Aging Research Datasets

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Disclosures

- Royalties from UpToDate
Overview

- High-value datasets for aging research
  - NHATS
  - HRS
  - Medicare claims data
  - (NHANES, NAMCS/NHAMCS)
- Pepper Center and other resources
General principles

- Population-based datasets
  - Representative of the underlying population
  - Sampling strategies
  - Strengths and limitations
HRS

- Longitudinal panel survey of US adults age 50+, every 2 yrs
- Oversample African Americans
HRS

- Extensive survey questions
  - Health status, health services use
  - Functional status, cognitive items, geriatric syndromes
  - SES, economic, neighborhood characteristics, etc.
- Experimental modules
- Decedent interviews
- Every other wave – physical performance measures, basic blood tests
- Freely-accessible
- Linkages to Medicare data
Do you consider yourself Hispanic or Latino?
  • Would you say you are Mexican American, Puerto Rican, Cuban American or something else?

What race do you consider yourself to be: White, Black or African American, American Indian, Alaska Native, Asian, Native Hawaiian, Pacific Islander, or something else?
  • OK to select >1; which is your “primary”
HRS

- Race, Gender, and Socioeconomic Variations in C-Reactive Protein Using the Health and Retirement Study
- Depressive Symptoms and Loneliness Among Black and White Older Adults: The Moderating Effects of Race
- Physical Activity as a Mediator between Race/Ethnicity and Changes in Multimorbidity
NHATS

- Similar to HRS
- Age 65+, Medicare beneficiaries
- Started in 2011, annual surveys
NHATS

What race do you consider yourself to be: White, Black or African American, American Indian, Alaska Native, Asian, Native Hawaiian, Pacific Islander, or something else?

• >1 allowed

Do you consider yourself Hispanic or Latino?

• Would you say you are Mexican American, Puerto Rican, Cuban American, or something else?
NHATS

- Race Differences in Characteristics and Experiences of Black and White Caregivers of Older Americans.
- Dementia Prevalence in Older Adults: Variation by Race/Ethnicity and Immigrant Status.
- Unintended Harm? Race Differences in the Relationship Between Advance Care Planning and Psychological Distress at the End of Life.
Medicare claims data

- Claims = billing
- Inpatient, outpatient
- Hospice, home care, durable medical equipment
- Part D (prescription drug)

Creative uses
- Multimorbidity indices
- Claims-based frailty indices
Medicare claims data

- Medicare Beneficiary Summary File (MBSF) contains two race and ethnicity variables
  - from SSA records
  - imputed race and ethnicity variable created by the Research Triangle Institute
    - Improve classification of Hispanic/Latinx and AAPI race / ethnicity based on surnames plus residence in Puerto Rico or Hawaii
    - 6 categories non-Hispanic White, non-Hispanic Black, Hispanic/Latino, Asian American/Pacific Islander (AAPI), American Indian/Alaska Native (AIAN), and Other/Unknown.
Medicare claims data

- Race/Ethnicity and Sex-Related Differences in Direct Oral Anticoagulant Initiation in Newly Diagnosed Atrial Fibrillation

- Disparities in 30-Day Rehospitalization Rates Among Medicare Skilled Nursing Facility Residents by Race and Site of Care.
Others

- NHANES
- NAMCS and NHAMCS
UCSF Pepper Center

Leadership & Administration Core (LAC)
Orchestrates research and program initiatives

Research Education Core (REC)
Designs curricula and programs for career development and facilitates mentorship of junior investigators

Pilot & Exploratory Studies Core (PESC)
Facilitates mentorship in bridging multidisciplinary investigators into aging-related research

Vulnerable Populations Aging Research Core (VARC)
Facilitates mentorship and provides expert guidance on aging-related research

Data & Analysis Core (DAC)
Facilitates mentorship and specializes in providing expert guidance on research utilizing large secondary data analysis methodologies

HRS
NHATS
VA
Medicare 20%
Dataset and other resources

- **SGIM Dataset Compendium**
  - [https://www.sgim.org/communities/research/dataset-compendium](https://www.sgim.org/communities/research/dataset-compendium)

- **UCSF Population Health Data Initiative**
  - [https://pophealth.ucsf.edu/population-health-data-initiative](https://pophealth.ucsf.edu/population-health-data-initiative)

- **Other data resources for aging research**