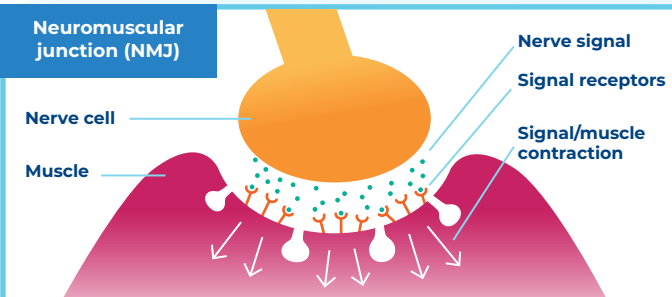
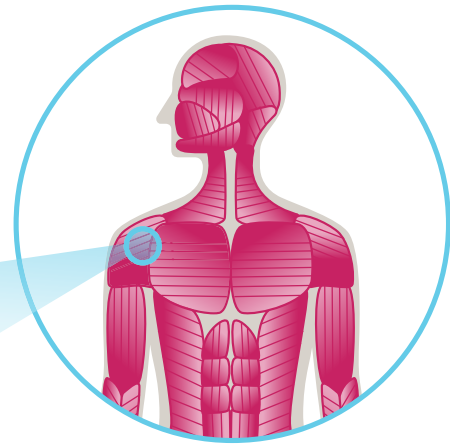


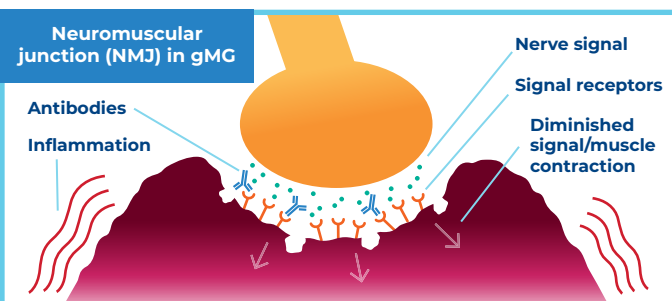
Generalised Myasthenia Gravis (gMG)

WHAT IS GENERALISED MYASTHENIA GRAVIS?

Generalised myasthenia gravis (gMG) is a **rare autoimmune disorder** characterised by loss of muscle function and severe muscle weakness.¹

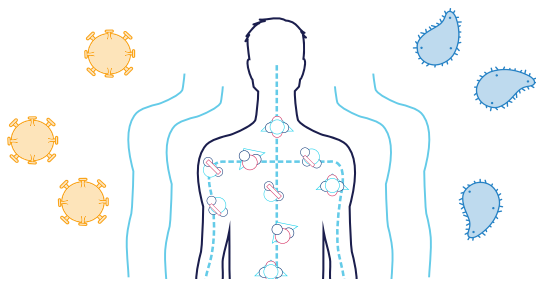


The **neuromuscular junction (NMJ)** is the connection point between **nerve cells** and the **muscles** they control.²

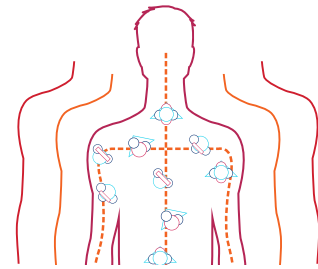


85% of people with gMG are AChR+, meaning they produce specific antibodies (anti-AChR) that bind to signal receptors at the NMJ. This binding activates the [complement system](#), causing the immune system to attack the NMJ. This leads to inflammation and a **breakdown in communication** between the **brain** and the **muscles**.²⁻⁴

THE COMPLEMENT SYSTEM



The complement system is a part of the immune system and is **essential to the body's defence against infection**.⁵



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**.⁵

Diagnosed prevalence of gMG in adults



Most commonly begins for **women before the age of 40** and for **men after the age of 60**.⁷



Initial symptoms may include^{8,9}



which can often lead to more severe symptoms as the disease progresses



HOW IS gMG DIAGNOSED?⁹⁻¹¹

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)**.



Content created by Alexion, AstraZeneca Rare Disease

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