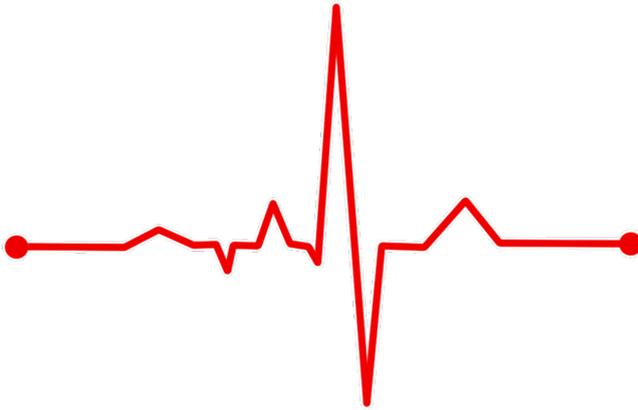


# Significantly higher rates of mortality due to heart disease and cancer among Holocaust survivors

8 April 2021



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The damaging effects of life under Nazi rule have long been known with many victims having experienced periods of protracted emotional and physical torture, malnutrition and mass exposure to disease. But recent research from the Hebrew University of Jerusalem show that even for those who survived, their health and mortality continued to be directly impacted long after the end of the Holocaust.

The study, led by Dr. Iaroslav Youssim and Dr. Hagit Hochner from the School of Public Health at the Faculty of Medicine and published in the *American Journal of Epidemiology*, investigated mortality rates from specific diseases over the course of many years among Israel-based Holocaust survivors.

The researchers analyzed death records of approximately 22,000 people who were followed-up from 1964 to 2016 and compared the rates of

mortality from cancer and heart disease among survivors to the rates in individuals who did not live under Nazi occupation. Among women survivors, the study found a 15% higher rate of overall mortality and a 17% higher chance of dying from cancer. Among men, while overall death rates of the survivors were not different from those of the unexposed, mortality from cancer during the studied period was 14% higher among the [survivor](#) population and remarkably the rate of mortality from [heart disease](#) was 39% higher.

"Our research showed that people who experienced life under Nazi rule early in life, even if they were able to successfully migrate to Israel and build families, continued to face higher [mortality rates](#) throughout their lives," Dr. Youssim explains. "This study supports prior theories that survivors are characterized by general health resilience combined with vulnerabilities to specific diseases." Dr. Hochner added, "These findings reflect the importance of long-term monitoring of people who have experienced severe traumas and elucidates [mortality](#) patterns that might emerge from those experiences."

**More information:** Iaroslav Youssim et al. Holocaust Experience and Mortality Patterns: 4-Decade Follow-up in a Population-based Cohort, *American Journal of Epidemiology* (2021). [DOI: 10.1093/aje/kwab021](https://doi.org/10.1093/aje/kwab021)

Provided by Hebrew University of Jerusalem

APA citation: Significantly higher rates of mortality due to heart disease and cancer among Holocaust survivors (2021, April 8) retrieved 18 May 2021 from <https://medicalxpress.com/news/2021-04-significantly-higher-mortality-due-heart.html>

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