

#### Introduction

Multiple sclerosis is an autoimmune diseas that affect your brain, spinal cord(CNS system) It can cause problems with vision, balance, muscle control, and other basic body functions. The damage means your brain can't send signals through your body correctly. The cause of MS is still unknown **Scientists believe that a combination of** environmental and genetic factors contribu to the risk of developing MS. multiple sclerosis is actually not curable yet the symptoms and progression of the disease ca be managed through specific medications.

#### Mechanism

Multiple sclerosis is a cell mediated autoimmune reaction in which the myelin sheath components that protects the axons of the central nervous system gets attacked and destroyed by the body, this process is called demyelination.MS is characterized by sudde transient attacks as well as remyelination of the myelin sheath however, this differs from one case to another due to where the demyelination happens in the brain.

# Multiple Sclerosis (MS)

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	Symptoms		
ise	Depression	5-20	
ły	Vision problems		
vn. oute	Muscle-related symptoms		
can	<b>Cognitive dysfunction</b>		
•	Bladder and bowel symptom	S	
	Fatigue		
s of nd d	Vertigo		
den of m			

#### Treatment

There is no known cure for MS at this time. But, there are treatments that may slow the disease. The goal of treatment is to stop progression, control symptoms, and help the patient maintain a normal quality of life .

physical therapy learning how to save energy and find better ways to do everyday tasks. Physical therapy can also help you tackle fatigue, pain, and weakness

### Statistics

- □ The prevalence is approximately 1 per **1000 individuals in the United States** and Europe, and its incidence appears to be increasing.
- □ The disease may be present at any age, but onset in childhood or after 50 years of age is rare.
- □ Women are affected twice as often as men.

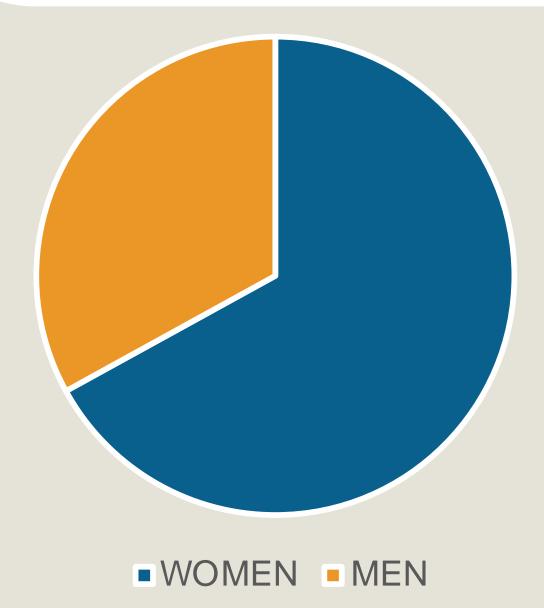
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https://www.verywellhealth.com/multiplesclerosis-symptoms-2440790



#### Summary

The immune system attacks the myelin causing the electrical signals to be weak/absent, it also has no cure but certain drugs can slow down the complications of the disease. Cases of MS are increasing every day, this is why raising awareness is crucial to hopefully find a cure.



#### References

https://medlineplus.gov/ency/article/000737.ht

#### Robbins Basic Pathology 10<sup>th</sup> edition

https://www.webmd.com/multiplesclerosis/multiple-sclerosis-physical-therapy