



**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.

- Users may download and print one copy of any publication from Discovery Research Portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain.
- You may freely distribute the URL identifying the publication in the public portal.

### **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**

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