

# Statin for dementia

The impact of [statin](#) on [dementia](#) risk reduction has been a subject of debate over the last decade, but the evidence remains inconclusive. Therefore, Poly et al. performed a [meta-analysis](#) of relevant [observational](#) studies to quantify the magnitude of the association between statin therapy and the risk of dementia.

Poly et al. systematically searched for relevant studies published from January 2000 to March 2018 using [EMBASE](#), [Google](#), [Google Scholar](#), [PubMed](#), [Scopus](#), and [Web of Science](#). Two authors performed study selection, data abstraction, and risk of bias assessment. They then extracted data from the selected studies and performed meta-analysis of observational studies using a random-effects model. Subgroup and sensitivity analyses were also conducted.

A total of 30 observational studies, including 9,162,509 participants (84,101 dementia patients), met the eligibility criteria. Patients with statin had a lower all-caused dementia risk than those without statin (risk ratio [RR] 0.83, 95% CI 0.79-0.87, I<sup>2</sup> = 57.73%). The overall pooled reduction of Alzheimer disease in patients with statin use was RR 0.69 (95% CI 0.60-0.80, p < 0.0001), and the overall pooled RR of statin use and vascular dementia risk was RR 0.93 (95% CI 0.74-1.16, p = 0.54).

This study suggests that the use of statin is significantly associated with a decreased risk of dementia. Future studies measuring such outcomes would provide useful information to patients, clinicians, and policymakers. Until further evidence is established, clinicians need to make sure that statin use should remain restricted to the treatment of cardiovascular disease <sup>1)</sup>.

<sup>1)</sup>

Poly TN, Islam MM, Walther BA, Yang HC, Wu CC, Lin MC, Li YC. Association between Use of Statin and Risk of Dementia: A Meta-Analysis of Observational Studies. *Neuroepidemiology*. 2019 Oct 1:1-13. doi: 10.1159/000503105. [Epub ahead of print] PubMed PMID: 31574510.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

[https://neurosurgerywiki.com/wiki/doku.php?id=statin\\_for\\_dementia](https://neurosurgerywiki.com/wiki/doku.php?id=statin_for_dementia)

Last update: **2024/06/07 02:54**

