

# Neurological disorders - public health challenges.

**World Health Organization - Public Health Principles and Neurological Disorders**



Description: -

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Public health

Nervous system -- Diseases -- Epidemiology

Nervous system -- Diseases -- Treatment -- Social aspects

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Neurological disorders - public health challenges.

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## Neurological disorders: public health challenges

Research suggests that the harmful buildup of alpha-synuclein may affect normal function and trigger nerve cell death.

## Neurological disorders: public health challenges

This only accounts for about 30 percent of cases in which there is a family history of PD and only 3 to 5 percent of sporadic cases — instances with no known family history.

## Neurological Disorders: Public Health Challenges

Understanding more about how abnormal proteins spread through the nervous system may provide a potential window for a therapeutic strategy that interrupts the process of protein transmission and slows or halts disease progression. Other NINDS-funded researchers continue to screen additional calcium channel blocking agents in order to develop potential neuroprotective treatments for people with PD. The more than 500,000 study participants were originally recruited in 1995 as part of the National Institutes of Health-American Association of Retired Persons NIH-AARP Diet and Health Study.

## Neurological Disorders: Public Health Challenges

Animal studies suggest DJ-1 plays a role in motor function and helps protect cells against oxidative stress. In other cases, exposure to the metal manganese among those with working in the mining, welding, and steel industries has been associated with an increased risk of developing parkinsonism. They are found in the brain of almost every patient affected by PD, but whether the Lewy bodies themselves contribute to the death of neurons is still unclear.

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