

The Kaiser Permanente Viral Hepatitis Registry

M. Michele Manos, PhD, MPH, DVM

Division of Research

Kaiser Permanente Northern California

The Kaiser Permanente Medical Care Program of Northern California



- Group practice, prepaid, integrated health care program
- 3.2 million members
- 15 medical service areas, >50 outpatient clinics
- Serves 20-30% of insured in geographic region
- Representative of total population except for extremes of income
- Division of Research, Oakland

The KPNC Viral Hepatitis Registry

- Established in 2005, identifies and studies chronic hepatitis B and hepatitis C patients in the membership
- Built from KPNC electronic data sources (admin, clinical)
- Complete records Jan. 1995- June 2012 (~yearly updates)
- Studies screening and prevention practices
- Monitors hepatocellular carcinoma rates and etiology
- Led by Division of Research team, includes collaboration between various TPMG medical specialties
- Created to serve quality improvement, public health and biomedical research efforts

Viral Hepatitis Cases in Registry

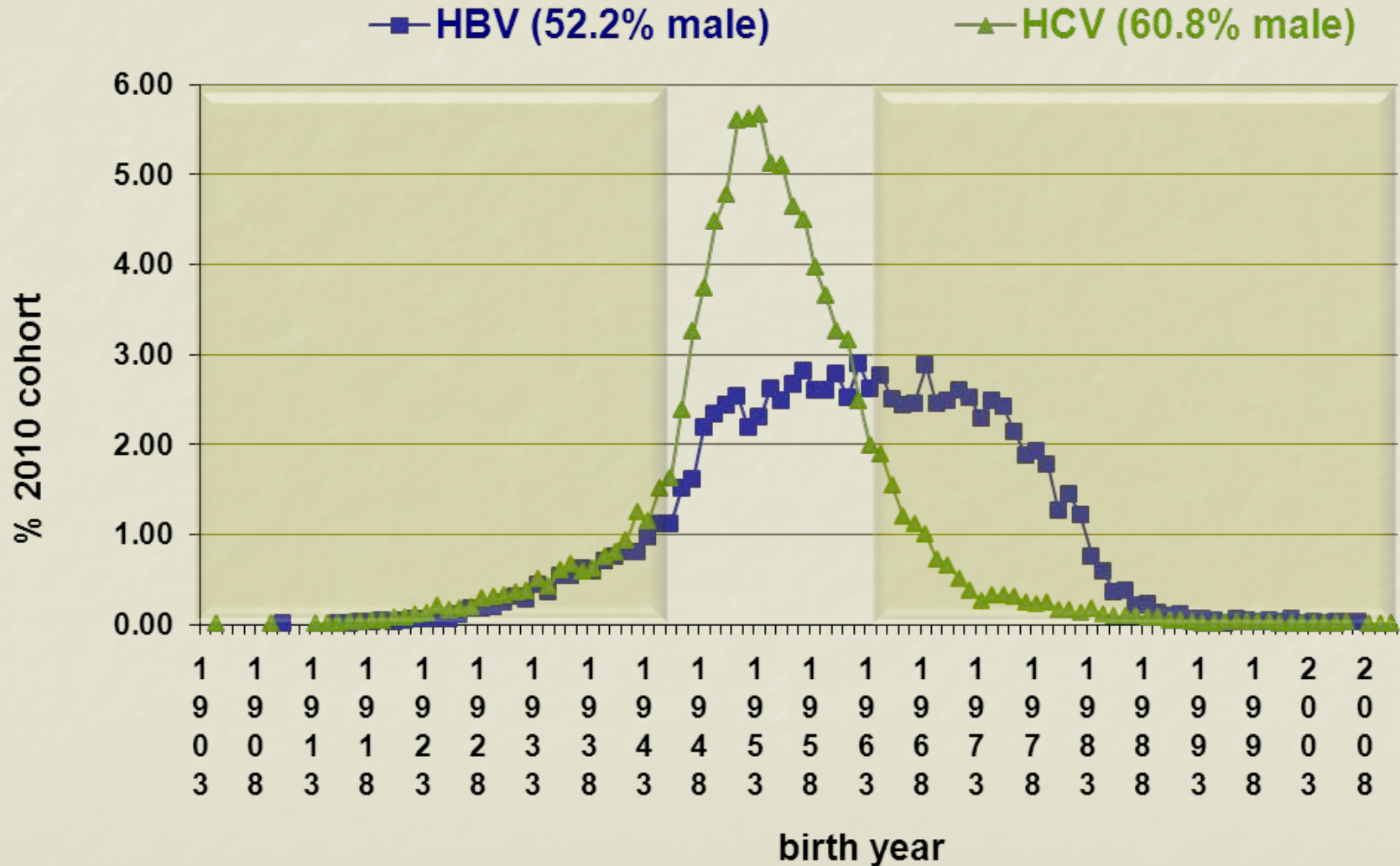
January 1995 – June 2012

	Total 1995-2012*	2012 Cohort^
Chronic hepatitis B	28,858	16,359
Chronic hepatitis C	42,962	17,610

*each group includes 635 cases co-infected with both viruses

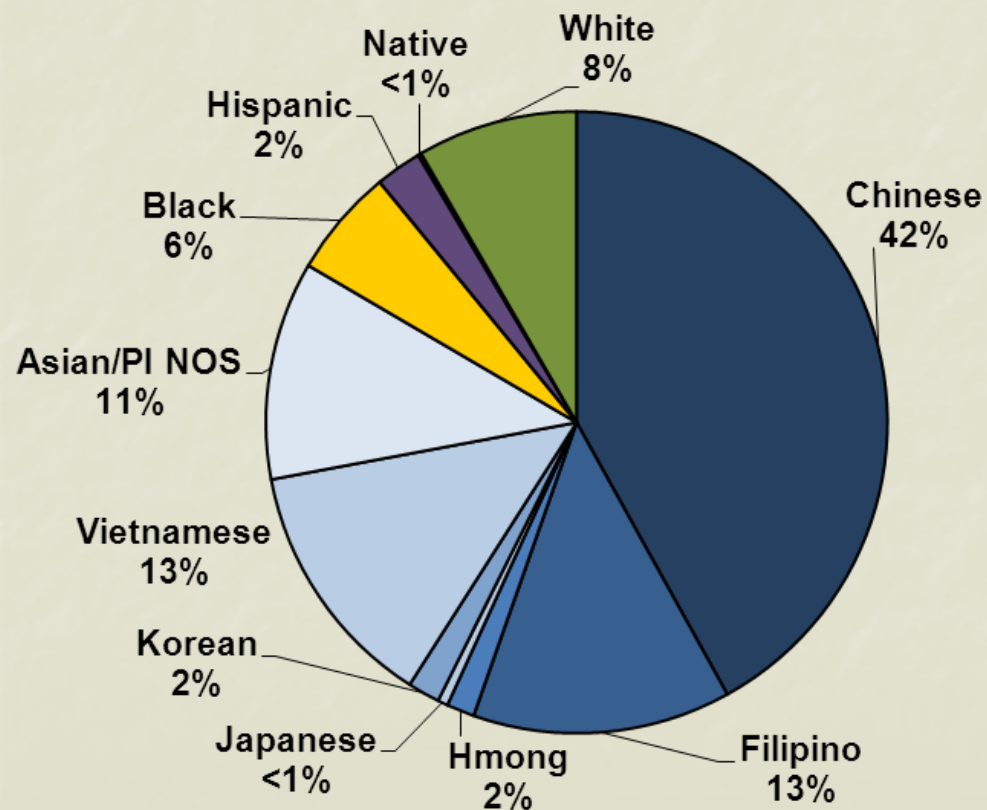
^each group includes 257 patients co-infected

Distribution of Cohorts by Birth Year

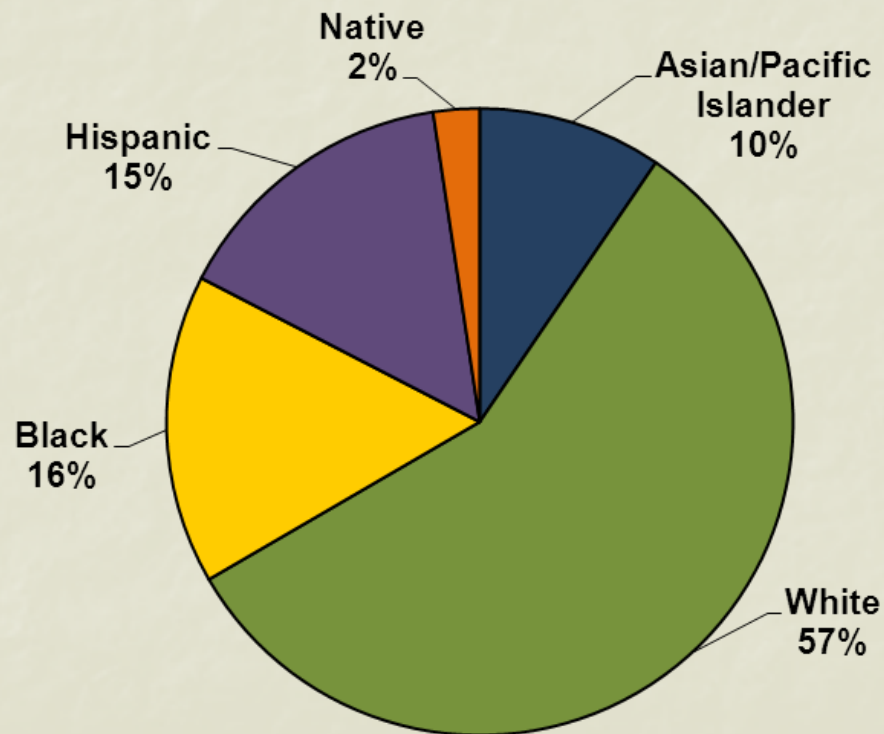


Racial/ethnic distribution

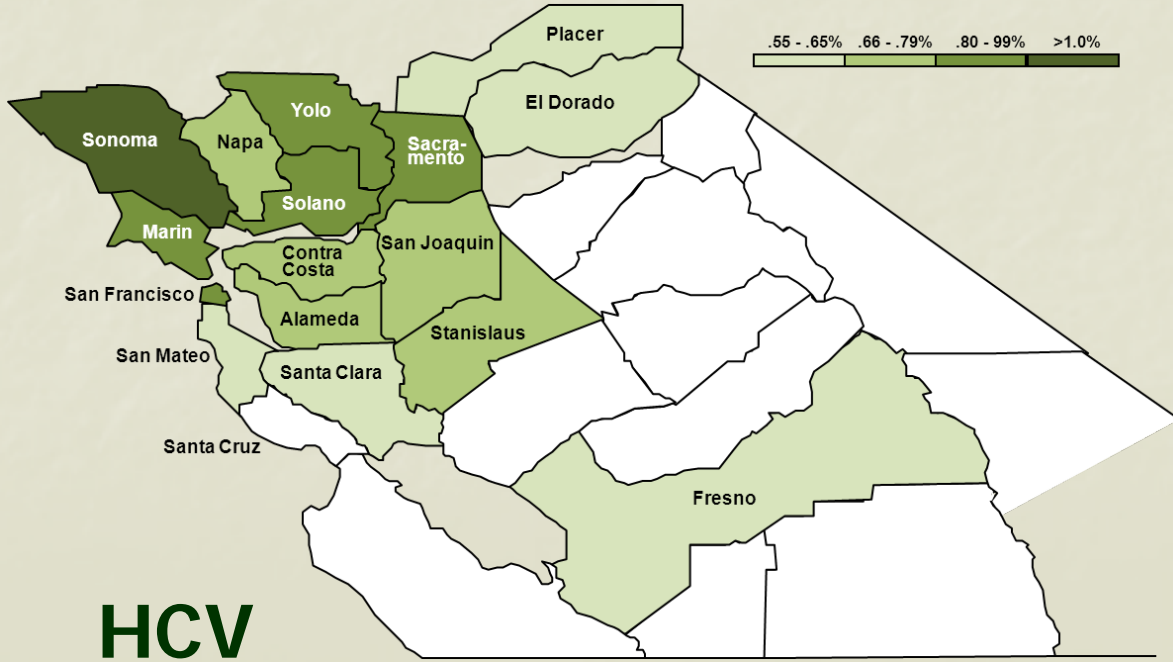
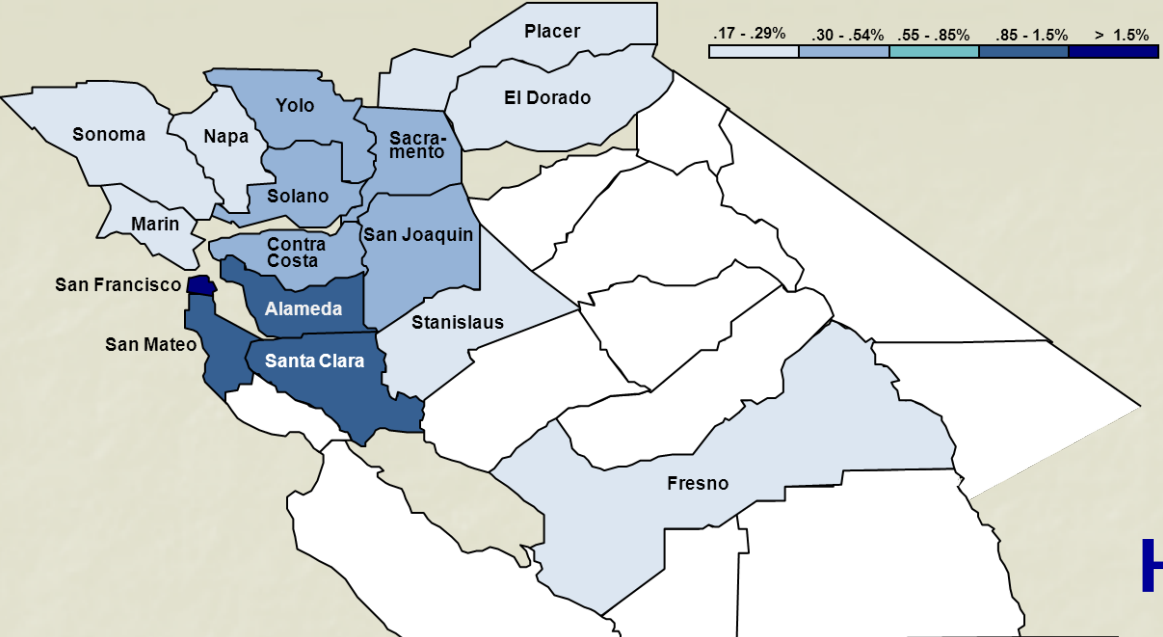
HBV cohort



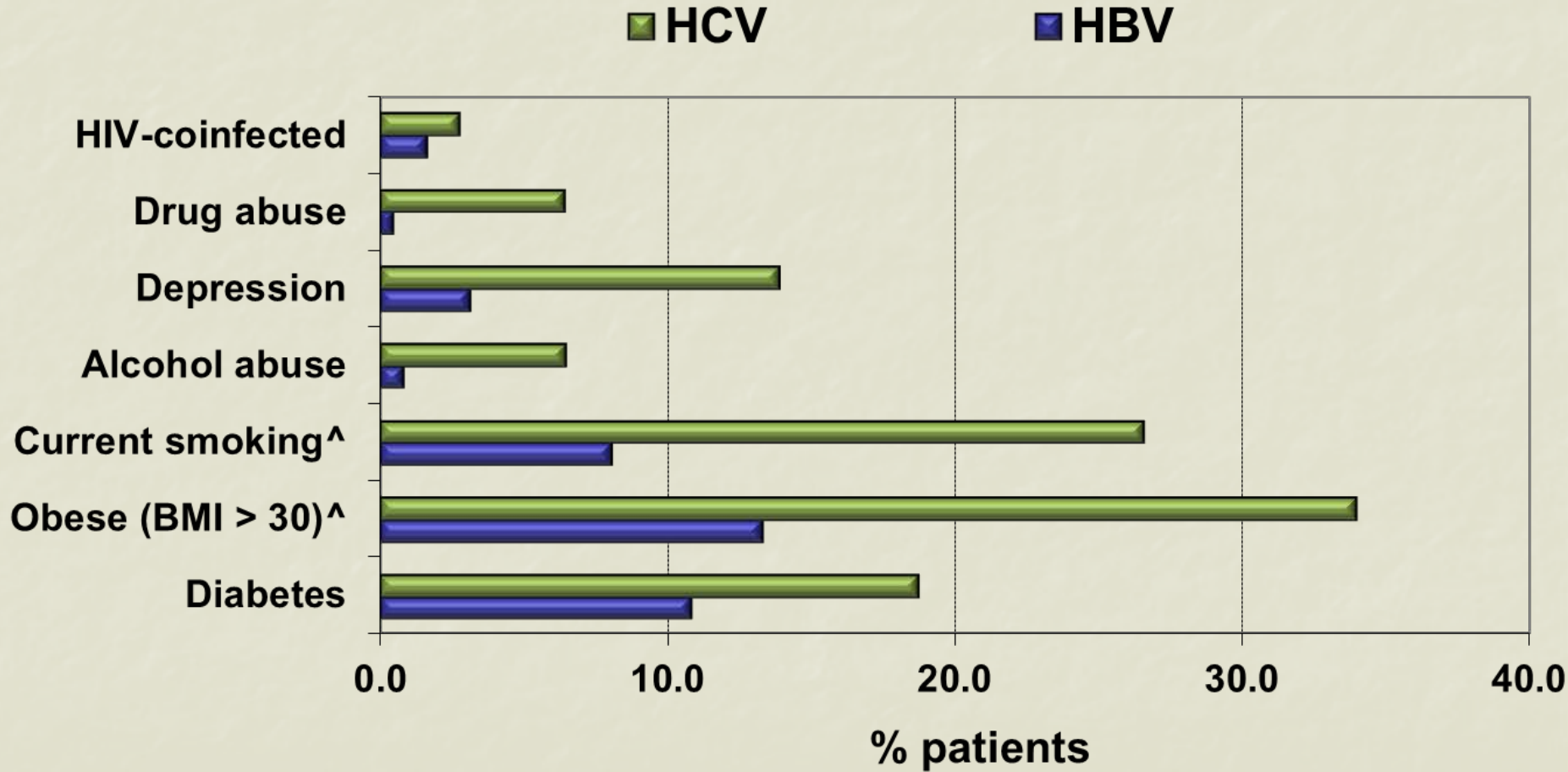
HCV cohort



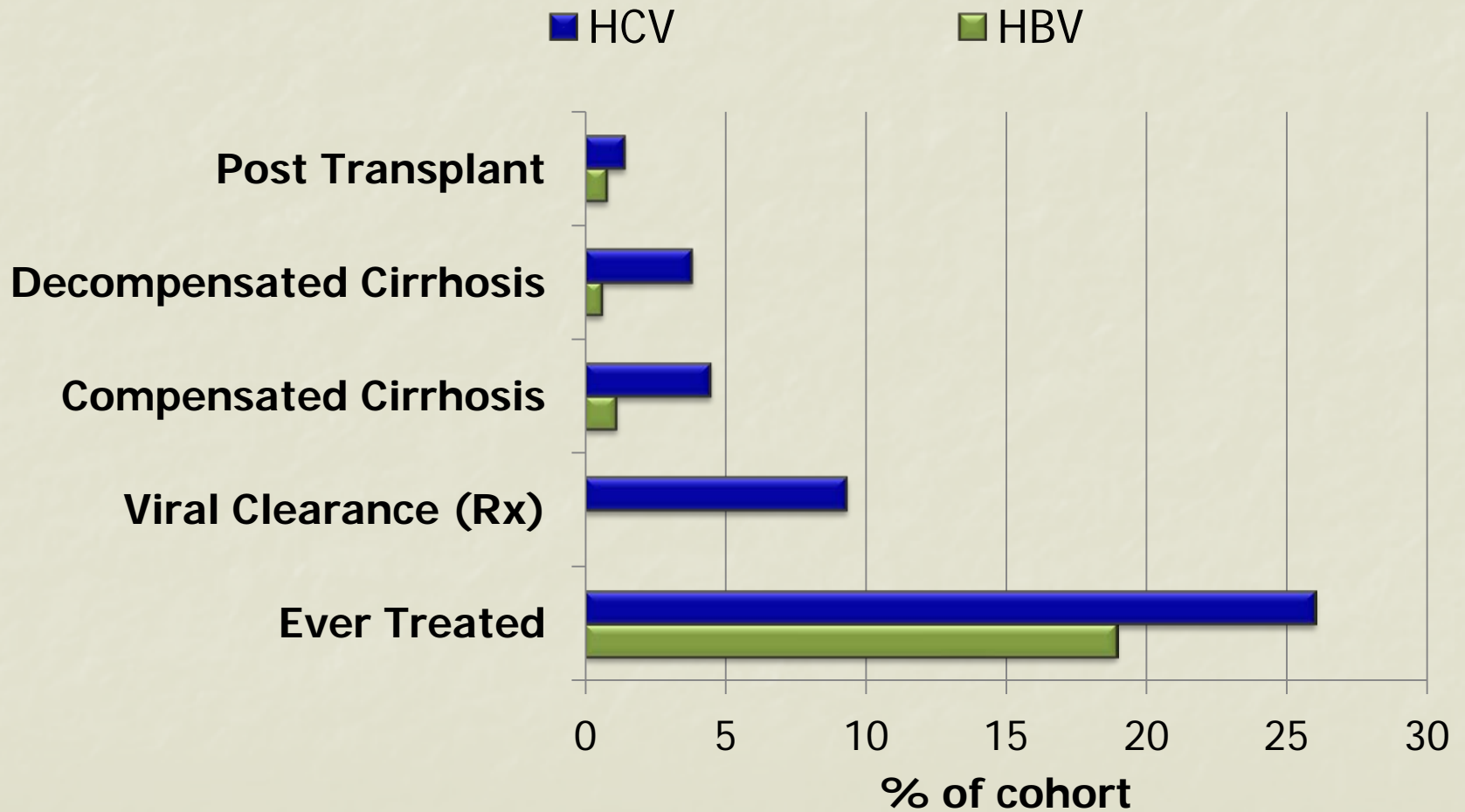
Prevalence by county, among members



Other Conditions and Behaviors



Liver-Related Treatment and Morbidity



Examples of VHR-based Research Projects

- Cohort descriptions (demographic and clinical), and quality of care measures
- Epidemiologic determinants of HCV genotype
- Patient perspectives about HCV treatment
- Long term clinical and cost benefits of SVR
- Immunogenetic correlates of response to HCV antiviral therapy (Bay Area Hep C - CRC)
- Ethnic disparities in HBV screening and care
- Trends in HCC rates and underlying etiology

The Viral Hepatitis Registry Team

Division of Research

- Data Manager and Lead Analyst: Valentina Shvachko
- Project Manager: Rosemary Murphy
- Data Analyst, Special Projects: Jeanne Darbinian
- Director: M. Michele Manos
- Statistical Consultant: Charles Quesenberry
- Clinical Research Consultant: Theodore R. Levin

The Permanente Medical Group Liaisons

- Gastroenterology: Smita Rouillard, Joanna Ready, Mary Pat Pauly
- Infectious Diseases: David Witt, Jamila Champsi, Sally Slome
- Medicine: Namrata Sidhu, Sheryl Sun
- Radiology: David Shen Lee, Stefan Haller
- Pathology: Balaram Puligandla, Gregory Rumore
- Regional Laboratory: Mark Stanley, Jeffrey Schapiro
- Associate Executive Director: Philip Madvig

THANK YOU.....