



University of Dundee

Influence of periodontal disease on risk of dementia

Nadim, Rizwan; Dilmohamed, Amena; Yuan, Siyang; Wu, Changhao; Bakre, Aishat T.; Partridge, Martin

Published in:
European Journal of Epidemiology

DOI:
[10.1007/s10654-020-00648-x](https://doi.org/10.1007/s10654-020-00648-x)

Publication date:
2020

Document Version
Peer reviewed version

[Link to publication in Discovery Research Portal](#)

Citation for published version (APA):

Nadim, R., Dilmohamed, A., Yuan, S., Wu, C., Bakre, A. T., Partridge, M., Ni, J., Copeland, J., Anstey, K. J., & Chen, R. (2020). Influence of periodontal disease on risk of dementia: a systematic literature review and a meta-analysis. *European Journal of Epidemiology*, 35(9), 821-833. <https://doi.org/10.1007/s10654-020-00648-x>

General rights

Copyright and moral rights for the publications made accessible in Discovery Research Portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Table 4: Estimated number of dementia cases attributable to periodontal disease in the world

Periodontal disease prevalence	Relative risk*	PAR %	No of cases attributable thousands (confidence range)	Estimated number of cases saved in thousands from 50 million dementia cases
current 20%	1.18 (1.06-1.31)	3.47 (1.86-5.84)	1,735 (930 – 2920)	
reduced to be 10%	1.18 (1.06-1.31)	1.77 (0.60-3.00)	885 (300- 1500)	850 (630-1420)
reduced to be 5%	1.18 (1.06-1.31)	0.89 (0.30-1.53)	445 (150-765)	1290 (780-2155)

* Based on the pooled data from all cohort studies (Figure 2)