Published on SeniorNavigator (https://seniornavigator.org)

Spasticity: The Basics

What is Spasticity?

Spasticity is a condition in which there is an abnormal increase in muscle tone or stiffness of muscle, which might interfere with movement, speech, or be associated with discomfort or pain. Spasticity is usually caused by damage to nerve pathways within the brain or spinal cord that control muscle movement. It may occur in association with spinal cord injury, multiple sclerosis, cerebral palsy, stroke, brain or head trauma, amyotrophic lateral sclerosis, hereditary spastic paraplegias, and metabolic diseases such as adrenoleukodystrophy, phenylketonuria, and Krabbe disease.

Symptoms may include hypertonicity (increased muscle tone), clonus (a series of rapid muscle contractions), exaggerated deep tendon reflexes, muscle spasms, scissoring (involuntary crossing of the legs), and fixed joints (contractures). The degree of spasticity varies from mild muscle stiffness to severe, painful, and uncontrollable muscle spasms. Spasticity can interfere with rehabilitation in patients with certain disorders, and often interferes with daily activities.

Is there any treatment?

Treatment may include such medications as baclofen, diazepam, tizanidine or clonazepam. Physical therapy regimens may include muscle stretching and range of motion exercises to help prevent shrinkage or shortening of muscles and to reduce the severity of symptoms. Targeted injection of botulinum toxin into muscles with the most tome can help to selectively weaken these muscles to improve range of motion and function. Surgery may be recommended for tendon release or to sever the nerve-muscle pathway.

What is the prognosis?

The prognosis for those with spasticity depends on the severity of the spasticity and the associated disorder(s).

What research is being done?

The NINDS supports research on brain and spinal cord disorders that can cause spasticity. The goals of this research are to increase scientific understanding about these disorders and to find ways to prevent, treat, and cure them.

Information from the National Library of Medicine's MedlinePlus --

Neuromuscular Disorder

Organizations

Easter Seals

141 Jackson Highway Suite 1400A Chicago, IL 60604

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https://www.easterseals.com

Tel: 800-221-6827

March of Dimes

1550 Crystal Drive, Suite 1300 Arlington, VA 22202 askus@marchofdimes.com https://www.marchofdimes.org

Tel: 888-MODIMES (663-4637)

National Multiple Sclerosis Society

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3rd Floor
New York, NY 10017-3288
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https://www.nationalmssociety.org

Tel: 800-FIGHT-MS (800-344-4867)

United Cerebral Palsy (UCP)

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Article Source
National Institute of Neurological Disorders and Stroke
Source URL
https://www.ninds.nih.gov
Last Reviewed
Wednesday, September 9, 2020