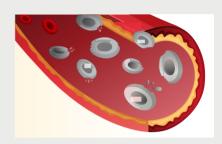
The Science behind Paroxysmal Nocturnal Haemoglobinuria

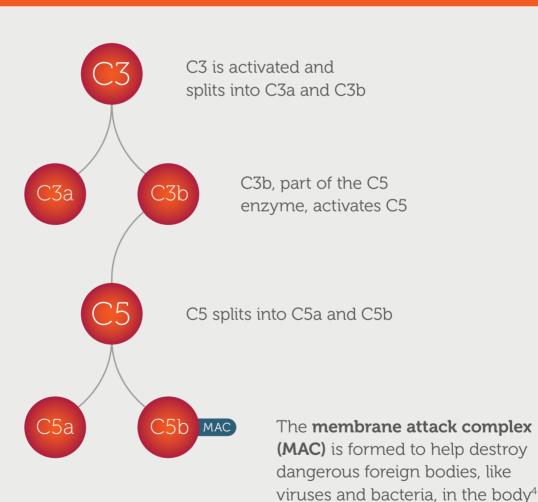
Paroxysmal nocturnal haemoglobinuria (PNH) is a potentially life-threatening bone marrow disease which has significant effects on patients physically, mentally and emotionally.¹

PNH is **chronic** and **acquired**, caused by mutations in the **bone marrow stem cells**. In people with PNH, the body 'breaks apart' its own red blood cells because they are missing important protective proteins.¹





The 'breaking apart' of these red blood cells is known as **haemolysis**. It occurs after a cascade of activity is started within the **complement system**, which is a **complex immune surveillance** system made up of multiple protective proteins that helps destroy dangerous toxins, **viruses or bacteria**, and gets rid of damaged or dying cells. Due to the missing protection, haemolysis can occur uncontrolled in people with PNH.^{2,3}



Striving to help

PNH is a relatively unknown condition with symptoms that can make daily life challenging, and is associated with many serious and potentially fatal complications.³

Sobi is striving to help patients manage their disease and overall, improve their quality of life. For more information, visit my-PNH.com.

References:

1. Mitchell R, et al. Path to diagnosis of paroxysmal nocturnal hemoglobinuria: the results of an exploratory study conducted by the aplastic anemia and MDS international foundation and the national organization for rare disorders utilizing an internet-based survey. *SM Clin Med Oncol.* 2017;1(1):1001. 2. Devos T, et al. Diagnosis and management of PNH: Review and recommendations from a Belgian expert panel. *Eur J Haematol.* 2018;101:737–749. 3. Brodsky RA. Paroxysmal nocturnal hemoglobinuria. *Blood.* 2014;124(18):2804–2811. 4. Merle NS, et al. Complement System Part I – Molecular Mechanisms of Activation and Regulation. *Front Immunol.* 2015;6:262.

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