

## 2000–2010 to 2011–2022 saw increase in lifetime risk for atrial fibrillation

April 22 2024, by Elana Gotkine

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From 2000 to 2022, there was an increase in the lifetime risk for atrial fibrillation, according to a study [published online](#) April 17 in *The BMJ*.

Nicklas Vinter, M.D., Ph.D., from Aalborg University in Denmark, and colleagues examined how the lifetime risks for atrial fibrillation and

complications after atrial fibrillation have changed over time (from 2000–2010 to 2011–2022) in a nationwide Danish population-based cohort study. Participants included 3.5 million individuals who did not have atrial fibrillation at 45 years or older; all 362,721 with incident atrial fibrillation, with no prevalent complications, were followed until incident heart failure, stroke, or myocardial infarction.

The researchers found that from 2000–2010 to 2011–2022, the [lifetime risk](#) for atrial fibrillation increased from 24.2 to 30.9 percent. The most frequent complication after atrial fibrillation was heart failure, with a lifetime risk of 42.9 and 42.1 percent in 2000-2010 and 2011-2022, respectively; the mean time lost was 14.4 years for heart failure versus no heart failure.

The lifetime risks for stroke and [myocardial infarction](#) after atrial fibrillation decreased from 22.4 to 19.9 percent and from 13.7 to 9.8 percent, respectively. No evidence of a differential decrease was seen between men and women.

"Our novel quantification of the long-term downstream consequences of atrial fibrillation highlights the critical need for treatments to further decrease [stroke](#) risk as well as for [heart failure](#) prevention strategies among patients with [atrial fibrillation](#)," the authors write.

**More information:** Nicklas Vinter et al, Temporal trends in lifetime risks of atrial fibrillation and its complications between 2000 and 2022: Danish, nationwide, population based cohort study, *BMJ* (2024). [DOI: 10.1136/bmj-2023-077209](https://doi.org/10.1136/bmj-2023-077209)

Jianhua Wu et al, The growing burden of atrial fibrillation and its consequences, *BMJ* (2024). [DOI: 10.1136/bmj.q826](https://doi.org/10.1136/bmj.q826)

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