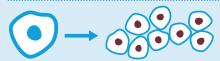
# Waldenström's Macroglobulinemia (WM)

## What is Waldenström's Macroglobulinemia? 1,2,3,4

Waldenström's macroglobulinemia (WM), pronounced 'val-den-strem', is named after Swedish physician Jan Gösta Waldenström, who first described the disease's clinical features. It is a slow-growing and rare type of blood cancer that originates from B cells, a type of white blood cell (lymphocyte) that develops in the bone marrow.



B cells are part of the immune system and play an important role in fighting infection in the body.

B-cell malignancies, such as WM, are the result of a malfunction in the healthy lifecycle of a B cell. The malfunction causes the cell to become malignant and reproduce at an abnormal rate.

In certain malignant B cells there is a malfunction in the cellular signaling pathways which control tumour cell growth and survival. In addition, abnormal movement and adhesion cause the malignant B cells to congregate within the protective environment of the lymphatic system, such as the bone marrow and the lymph nodes. In this environment, the malignant cells are supported and continue to grow. The overcrowding in the bone marrow can hamper the normal production and function of red blood cells, platelets and white blood cells. Overcrowding the lymph nodes, spleen and liver can result in their enlargement.

A unique characteristic of WM is that the malignant B cells produce large amounts of an abnormal type of antibody protein called immunoglobulin M (IqM). Antibodies such as IqM normally help the body to fight infection. Excess IqM causes the blood to thicken and causes many of the symptoms of WM.

## Signs and Symptoms 3,5

Possible signs of WM may include:



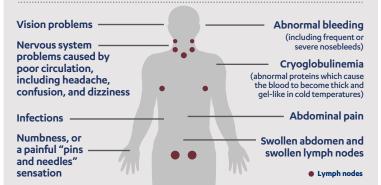
**Excessive** sweating at night, recurring fevers



Unintentional weight loss



Anaemia. which may cause tiredness, weakness. and shortness of breath



## Prevalence and Patients 3,6,7,8,9,10



Incidence rates among men and women in Europe are approximately

The median age at diagnosis is

years of age

Median overall survival rate

vears

For more information on disease burden and prevalence please visit www.diseaselens.com

## Diagnosis 3,4

Several exams and tests may be used to help diagnose WM:



**Physical** 





**Imaging** 



**Biopsy** 

### Staging and Prognosis<sup>3</sup>

The International Prognostic Scoring System for WM (IPSSWM) is used to help predict the prognosis for patients with WM.



This system divides patients into low, intermediate, or high risk groups, and accounts for factors that may predict worse outcomes, such as:

 Low haemoglobin levels
 Low platelet count Elevated IqM levels • High beta-2-microglobulin

#### Treatment 3,5

Current options for WM vary depending on the patient's prognosis, age and general health.

Treatments and outcomes have improved in recent years and many promising new therapies are currently being researched.





Chemotherapy



**Biologic** 



**Plasmapheresis** 



Stem cell transplant therapy



Radiotherapy



Small molecule



People impacted by blood cancer need more than treatment and care. To improve awareness and further support patients and their families, Janssen has launched 'Make Blood Cancer Visible' - a campaign to get people talking about blood cancers and bring forward patient perspectives.

#LETSTALKABOUTBLOODCANCER visit www.facebook.com/letstalkaboutbloodcancer



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