

## Over 65s at increased risk of developing dementia with benzodiazepine

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Patients over the age of 65 who begin taking benzodiazepine (a popular drug used to treat anxiety and insomnia) are at an approximately 50% increased risk of developing dementia within 15 years compared to never-users, a study published today on *BMJ* website suggests.

The authors say that "considering the extent to which benzodiazepines are prescribed and the number of potential adverse effects indiscriminate widespread use should be cautioned against".

Benzodiazepine is a widely prescribed drug for the over 65s in many countries: 30% of this age group in France, 20% in Canada and Spain, 15% in Australia. Although less widespread in the UK and US it is still very widely used and many individuals take this drug for years despite guidelines suggesting it should be limited to a few weeks. Previous studies have found an increased risk of [dementia](#), but others have been non-conclusive.

Researchers from France therefore carried out a study on 1063 men and women (average age 78) in France who were all free of dementia at the start. The study started in 1987 and follow-up was 20 years. The researchers used the first 5 years to identifying the factors leading to benzodiazepine initiation and evaluated then the association between new use of this drug and the development of dementia. They also assessed the association between further benzodiazepine initiation during the follow-up period and risk of subsequent dementia. Rates were adjusted for many factors potentially affecting dementia, such as age,

gender, [educational level](#), marital status, [wine consumption](#), diabetes, [high blood pressure](#), [cognitive decline](#), and [depressive symptoms](#).

95 out of the 1063 patients started taking benzodiazepine during the study. 253 (23.8%) cases of dementia were confirmed, 30 in benzodiazepine users and 223 in non-users. New initiation of the drug was associated with shorter dementia-free survival.

In absolute numbers, the chance of dementia occurring was 4.8 per 100 person years in the exposed group compared to 3.2 per 100 person years in the non-exposed group. A "person year" is a statistical measure representing one person at risk of development of a disease during a period of one year.

The authors say that although benzodiazepine remains useful for treating anxiety and [insomnia](#), there is increasing evidence that its use may induce adverse outcomes in the elderly such as serious falls and fall-related fractures and this study may add dementia to the list. They say that their data add to the accumulating evidence that the use of benzodiazepines is associated with increased risk of dementia and, if true, that this "would constitute a substantial public health concern". Therefore, taken the evidence of potential [adverse effects](#) into account, physicians should assess expected benefits, limit prescriptions to a few weeks, and uncontrolled use should be cautioned against. They conclude that further research should "explore whether use of benzodiazepine in those under 65 is also associated with increased risk of dementia and that mechanisms need to be explored explaining the association"

Provided by British Medical Journal

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