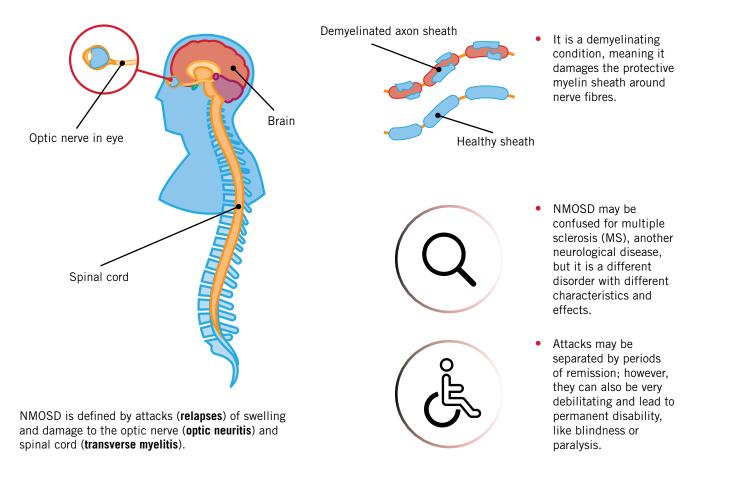
# KNOW MORE ABOUT NEUROMYELITIS OPTICA SPECTRUM DISORDER (NMOSD)



# **KNOW ABOUT NMOSD**

# NMOSD IS A RARE, CHRONIC DISORDER THAT OCCURS WHEN YOUR IMMUNE SYSTEM ATTACKS THE CELLS IN YOUR CENTRAL NERVOUS SYSTEM

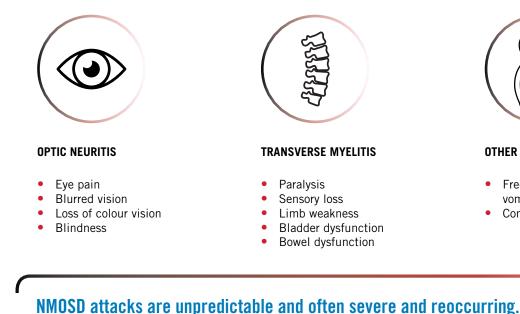
### The central nervous system



+90% OF PATIENTS EXPERIENCE REOCCURRING ATTACKS WITHIN 5 YEARS. 60% OF PATIENTS HAVE A RELAPSE WITHIN A YEAR OF THEIR FIRST ATTACK. **90%** OF PATIENTS HAVE A RELAPSE WITHIN 3 YEARS OF THEIR FIRST ATTACK.

Attacks can result in permanent disability with devastating consequences, like blindness, paralysis, and death.

# ALTHOUGH THE SYMPTOMS OF AN NMOSD ATTACK MAY VARY FROM PERSON TO PERSON, THEY OFTEN FALL INTO THE FOLLOWING CATEGORIES:



I've lost so much to this condition. I don't know what the next relapse will do to me.

— Patient living with NMOSD

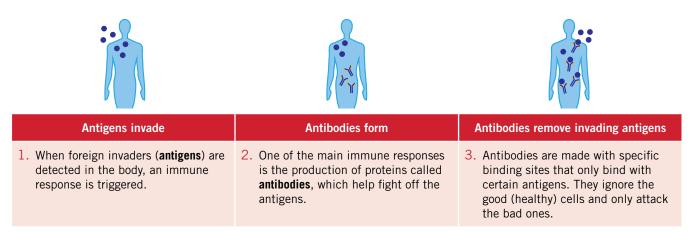




**OTHER SYMPTOMS** 

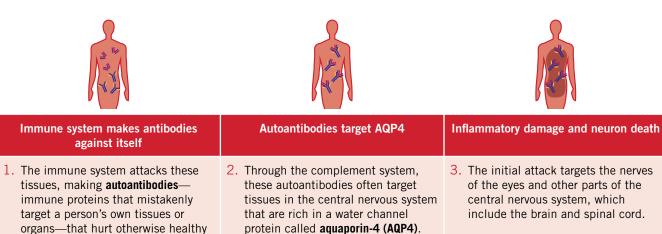
- Frequent nausea and vomiting
- Constant hiccups

Normally, your immune system targets and attacks **invading** organisms, like bacteria and viruses:



The **complement system** is another part of the immune system that helps (complements) the immune system to detect, destroy, and remove invaders and/or damaged cells.

In NMOSD, the immune system mistakes normal tissues of the central nervous system as foreign:



## AUTOANTIBODIES TO AQP4 CAN BE USED TO DIAGNOSE NMOSD

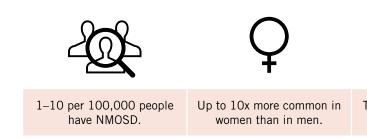
Autoantibodies for AQP4 can be found in the blood of people with NMOSD and can be used to diagnose and monitor the disease.

• ~73% of people with NMOSD have AQP4 autoantibodies present.

Ask your doctor about your antibody status.

parts of the central nervous system.

## **WHO IS AFFECTED?**



# LIVING WITH NMOSD

Living with NMOSD can be challenging for you and those you love. Here are some steps you can take to help yourself:



- Exercise (like yoga) can help with maintaining and restoring flexibility, movement, and strength.
- Talk to your healthcare provider about an appropriate level and form of physical exercise.





Try to get a decent night's sleep and take rests to reduce fatigue.





Plan out tasks so they are easier to perform. Consider things like menu planning and spreading out your chores.



The stress of NMOSD can take a toll on your mental health. Talking to a mental health professional may help.



Consult your doctor or a neurologist to learn about treatment options for NMOSD.



The average age of onset is around 40 years old.



NMOSD is not believed to be hereditary.



• Talk to your healthcare provider about things you can do to manage bladder or bowel problems.



• Family education is also recommended to help your loved ones understand your challenges with living with NMOSD.



Talk to your doctor about working with an occupational or physical therapist to help you address your NMOSD symptoms.



See the resources at the end of this brochure to learn more about support groups.

# **NMOSD GLOSSARY**

# **NOTES:**

#### Antibodies:

Proteins made by the immune system that recognize and destroy potential threats (such as bacteria) and prevent them from causing harm.

#### Antigens:

Foreign invaders (such as bacteria) that are recognized and targeted by the immune system.

### Aquaporin-4 (AQP4):

A water channel protein found in central nervous system tissues (brain and spinal cord) that moves water in and out of cells.

#### Autoantibodies:

Antibodies made by the immune system that target normal body tissue.

#### Central nervous system:

The system made up of your brain and spinal cord that gathers information from your body and controls activity.

#### **Complement system:**

A part of the immune system that helps antibodies and other immune cells by damaging potential threats to the body.

#### Immune system:

A system of the body that detects and fights threats to the body's health.

#### **Optic neuritis:**

Damage to the optic nerve due to inflammation. The optic nerve transfers visual information from the eye to the brain.

### **Relapse:**

A repeat NMOSD attack, a sudden onset of symptoms that can worsen over time.

### Transverse myelitis:

Damage to a section of the spinal cord due to inflammation. The spinal cord helps transfer information between your brain and other parts of your body (such as your limbs and digestive system).

Use this section to record information from your healthcare provider, track your symptoms, or take any other notes you might find useful.


# KNOW WHERE TO GO FOR MORE INFORMATION

## **CANADIAN RESOURCES WITH DIRECT SUPPORT FOR PATIENTS WITH NMOSD:**

#### **Multiple Sclerosis Society of Canada**

The Multiple Sclerosis Society of Canada provides information, support and advocacy to people affected by MS, and funds research to find the cause and cure for the disease. The MS Society of Canada also provides information and support to people affected by NMOSD: mssociety.ca

#### **Canadian Organization for Rare Disorders (CORD)**

A national network for organizations representing all those with rare disorders. CORD provides a strong common voice to support health policy and a healthcare system that works for those with rare disorders such as NMOSD: **raredisorders.ca** 

### FOR MORE INFORMATION ON NMOSD:

#### The Guthy-Jackson Charitable Foundation

An organization dedicated to funding research and providing resources for patients with NMOSD.

Access information about NMOSD, patient resources, FAQs, and support groups: guthyjacksonfoundation.org

