

Myelofibrosis

Myelofibrosis is a rare but serious cancer of the bone marrow that disrupts the body’s normal production of blood cells.

About myelofibrosis

Myelofibrosis is a myeloproliferative neoplasm (MPN), a group of blood cancers that derive from blood-forming stem cells. Two other blood cancers that are also grouped as MPNs are essential thrombocythemia and polycythemia vera.

There are two main types of myelofibrosis:

1

Primary myelofibrosis:
Patient has no prior history of another MPN

2

Secondary myelofibrosis:
Patient develops the condition as a complication of essential thrombocythemia or polycythemia vera

The cause of myelofibrosis remains unclear, but more than half of patients have a mutation in the Janus Kinase 2 (JAK2) gene.

Incidence

Median age at diagnosis:

65

Primary myelofibrosis is rare, affecting approximately **1 in 500,000** people worldwide

Risk factors



Age



History of thrombocythemia or polycythemia vera



Exposure to certain industrial chemicals or high radiation levels

Symptoms

About one-third of patients with myelofibrosis in its very early stages may have no symptoms of the disease.

Signs and symptoms of myelofibrosis can include:

 Fatigue/weakness

 Shortness of breath

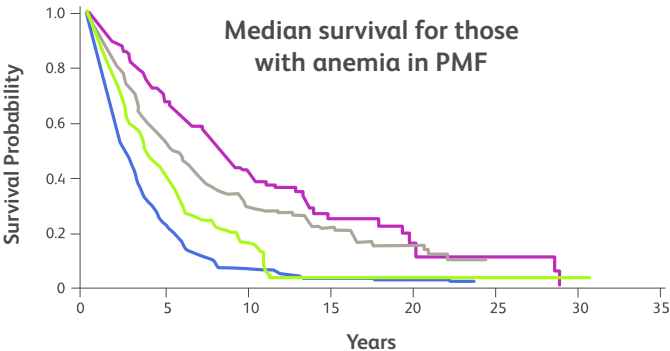
 Chest pains

 Palpitations

 Pallor or pale skin

 Loss of appetite

Prognosis



Median survival for those with anemia in PMF

7.9 years	4.9 years
in patients with no anemia	in patients with mild anemia (Hb ≥10 g/dL)
3.4 years	2.1 years
in patients with moderate anemia (Hb ≥8 and <10 g/dL)	in patients with severe anemia (Hb <8 g/dL or transfusion dependent)

Treatment options

Treatment approaches for myelofibrosis are determined by age, abnormal blood cell counts, disease progression and overall health, but may include:

 JAK inhibitors

 Blood transfusions, androgen therapy or other anemia treatments

 Splenectomy (surgical removal of the spleen)

 Stem cell transplant*

*Typically appropriate for <5% of patients due to risks associated with the procedure

It is important for people with myelofibrosis to understand the symptoms of their disease and to talk to a healthcare professional about appropriate treatment options.

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