

UNIVERSITY of MARYLAND SCHOOL OF MEDICINE

INSTITUTE OF HUMAN VIROLOGY

BACKGROUND

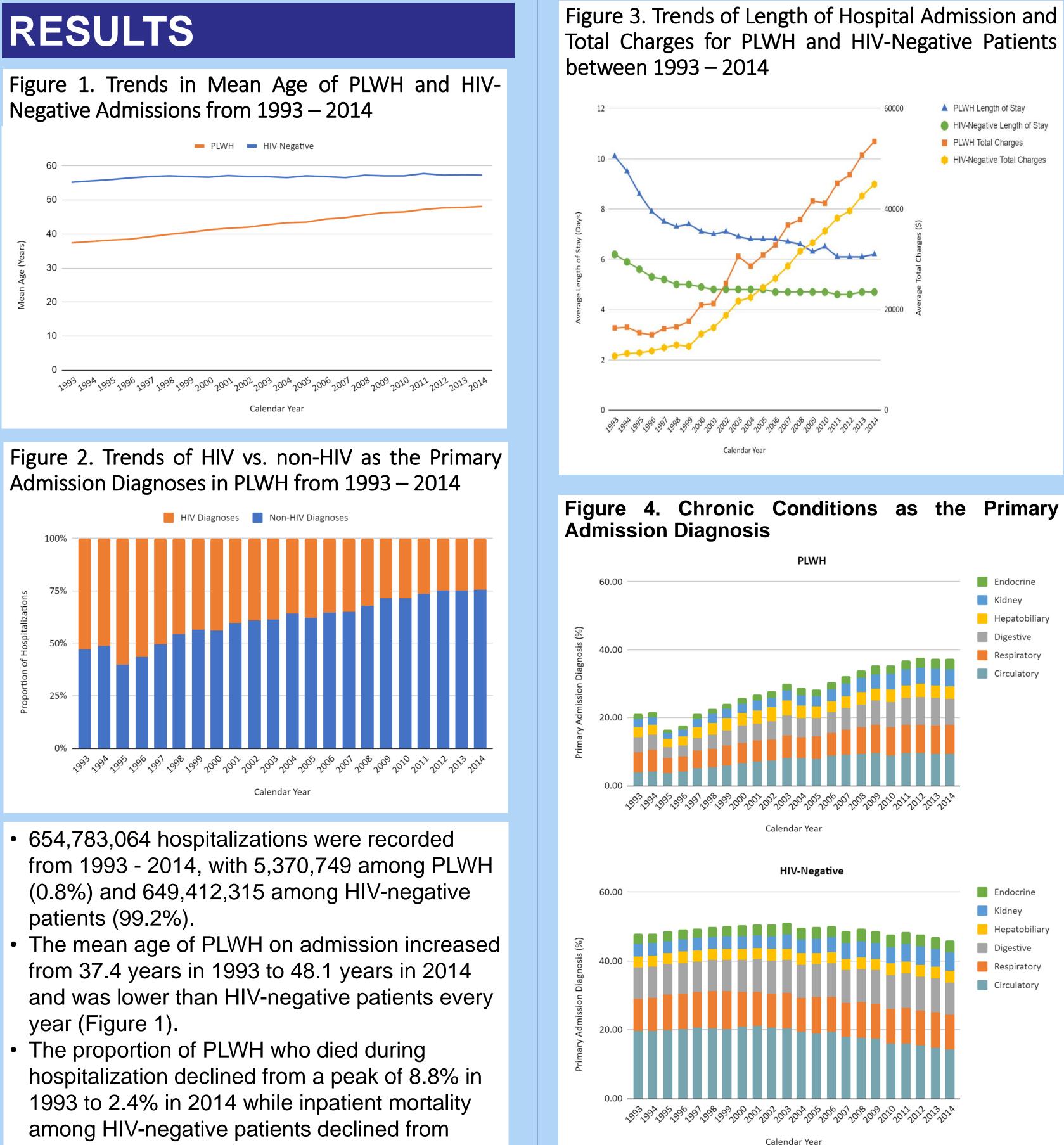
- As antiretroviral therapy for HIV has become more successful, people living with HIV (PLWH) are aging.
- Nearly half (48%) of all PLWH in the U.S. are now \geq 50 years old, and this proportion is expected to continue to grow.
- The aging population of PLWH offers challenges to the healthcare new system beyond HIV management, increased risks for chronic with comorbidities and other complications of aging.
- This project focuses on the causes outcomes of hospitalizations and PLWH these among and how diagnoses have changed over time.

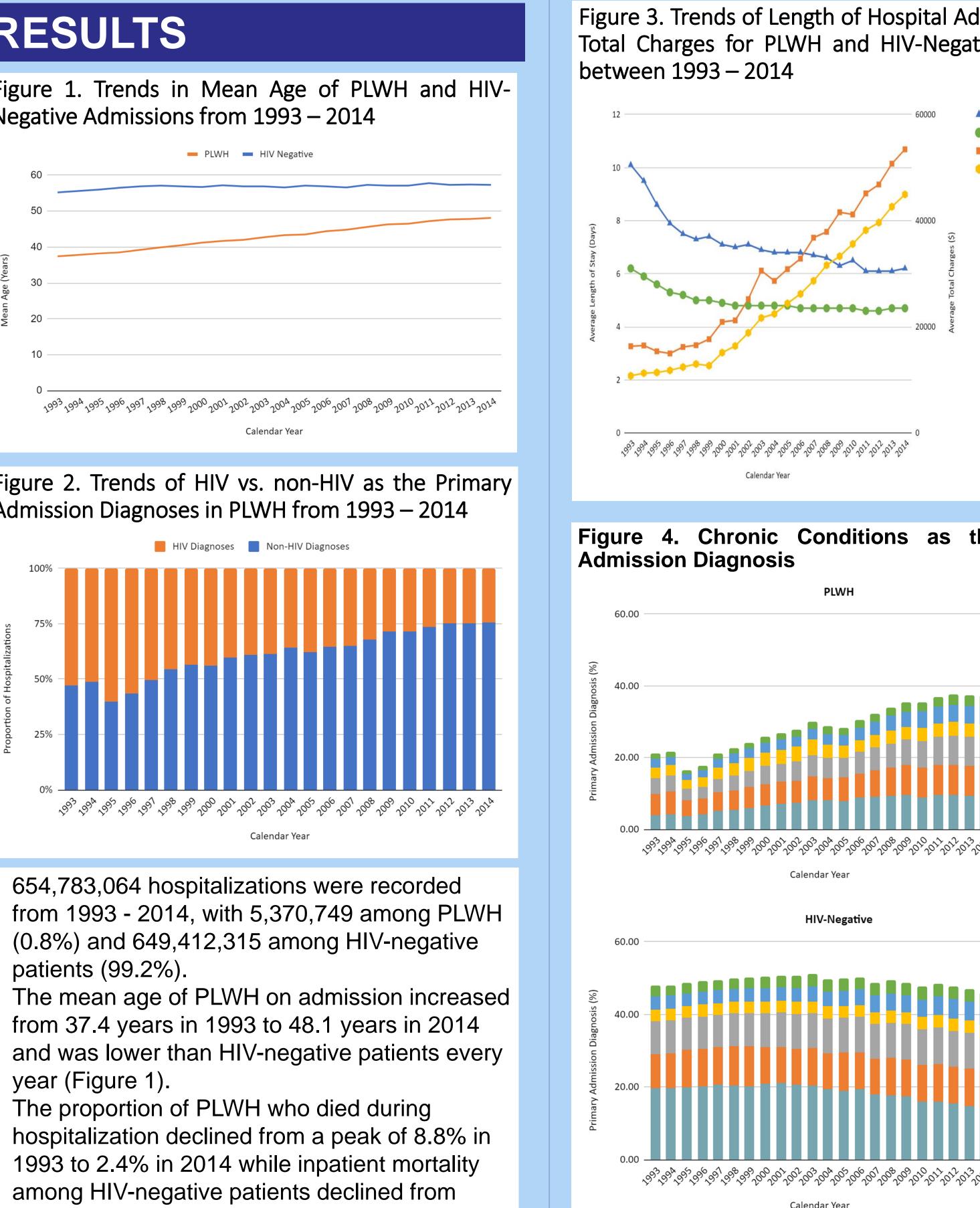
METHODS

We queried patient data from the Healthcare Cost and Utilization Project (HCUP) from the Nationwide Inpatient Sample (NIS) database from 1993 to 2014 to evaluate the primary admission diagnosis for PLWH compared to HIV-negative patients. The NIS is a "large publicly available all-payer inpatient healthcare database designed to produce U.S. regional and national estimates of inpatient utilization, access, charges, quality, and outcomes." www.hcup-us.ahrq.gov

The Changing Dynamics of Hospitalizations among People Living with HIV over Time

Shruti Gujaran, Kristen A. Stafford PhD, MPH, David J. Riedel MD, MPH Institute of Human Virology, University of Maryland School of Medicine, Baltimore MD





- 3.2% to 2.2% over the same time.

HIV-Negative Length of Stay PLWH Total Charges HIV-Negative Total Charges

Endocrine

Hepatobiliary

Respiratory

Circulatory

Endocrine

Digestive

Respiratory

Circulatory

Hepatobiliary

Kidney

Kidney

Digestive



hivma

- There was a significant decrease in the proportion of admissions with HIV as the primary diagnosis for PLWH between 1993 -2014 (53.1% to 24.2%) with a corresponding increase in non-HIV diagnoses over that time (Figure 2). The proportions of primary admission diagnoses for HIV-negative patients were largely unchanged over the period.
- Although mean hospital lengths of stay for PLWH decreased over time, they were consistently longer than HIV-negative patients (Figure 3).
- Similarly, mean total charges for PLWH increased over time but were consistently higher than those for HIV-negative patients (Figure 3).
- From 1993 to 2014, the proportion of all PLWH who are hospitalized with chronic conditions increased from 21.03% to 37.5%, with the largest increases in circulatory, respiratory, and digestive systems (Figure 4).

CONCLUSIONS

- The primary admission diagnoses for PLWH has shifted from HIV to non-communicable causes as PLWH are living longer.
- PLWH are typically younger on admission and have longer and more expensive hospitalizations than HIV-negative patients. The mortality of PLWH has decreased over time compared no HIV-negative patients.

This project was funded by the HIVMA Medical Student Research Grant.