

Chewing ability linked to reduced dementia risk

October 4 2012

Can you bite into an apple? If so, you are more likely to maintain mental abilities, according to new research from Karolinska Institutet in Sweden.

The population is ageing, and the older we become the more likely it is that we risk deterioration of our cognitive functions, such as memory, decision-making and problem solving. Research indicates several possible contributors to these changes, with several studies demonstrating an association between not having teeth and loss of cognitive function and a higher risk of dementia.

One reason for this could be that few or no teeth makes chewing difficult, which leads to a reduction in the blood flow to the brain. However, to date there has been no direct investigation into the significance of chewing ability in a national representative sample of elderly people.

Now a team comprised of researchers from the Department of [Dental Medicine](#) and the Aging Research Center (ARC) at Karolinska Institutet and from Karlstad University in Sweden have looked at tooth loss, chewing ability and cognitive function in a random nationwide sample of 557 people aged 77 or older. They found that those who had difficulty chewing hard food such as apples had a significantly higher risk of developing cognitive impairments. This correlation remained even when controlling for sex, age, education and [mental health problems](#), variables that are often reported to impact on cognition. Whether chewing ability

was sustained with natural teeth or dentures also had no bearing on the effect.

The results are published in the [Journal of the American Geriatrics Society \(JAGS\)](#).

More information: Chewing Ability and Tooth Loss: Association with Cognitive Impairment in an Elderly Population Study, *Journal of the American Geriatrics Society*, online ahead of print 4 October 2012

Provided by Karolinska Institutet

Citation: Chewing ability linked to reduced dementia risk (2012, October 4) retrieved 15 May 2024 from <https://medicalxpress.com/news/2012-10-ability-linked-dementia.html>

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