Multiple Myeloma

Multiple myeloma is a blood cancer formed by malignant plasma cells and typically originates in the bone marrow.

What is Multiple Myeloma?

Normal plasma cells are found in the bone marrow and are an important part of the immune system. Through a complex, multi-step process, healthy plasma cells can transform into malignant myeloma cells.

Myeloma cells then produce abnormal antibodies, or M proteins, at a rapid rate that crowd out other important blood cells. A high level of M protein in the blood is the hallmark characteristic of multiple myeloma.

Multiple myeloma typically occurs in bone marrow in the spine, pelvic bones, ribs and areas of the shoulders and hips.

275,000+ new cases of multiple myeloma are expected to occur globally in 2040.

Risk Factors

The cause of multiple myeloma is not known but it may be more common in:

- People who are overweight or obese
- People with a sibling or parent who has had multiple myeloma
- People with other plasma cell diseases

Some people with multiple myeloma have no signs or symptoms at all, but symptoms of multiple myeloma may include:

- Bone Pain or Bone Fractures
- Weakness
- Infections
- Increased Thirst
- Loss of Appetite and Weight Loss
- Nerve Damage
- Impaired Kidney Function

Signs & Symptoms

Eating Healthy

People 65+

Males

People 65+

People with other plasma cell diseases

Fewer than 1% of cases are diagnosed in people younger than 35

2× African Americans

Multiple myeloma is more than twice as common in African Americans than in white Americans

Treatment Options

A patient’s treatment options depend on the stage of their multiple myeloma, but may include:

- Drug Therapy
- Immunotherapy
- Radiation
- Surgery
- Stem Cell Transplant
- Bisphosphonates
- Plasmapheresis