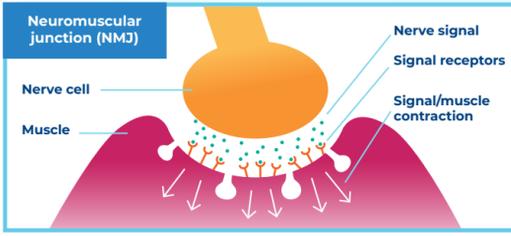
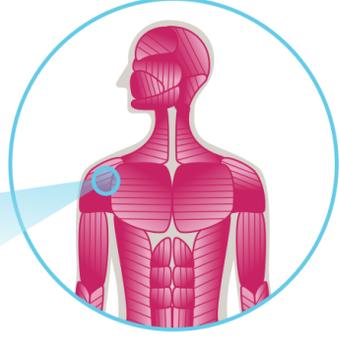


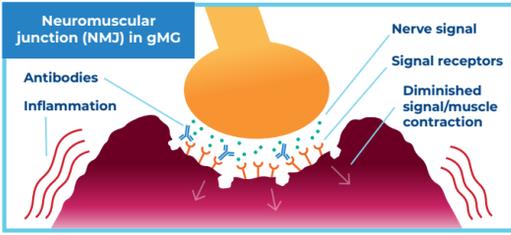
# Generalized myasthenia gravis (gMG)

## WHAT IS GENERALIZED MYASTHENIA GRAVIS?

Generalized myasthenia gravis (gMG) is a **rare autoimmune disorder** characterized by loss of muscle function and severe muscle weakness.<sup>1</sup>



The **neuromuscular junction (NMJ)** is the connection point between **nerve cells** and the **muscles** they control.<sup>1</sup>



**80% of people with gMG are AChR+**, meaning they produce specific antibodies (anti-AChR) that bind to signal receptors at the NMJ. This binding activates the **complement system**, causing the immune system to attack the NMJ. This leads to inflammation and a **breakdown in communication** between the **brain** and the **muscles**.<sup>1-4</sup>

Diagnosed prevalence of gMG in adults



~90K<sup>5</sup>



~89K<sup>5</sup>



~24K<sup>6</sup>

Most commonly begins for **women before the age of 40** and for **men after the age of 60**.<sup>7-9</sup>



Initial symptoms may include<sup>10,11</sup>



Slurred speech



Double vision



Droopy eyelids



Lack of balance

which can often lead to more severe symptoms as the disease progresses<sup>10,11</sup>



Impaired swallowing



Choking



Extreme fatigue



Respiratory failure

## HOW IS gMG DIAGNOSED?<sup>10</sup>

gMG is typically diagnosed with a **physical examination** to evaluate muscle function.



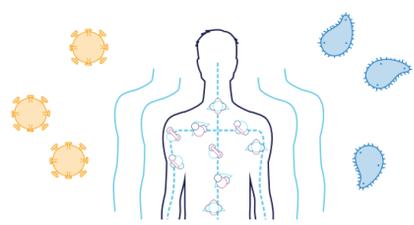
**Blood tests for certain antibodies**, including anti-acetylcholine receptor (anti-AChR), are also used



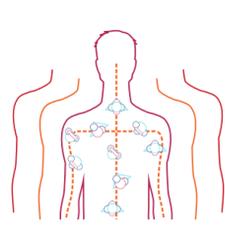
as well as **nerve and muscle stimulation** and **chest computed tomography** or **magnetic resonance imaging (MRI)**.



## THE COMPLEMENT SYSTEM



The complement system is a part of the immune system and is **essential to the body's defense against infection**.<sup>12</sup>



When the system is **thrown out of balance**, or **dysregulated**, these proteins can **trigger a dangerous, uncontrolled cascade of reactions** that attack cells and tissues resulting in **harmful inflammation** and the **destruction of healthy cells**.<sup>13</sup>

## WHAT ROLE DOES COMPLEMENT INHIBITION PLAY IN TREATING gMG?



Alexion's clinical studies in gMG have shown that **inhibiting the complement system** (by blocking the C5 protein) prevents the body's attack on the NMJ.

This **reduces the damage** and helps prevent the breakdown in communication between the brain and the muscles.

**Alexion's leadership in complement inhibition** has set the course for the continued study and development of innovative treatments for certain rare complement-mediated neurological diseases, including gMG.

## WHAT TREATMENT APPROACH IS BEING STUDIED BY ALEXION?



In addition to **our development of therapies that are approved for adults with gMG who are AChR antibody positive**, we continue to advance research and other clinical trial programs in the disease.



We remain focused on **accelerating the discovery and development of new, life-changing therapies** for people living with gMG.

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