

Desk-based jobs may offer protection against poor cognition in later life

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People who work in jobs that require less physical activity—typically office and desk-based jobs—are atapproximates IQ. a lower risk of subsequent poor cognition than those whose work is more physically active, suggests new research from the University of Cambridge.

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Lack of <u>physical activity</u> and exercise are known <u>risk factors</u> for major health conditions, including cognitive impairments such as memory and concentration problems. However, evidence as to whether physical activity actually protects against cognitive decline has often been mixed and inconclusive.

Researchers at the University of Cambridge
examined patterns of physical activity among 8,500
men and women who were aged 40-79 years old
at the start of the study and who had a wide range
of socioeconomic backgrounds and educational
attainment. The individuals were all part of the
EPIC-Norfolk Cohort. In particular, the team were
able to separate physical activity during work and
leisure to see if these had different associations

International Journal
researchers report:

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"The often used mantra 'what is good for the heart, is good for the brain' makes complete sense, but

the evidence on what we need to do as individuals can be confusing," said Shabina Hayat from the Department of Public Health and Primary Care at the University of Cambridge. "With our large cohort of volunteers, we were able to explore the relationship between different types of physical activity in a variety of settings."

As part of the study, participants completed a health and lifestyle questionnaire, including information on the level of physical activity during both work and leisure, and underwent a health examination. After an average 12 years, the volunteers were invited back and completed a battery of tests that measured aspects of their cognition, including memory, attention, visual processing speed and a reading ability test that approximates IQ.

While many studies have only been able to report cross-sectional findings, the ability to follow up EPIC-Norfolk participants over a long period allowed the researchers to examine data prospectively. This helped them rule out any bias resulting from people with poor cognition—possibly as a result of cognitive impairment or early dementia—being less likely to be physically active due to poor cognition, rather than poor cognition being a result of physical inactivity.

Among their findings, published today in the *International Journal of Epidemiology*, the researchers report:

- Individuals with no qualifications were more likely to have physically active jobs, but less likely to be physically active outside of work.
- A physically inactive job (typically a deskjob), is associated with lower risk of poor cognition, irrespective of the level of education. Those who remained in this type of work throughout the study period were the most likely to be in the top 10% of performers.



 Those in manual work had almost three times increased risk of poor cognition than those with an inactive job.

"Our analysis shows that the relationship between physical activity and cognitive is not straightforward," explained Hayat. "While regular physical activity has considerable benefits for protection against many <u>chronic diseases</u>, other factors may influence its effect on future poor cognition.

"People who have less active jobs—typically office-based, desk jobs—performed better at cognitive tests regardless of their education. This suggests that because desk jobs tend to be more mentally challenging than manual occupations, they may offer protection against cognitive decline."

It was not possible to say conclusively that physical activity in leisure time and desk-based work offer protection against <u>cognitive decline</u>. The researchers say that to answer this question, further studies will be required to include a more detailed exploration of the relationship of physical <u>activity</u> with cognition, particularly on inequalities across socio-economic groups and the impact of lower education.

More information: Cross-sectional and prospective relationship between occupational and leisure time inactivity and cognitive function in an ageing population. The European Prospective Investigation into Cancer and Nutrition in Norfolk (EPIC-Norfolk) Study. *International Journal of Epidemiology* doi.org/10.17863/CAM.51130

Provided by University of Cambridge

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