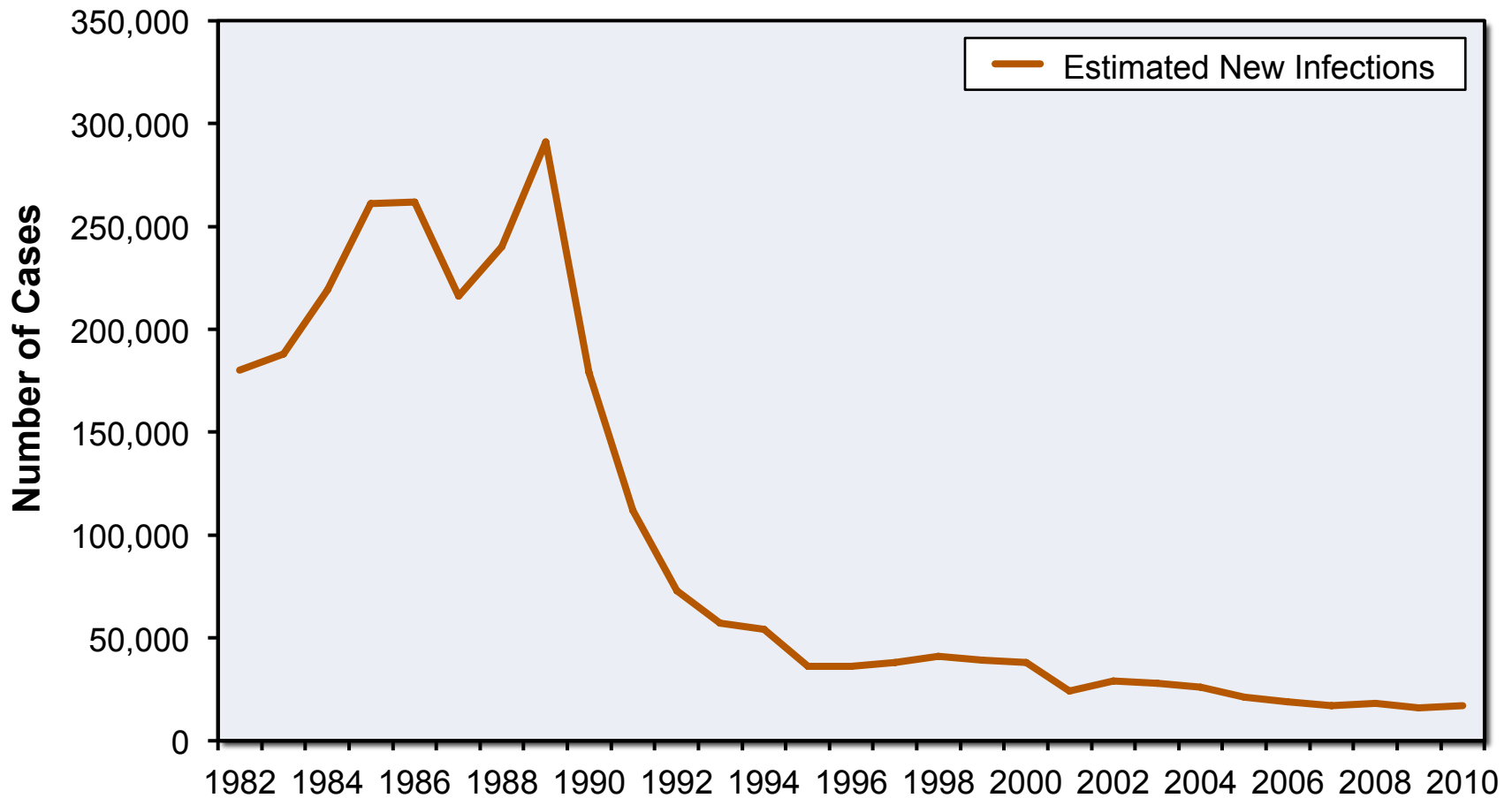
**HCV Incidence.** The number of people who become newly infected with HCV in a defined time period.



**HCV Prevalence.** The number of people living with HCV in a population at a point in time.

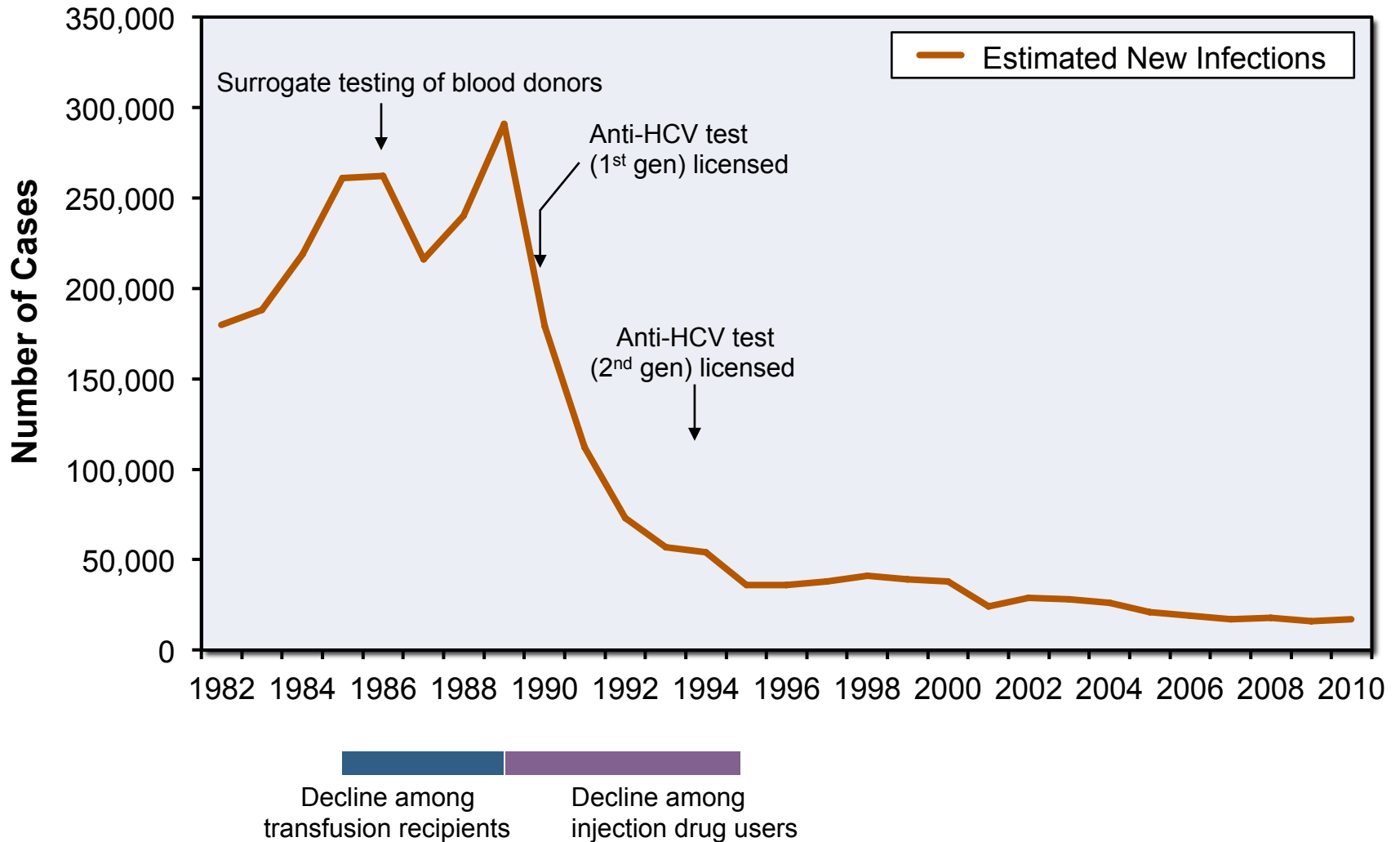
# HCV Incidence in the United States

# Hepatitis C Incidence in United States, 1982-2010



Source: CDC Division of Viral Hepatitis. Statistics and Surveillance.

# Hepatitis C Incidence in United States, 1982-2010

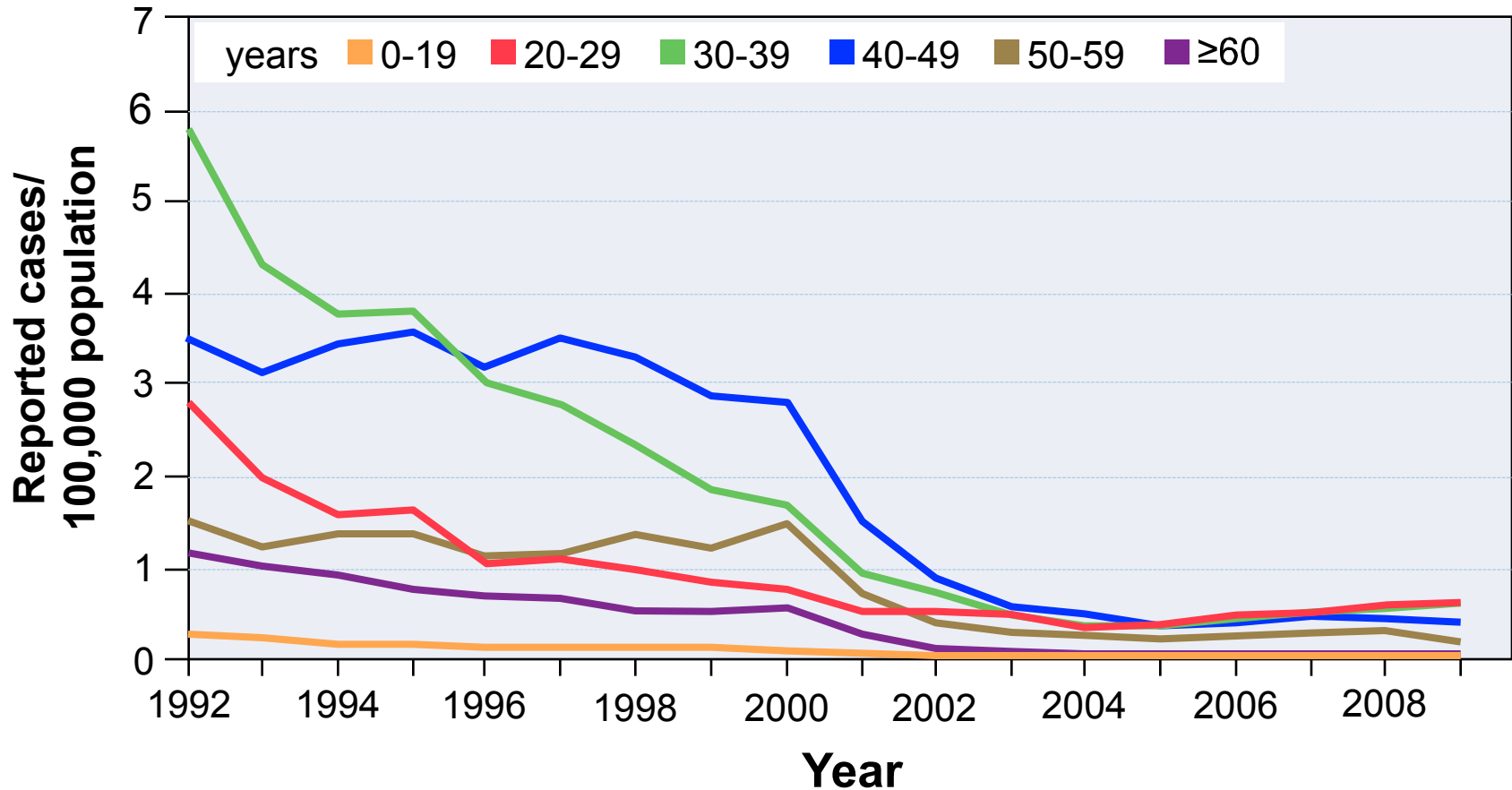


# New Hepatitis C Infections in the United States

Incidence of New Hepatitis C Infections									
Type of Cases	Year								
	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>Acute Clinical Cases Reported</b>	1,223	891	758	694	802	849	878	781	853
<b>Estimated Number of Acute Clinical Cases</b>	4,800	4,500	4,200	3,400	3,200	2,800	2,900	2,600	2,800
<b>Estimated Number of New Infections</b>	29,000	28,000	26,000	21,000	19,000	17,000	18,000	16,000	17,000

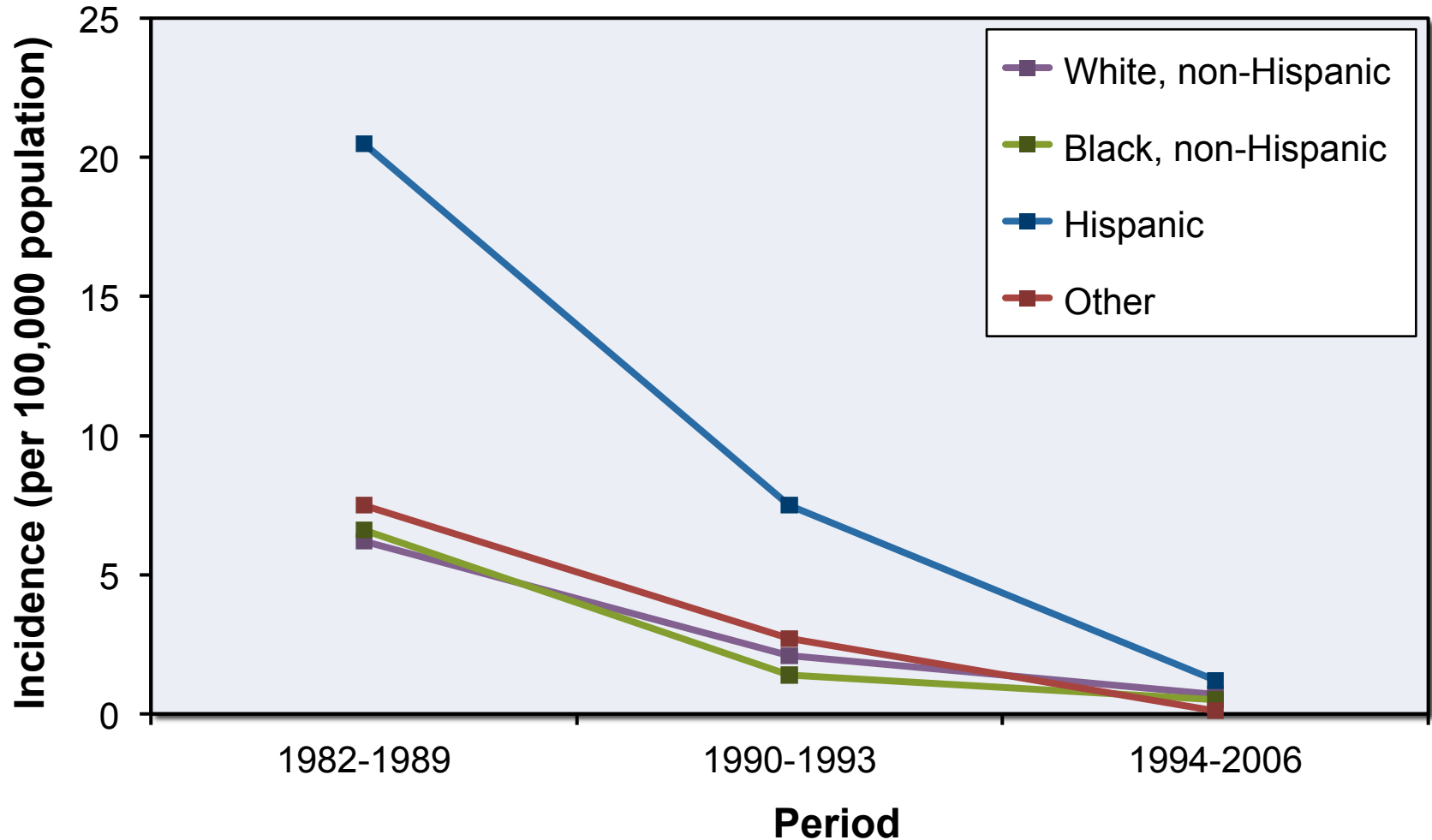
Source: CDC. Division of Viral Hepatitis-Statistic and Surveillance.

# Acute Hepatitis C Incidence by Age Group, United States, 1992-2009



# Sentinel Counties Surveillance Project, 1982-2006

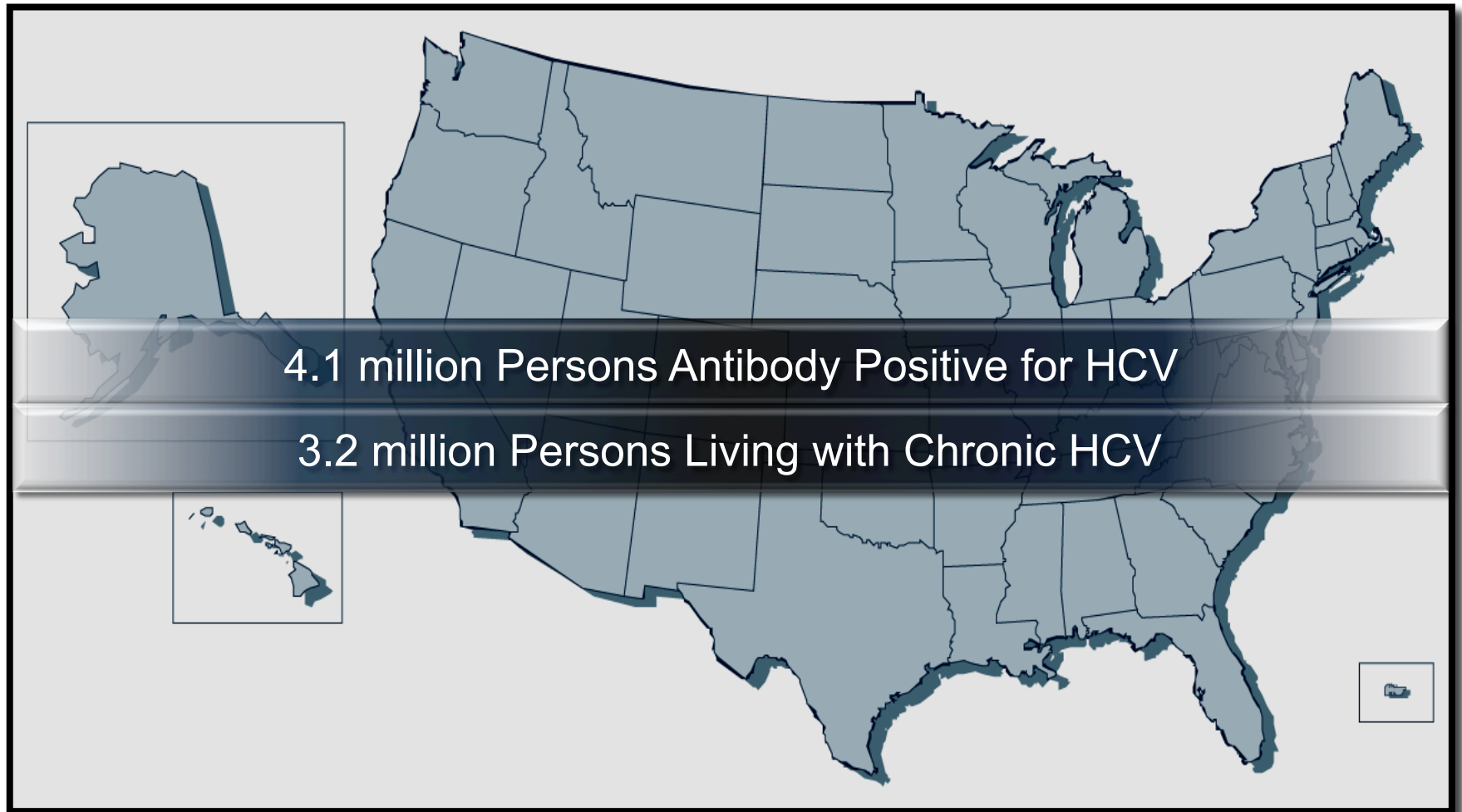
## Acute Hepatitis C Incidence (per 100,000 Population) by Race



# HCV Prevalence in the United States

# NHANES Survey

## Estimated Prevalence of Hepatitis C in U.S.

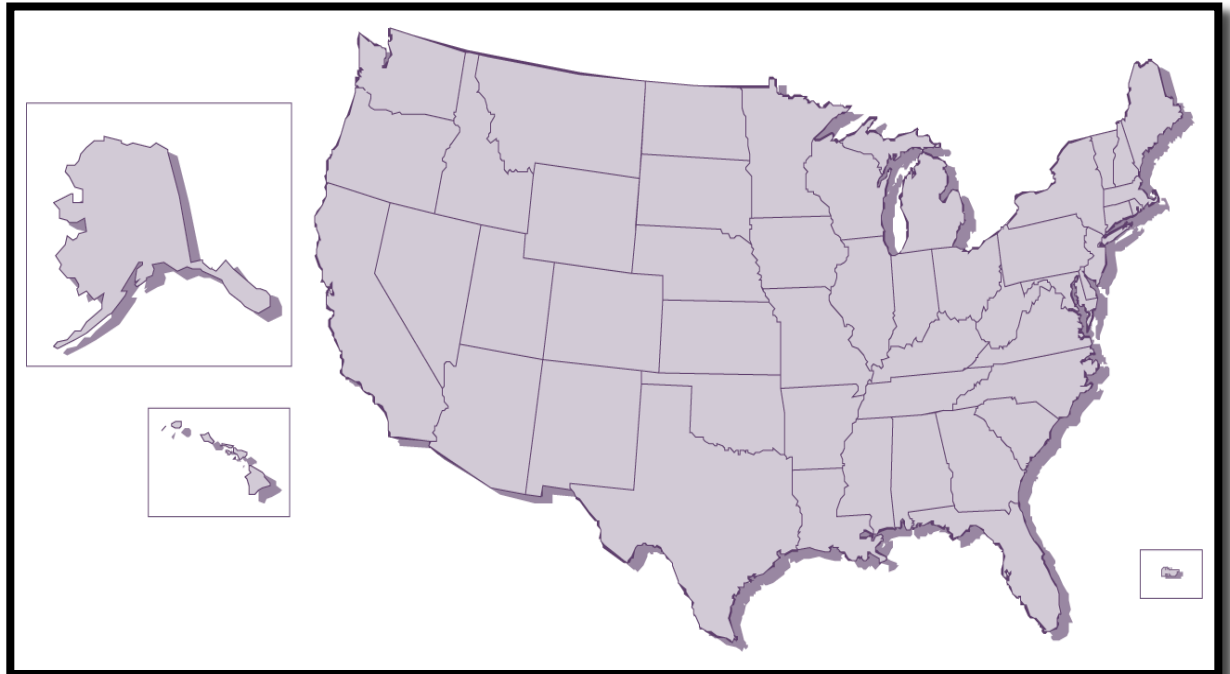


# Expanded Estimate of HCV Prevalence

## Estimated Number of anti-HCV Positive Persons in U.S

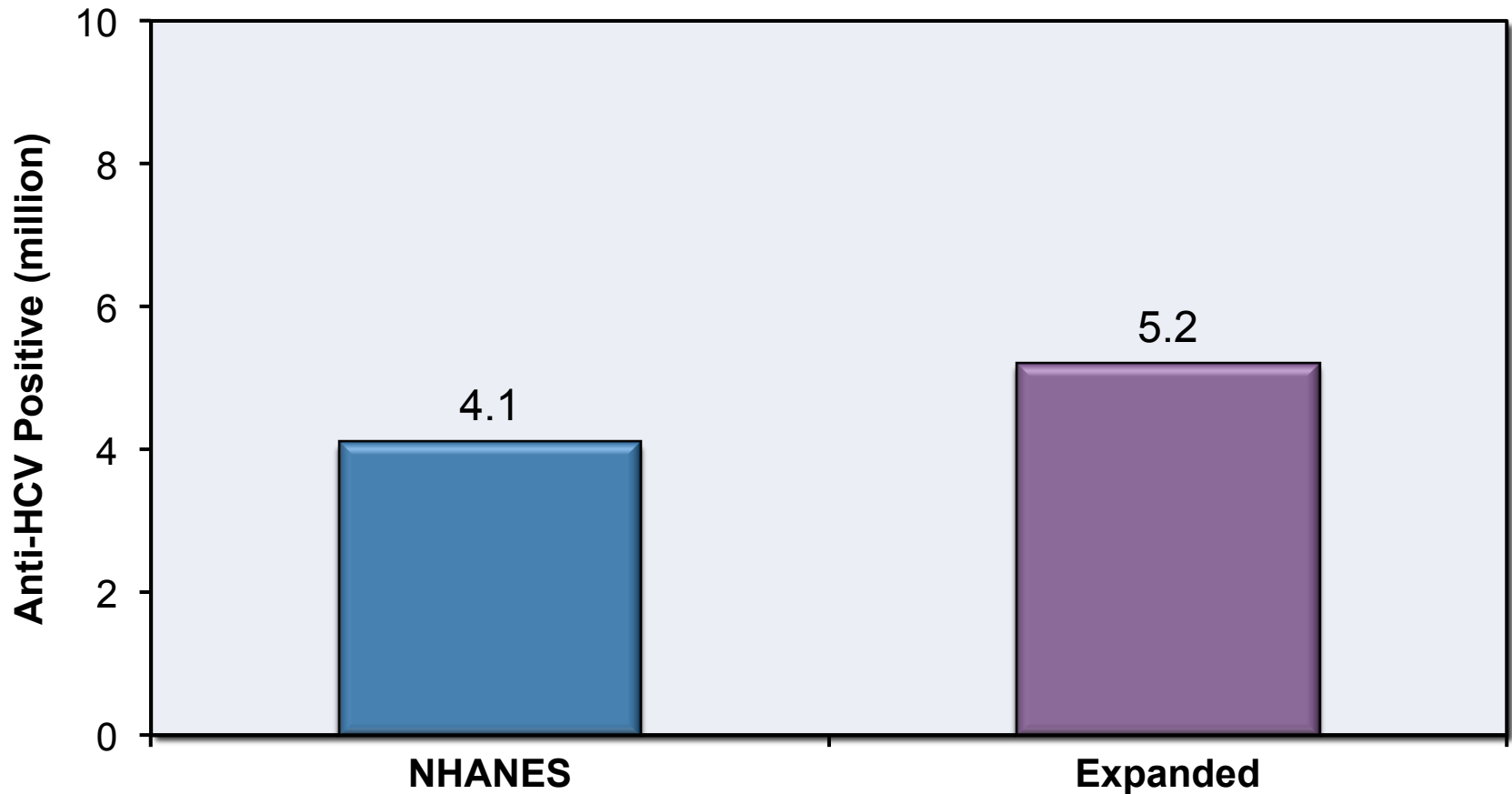
### HCV Prevalence Estimate: Expansion of NHANES Survey

- Addition of Groups
  - Incarcerated
  - Homeless
  - Nursing Home Residents
  - Hospitalized Persons
  - Active Military Duty
- Recalculation of Groups
  - Healthcare Workers
  - Chronic Hemodialysis
  - Veterans

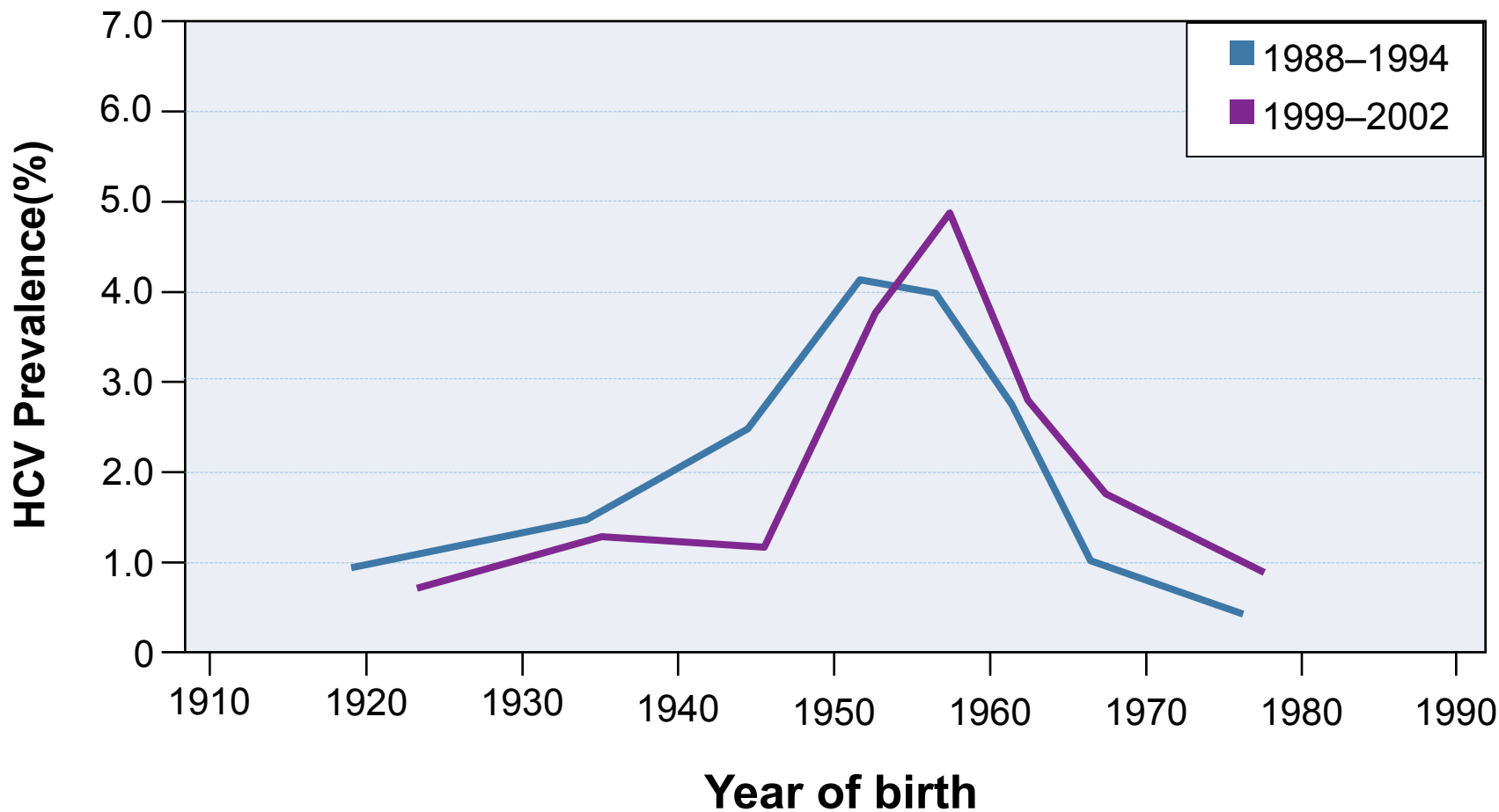


5.2 million Antibody Positive for HCV

# NHANES Survey and Expanded Prevalence Estimated Number of anti-HCV Positive Persons in U.S



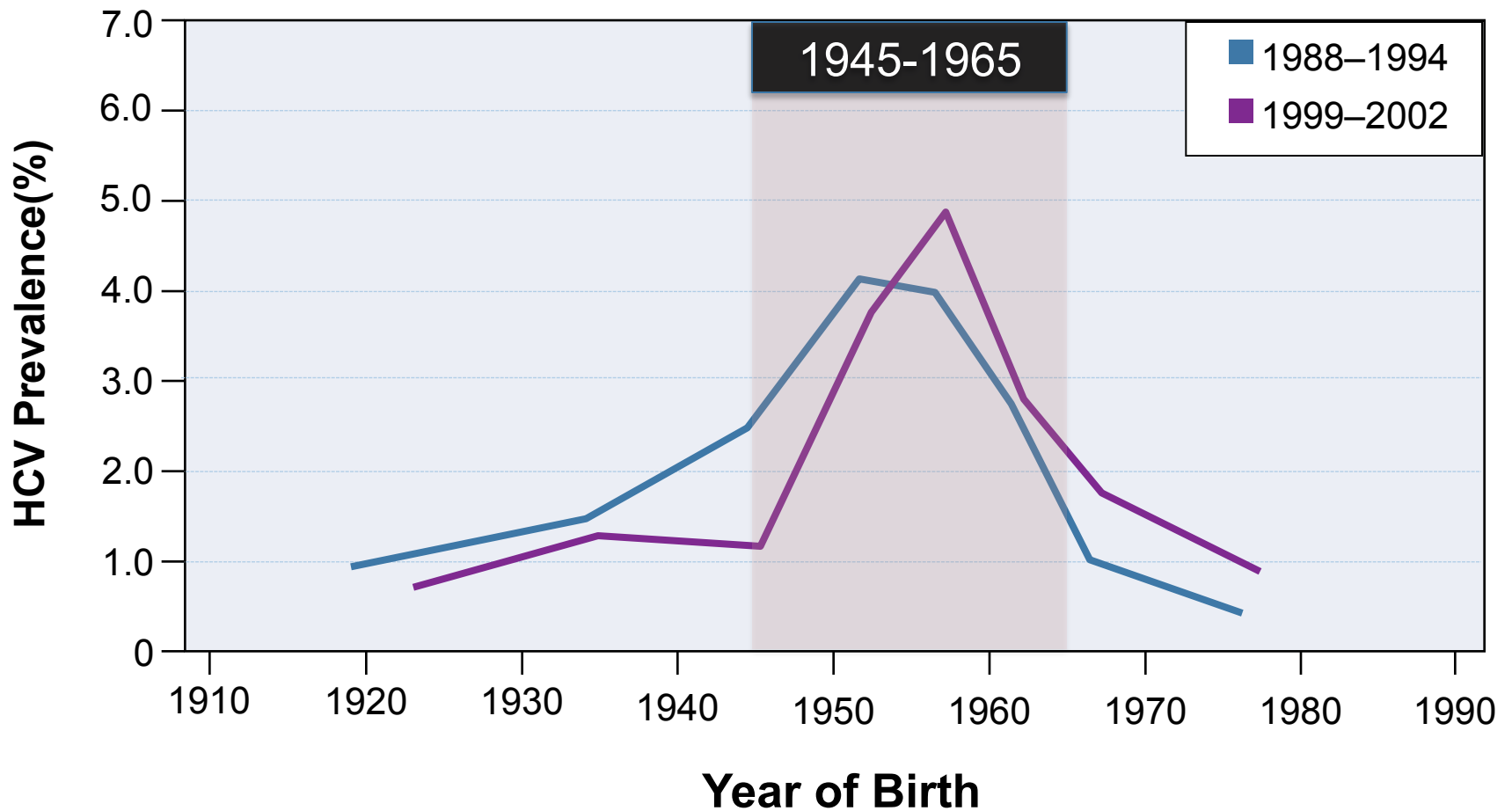
# NHANES Survey: United States, 1988-1994 and 1999-2002 Prevalence of HCV Antibody, by Year of Birth



Source: Armstrong GL, et al. Ann Intern Med. 2006;144:705-14.

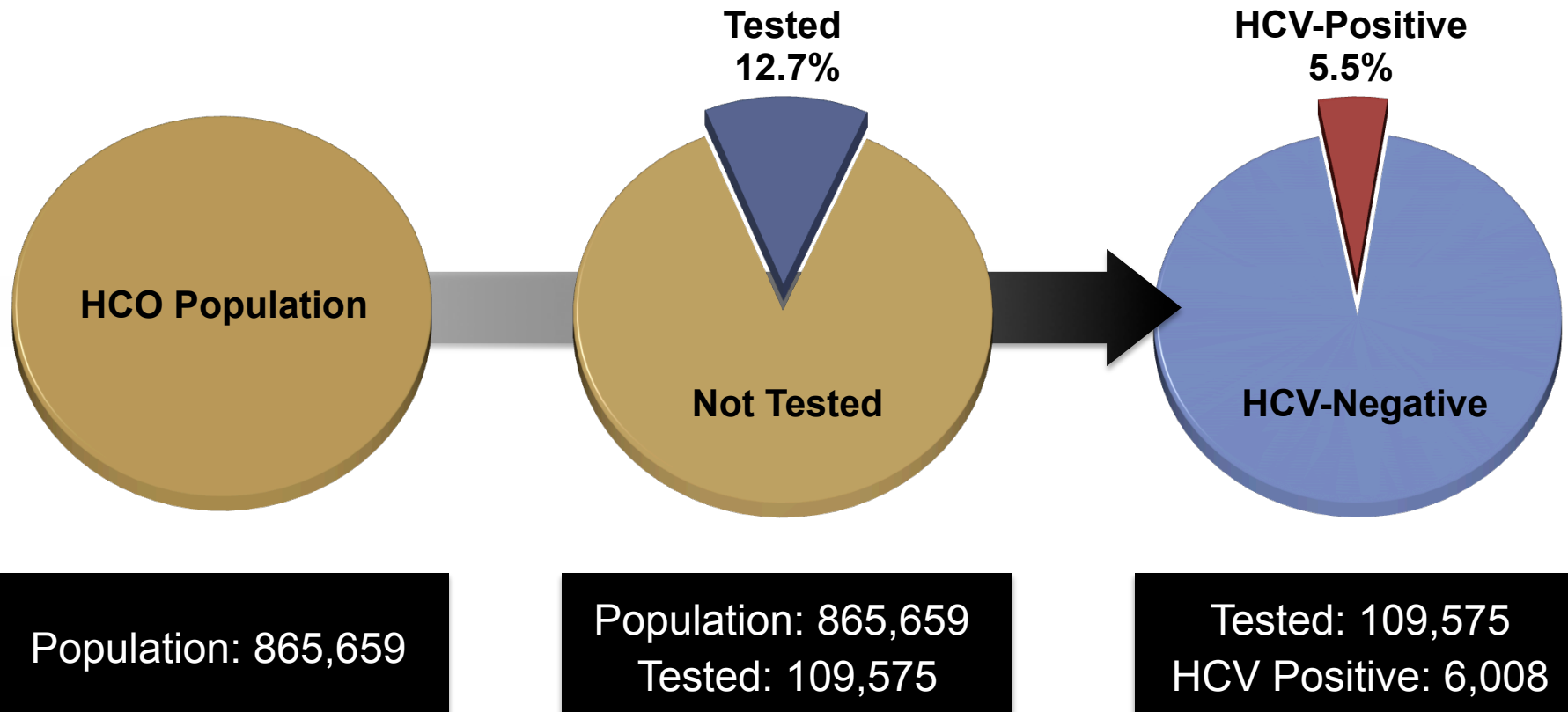
# NHANES Survey: United States, 1988-1994 and 1999-2002

## Prevalence of HCV Antibody, by Year of Birth

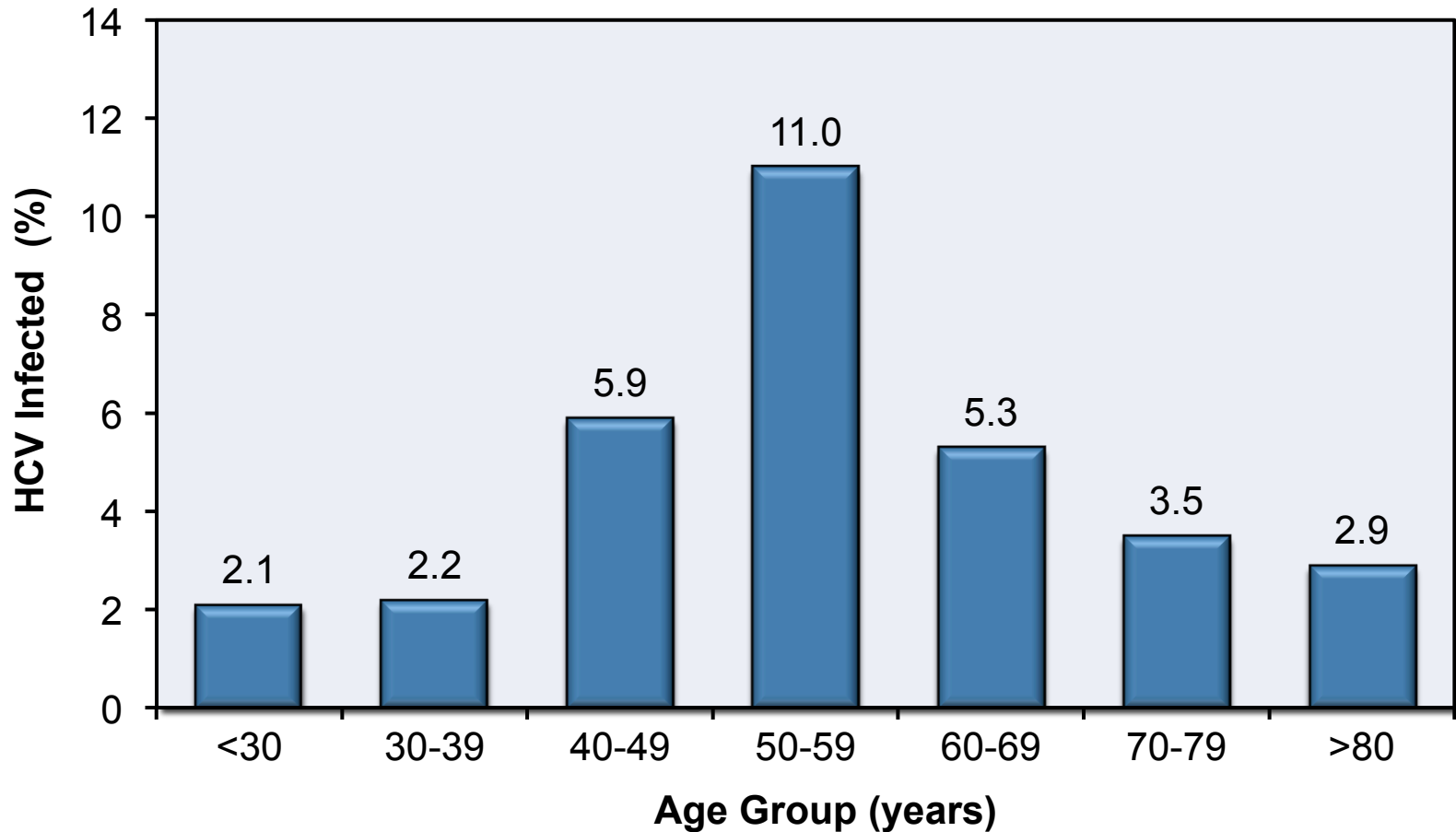


Source: Armstrong GL, et al. Ann Intern Med. 2006;144:705-14.

# Private Health Care Organizations , U.S, 2006-2008 HCV Infection (Antibody Test or HCV RNA)

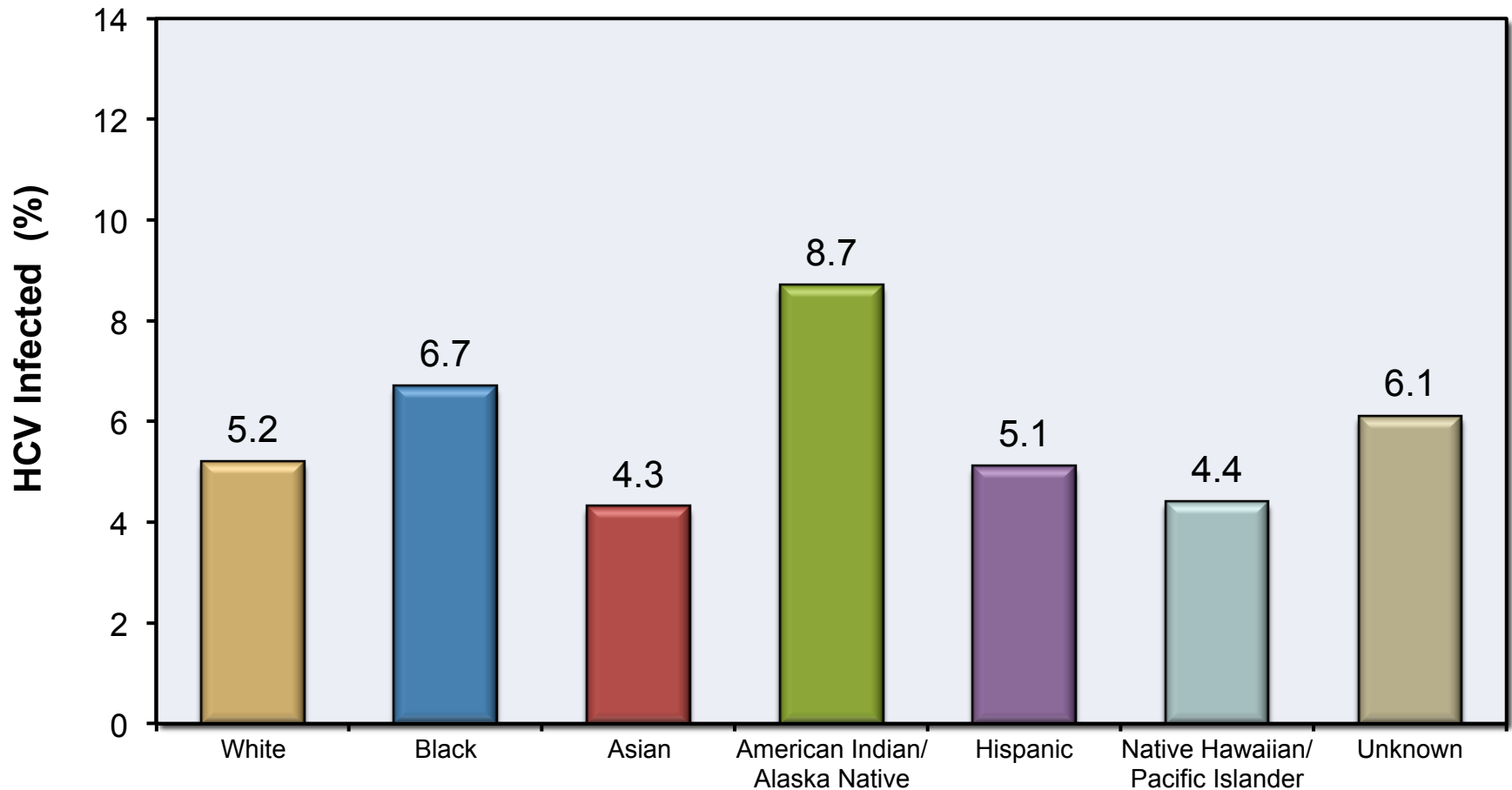


# Private Health Care Organizations, United States, 2006-2008 HCV Infection by Age Group



HCV infection defined as either positive anti-HCV or HCV RNA

# Private Health Care Organizations, United States, 2006-2008 HCV Infection by Race

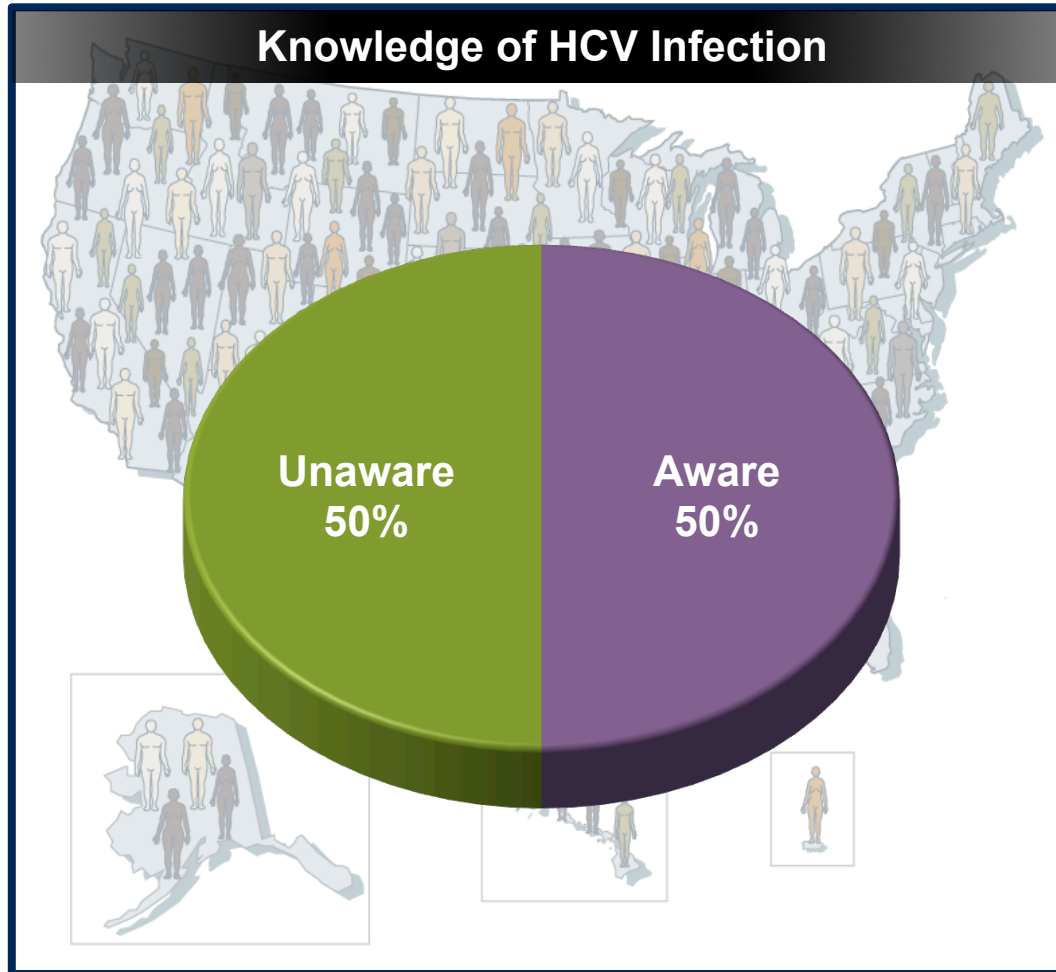


HCV infection defined as either positive anti-HCV or HCV RNA

# Awareness of HCV Infection States

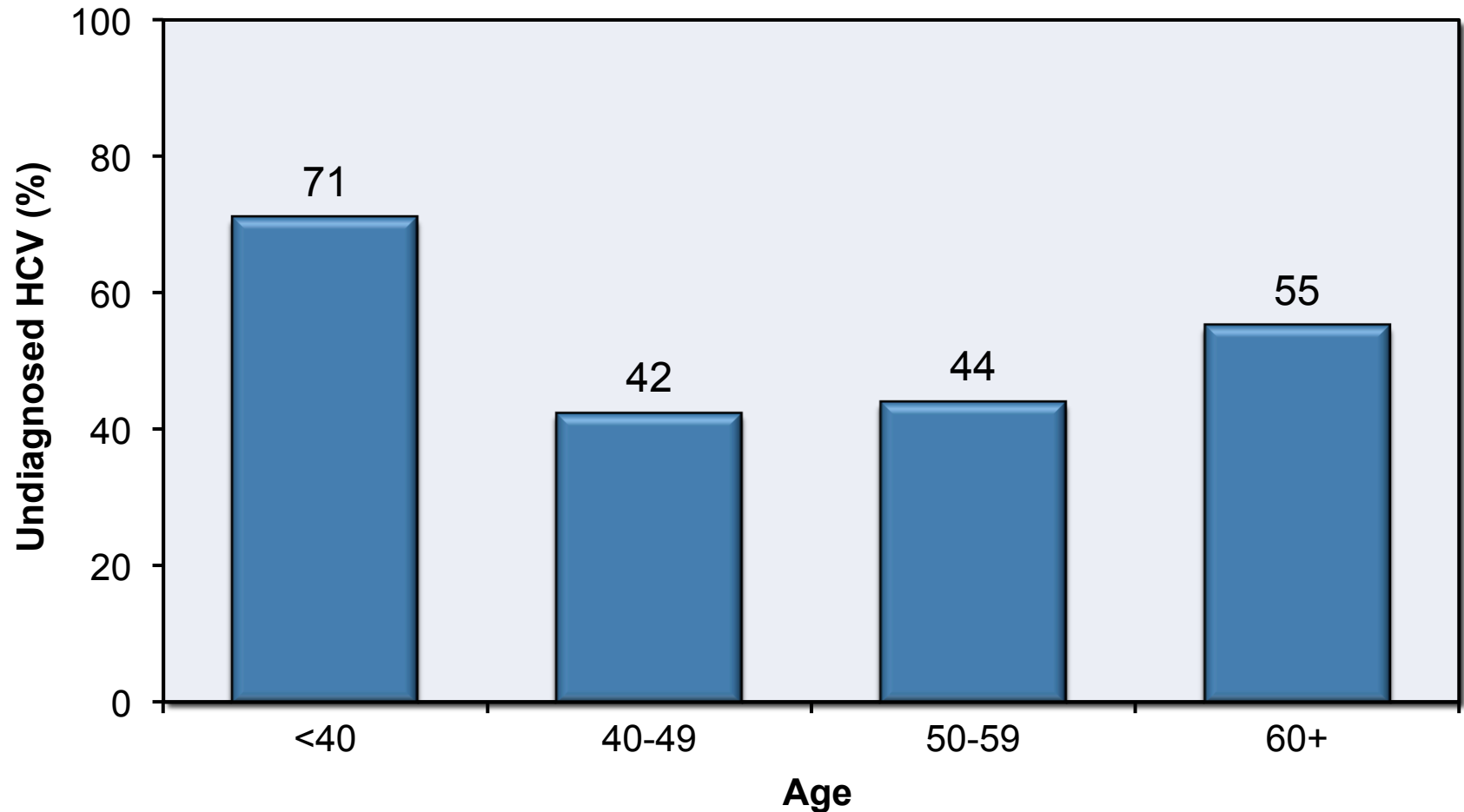
# NHANES Survey, United States, 2001-2008

## Awareness of HCV Infection Status



# NHANES Survey, United States, 2001-2008

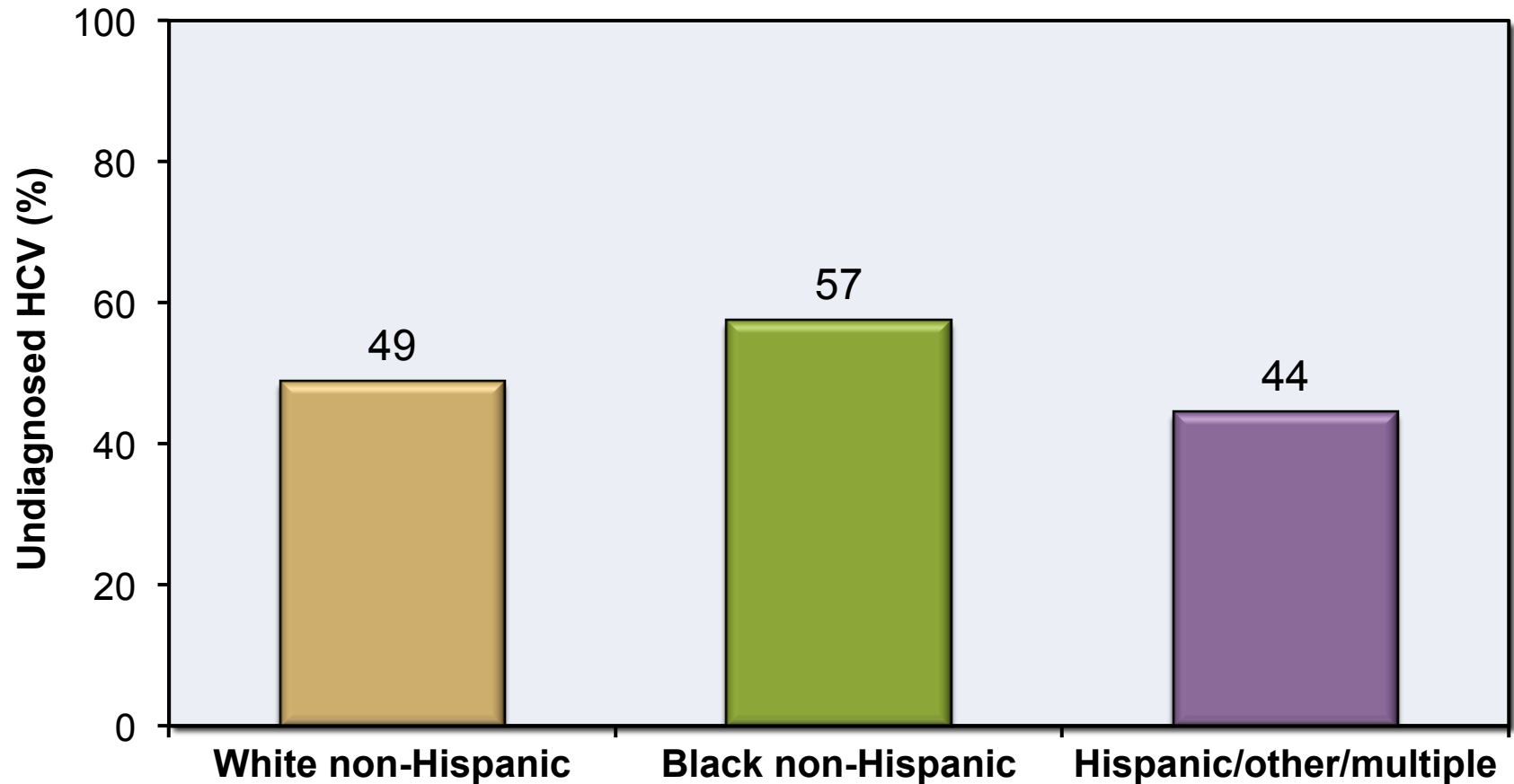
## Lack of Knowledge of HCV Infection Status, by Age



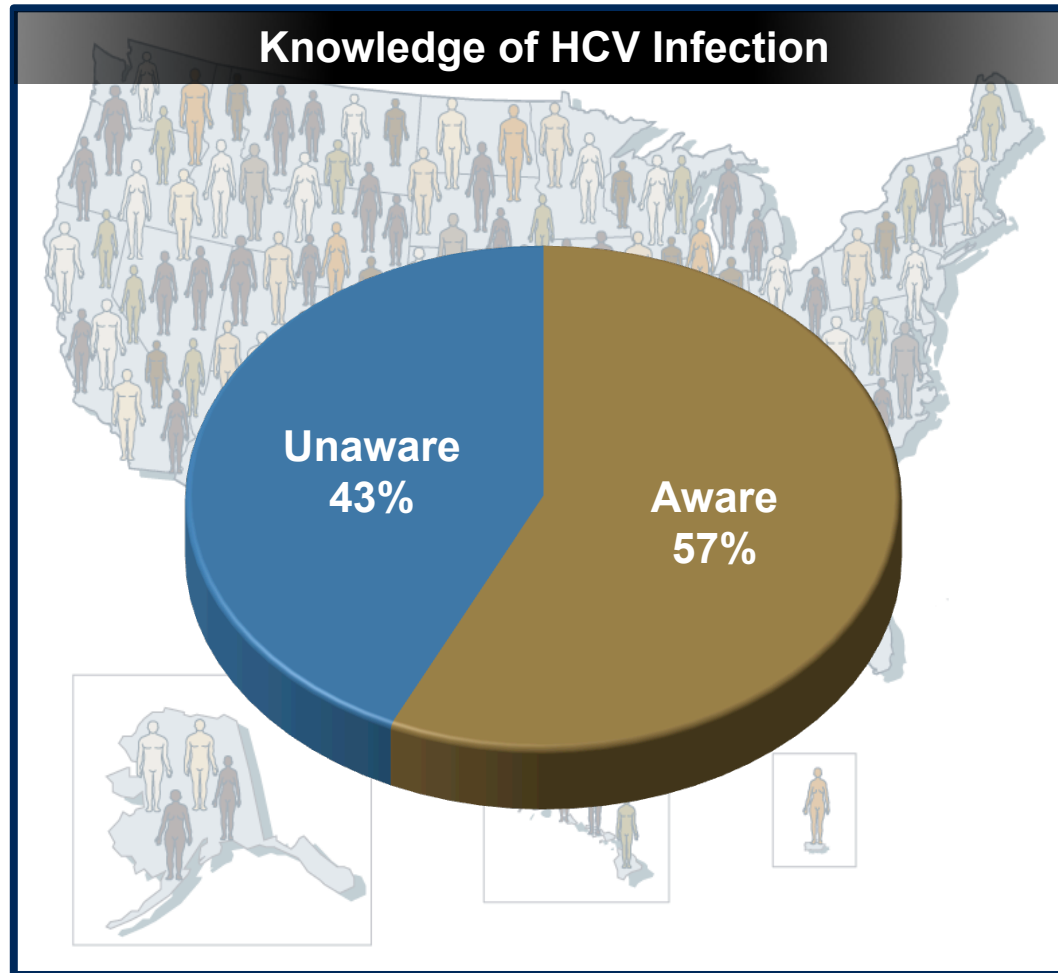
Source: Denniston M, et al. *Hepatology*. 2012;55:1652-61.

# NHANES Survey, United States, 2001-2008

## Lack of Knowledge of HCV Infection Status, by Race



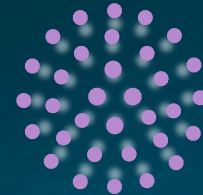
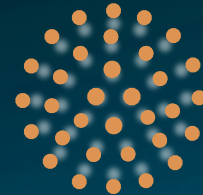
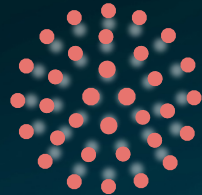
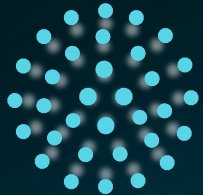
# Private Health Care Organizations, United States, 2006-2008 Awareness of HCV Infection Status



# Hepatitis C Incidence and Prevalence in the U.S.: Summary

- The HCV annual incidence has declined dramatically since the mid-1980's
- In 2010, an estimated 17,000 new cases of hepatitis have occurred
- An estimated 4.2 to 5.1 million persons are HCV antibody positive
- An estimated 3.2 to 4.1 million persons are living with chronic hepatitis C
- The HCV prevalence is highest among persons born during 1945 to 1965
- Approximately 50% of persons are unaware of their hepatitis C status

# End



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