

Studies reveal socioeconomic and racial disparities in lupus

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Two new studies have uncovered socioeconomic disparities related to the health of patients with lupus. A study in *Arthritis & Rheumatology* found a link between poverty and worse disease-associated medical complications over time, and a study in *Arthritis Care & Research* discovered that the frequency of adverse pregnancy outcomes in Black and Hispanic patients with lupus is higher than that in White women with the disease.

To estimate the effect of [poverty](#) on damage to organ systems in patients with [lupus](#), Edward Yelin, PhD, of the University of California, San Francisco, and his colleagues followed 783 patients from 2003 to 2015 through annual interviews. Respondents were categorized in each year by whether they were in households $\geq 125\%$ of the Federal Poverty Level.

After adjusting for sociodemographics, health care characteristics, and health behaviors, poverty in 2009 was associated with an increased level of accumulated end-organ damage in 2015 and a 1.67-times increased likelihood of experiencing a clinically meaningful increase in such damage. Being poor in every year between 2003 and 2009 was associated with greater damage than being poor half of years or more, fewer than half of years, or no years. Those who transitioned out of poverty permanently had similar increases in end-organ damage as those who were never in poverty but much less damage than those who remained in poverty.

"Persistent poverty and being poor in an area of concentrated poverty

seem to worsen the amount of disease damage over time, while exiting poverty may alleviate it," said Dr. Yelin. "We have also shown that chronic stress associated with poverty may play an important role in why the poor experience more damage. Such stresses may include having to deal with food, housing, and medical care insecurity."

Preliminary evidence from prior studies suggests that poverty may be implicated in damage associated with lupus, but this study goes beyond these findings to show that the "dose" of poverty—in terms of the number of years of poverty, living among others who are poor, and exiting poverty—may affect the magnitude of [damage](#). Therefore, providing high quality medical care is not sufficient to alleviate the [adverse health effects](#) of poverty on patients with lupus. "Asking health care providers to reverse the strong currents battering the poor may be a very tall order. Nevertheless, responsible clinicians do try hard to reduce the load on the poor with lupus," said Dr. Yelin.

In the *Arthritis Care & Research* study, a team led by Jane Salmon, MD, of the Hospital for Special Surgery in New York City, examined rates of adverse [pregnancy](#) outcomes, such as fetal death, preterm delivery due to preeclampsia, and fetal growth restriction, by race/ethnicity among 408 women with lupus, and whether [socioeconomic status](#) accounted for differences.

The frequency of adverse pregnancy outcomes in Black and Hispanic lupus patients was approximately twofold greater than that in White patients. In Black women, socioeconomic status (such as educational attainment and community income) was a determinant of pregnancy outcomes and a key contributor to disparities in adverse pregnancy outcomes.

Dr. Salmon noted that many previous studies have confirmed disparities in adverse pregnancy outcomes among racial/ethnic groups, with most

noting non-Hispanic White race as protective. Others have shown disparities in adverse pregnancy outcomes between women of different socioeconomic status. "However, we know of no studies to date that attempt to disentangle the factors that make up the race/ethnicity variable, such as socioeconomic status and genetics when analyzing these disparities," she said. Because all patients were seen each month of pregnancy by study rheumatologists and/or obstetricians with expertise in lupus pregnancy, and compliance with study visits did not vary with race/ethnicity, the strong effect of socioeconomic factors was unexpected.

"Additional work is needed to understand the potential sources of these disparities in pregnancy outcomes, and how and when to intervene to reduce disparities," said Dr. Salmon. "At present, we must be vigilant in educating and monitoring pregnant [patients](#) at increased risk of complications."

May is Lupus Awareness Month, and May 10 is World Lupus Day.

More information: Edward Yelin et al, A Prospective Study of the Impact of Current Poverty, History of Poverty, and Exiting Poverty on Accumulation of Disease Damage in SLE, *Arthritis & Rheumatology* (2017). [DOI: 10.1002/art.40134](https://doi.org/10.1002/art.40134)

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