It's About Time: Health Disparities Among US Women Through an Age, Period, and Cohort Lens, 1978–2018

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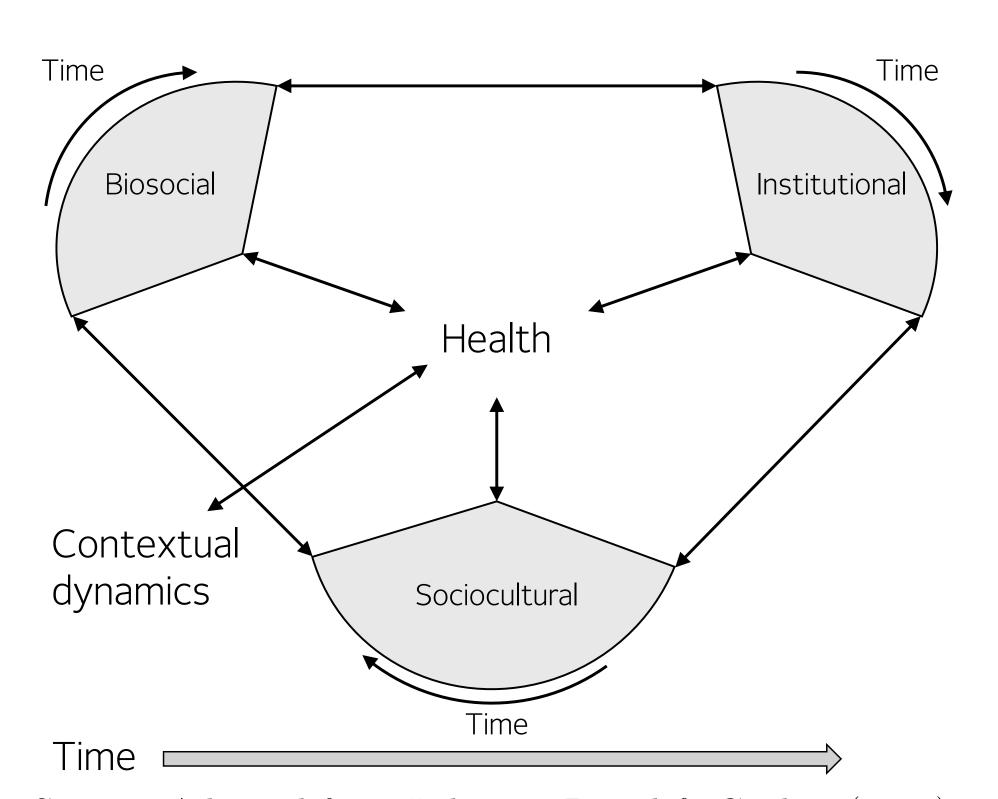
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Summary

- This study uses a temporal framework to recontextualize women's health disparities.
- We analyze the biosocial accumulation of disadvantage (age effects), institutional and policy changes (period effects), and sociocultural transmission of health patterns $(cohort\ effects).$
- The findings collectively suggest that health disparities are situationally, historically, and culturally grounded in time.

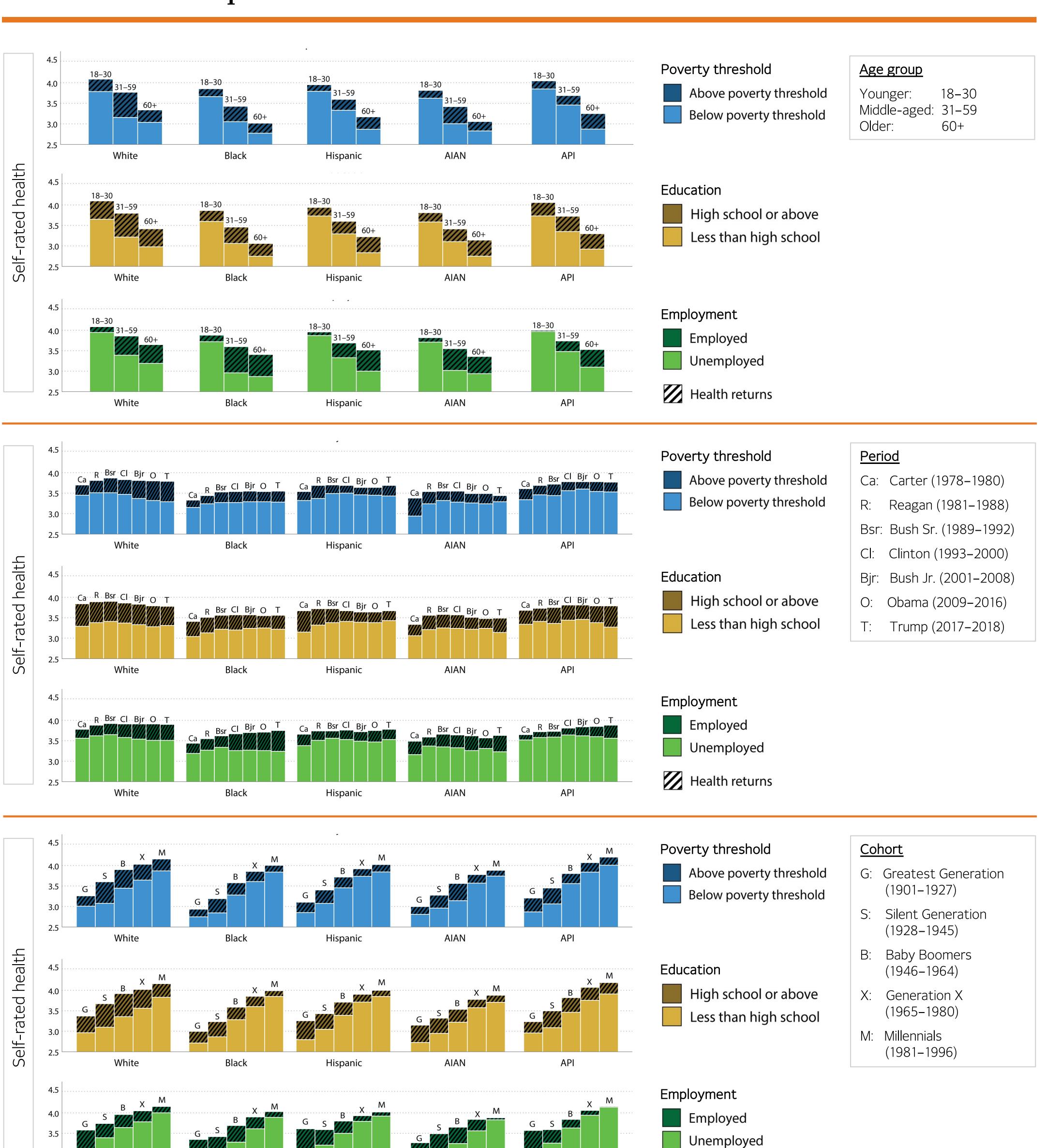
Background

- Three key frameworks of diminished health returns explain how socioeconomic status impacts health differently by race/ethnicity:
- **Biosocial**: Individual experiences that become biologically embedded over the life course
- (2) **Institutional**: Policies, healthcare systems, and structural barriers that affect health
- (3) **Sociocultural**: Cultural norms and generational patterns that influence health behaviors and outcomes
- We contribute a fourth dimension—**time**—to make sense of the links between race/ethnicity, socioeconomic status, and health disparities.



Source: Adapted from Lehman, David & Gruber (2017).

An APC Perspective on the Health Returns of Socioeconomic Status



Note: Separate models are run for age, period, and cohort, each with random effects. This figure shows differences in estimated coefficients between higher and lower socioeconomic categories by race/ethnicity, adjusting for other socioeconomic indicators, time dimensions, marital status, number of children, region, and sample weights.

Health returns

Methods

Hierarchical age-period-cohort (APC) model (Bell & Jones, 2015; Yang & Land, 2006) to examine temporal patterns in how income, education, and employment impact health.

• National Health Interview Survey (NHIS), 1978–2018 (N = 1,416,652)

Outcome

• Self-rated health (1 = poor to 5 = excellent)

Key predictors

- Race/ethnicity
- Black/African American
- 3. Hispanic
- 4. Asian/Pacific Islander
- 5. American Indian/Alaska Native
- Income-to-poverty ratio

Socioeconomic status

- Education
- Employment

Time dimensions

- Age group
- Younger (18-30)
- 2. Middle-aged
- (31-59)
- Older (60+)
- Reagan (1981–1988) 3. Bush Sr. (1989–1992)
- 4. Clinton (1993–2000) Bush Jr. (2001-2008)
- 6. Obama (2009–2016) Trump (2017–2018)
- Cohort Period Carter (1978–1980)
 - Greatest Generation (1901-1927)
 - Silent Generation (1928 - 1945)
 - Baby Boomers (1946 - 1964)Generation X
 - (1965 1980)Millennials (1981 - 1996)

Controls

- Marital status (never married, married, separated/divorced, or widowed) Number of children in the household (0, 1, 2, or 3+)
- Geographical region (Northeast, Midwest, South, or West)

Conclusions

- A temporal framework helps examine microlevel processes alongside macrolevel structural and cultural factors.
- Different time dimensions may be more relevant in specific contexts, such as the weathering experienced by minoritized groups.
- Time is fluid and multidimensional; individuals navigate multiple time dimensions shaped by their social contexts.
- The time element helps clarify the impacts of multiple intersecting individual, institutional, and cultural contexts on health inequities.