



MOTOR • NEURONE DISEASE

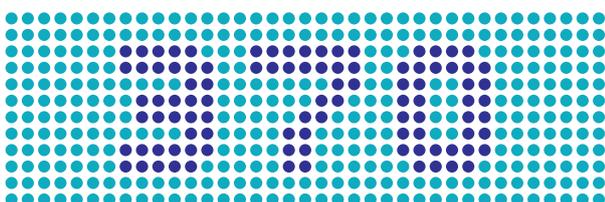
What is motor neurone disease?

Motor neurone disease occurs when neurons within the motor cortex region of the brain (upper motor neurons) and spinal cord (lower motor neurons) degenerate and die.

These upper and lower motor neurons are responsible for motor function—a person's ability to move, speak, breathe, walk or run. Without stimulation from the neurons (nerves) they are connected to, muscles around the body become weaker and waste away.

People with the condition have trouble walking, breathing, swallowing, difficulty with speech, or holding objects. They can also suffer from cramps or muscle twitching. Malnutrition and respiratory failure are major problems that result from motor neurone disease.

Around 370 people are diagnosed with motor neurone disease each year in Australia.



Motor neurone disease can affect the upper motor neurons only, the lower motor neurons only, or both. It does not affect the sensory neurons—a person's ability to see, touch, smell, hear and taste is not affected. However, the condition can cause changes in the frontal or temporal lobes of the brain, which affect a person's language, behaviour, personality and cognitive ability.

Although some symptoms of motor neurone disease can be treated, it is still incurable. It is a progressive degenerative condition. Most people with the condition live for 1–5 years after being diagnosed.

Around 2000 people in Australia have motor neurone disease.



