When to ORDER SPEP and how to INTERPRET RESULTS

WHEN TO ORDER AN SPEP:

- Unexplained anemia, back pain
- •Osteopenia, osteolytic lesions, spontaneous fractures
- •Renal insufficiency with bland urinary sediment •Immunoglobulin deficiency
- Heavy proteinuria or Bence Jones proteinuria
- Hypercalcemia with normal PTH

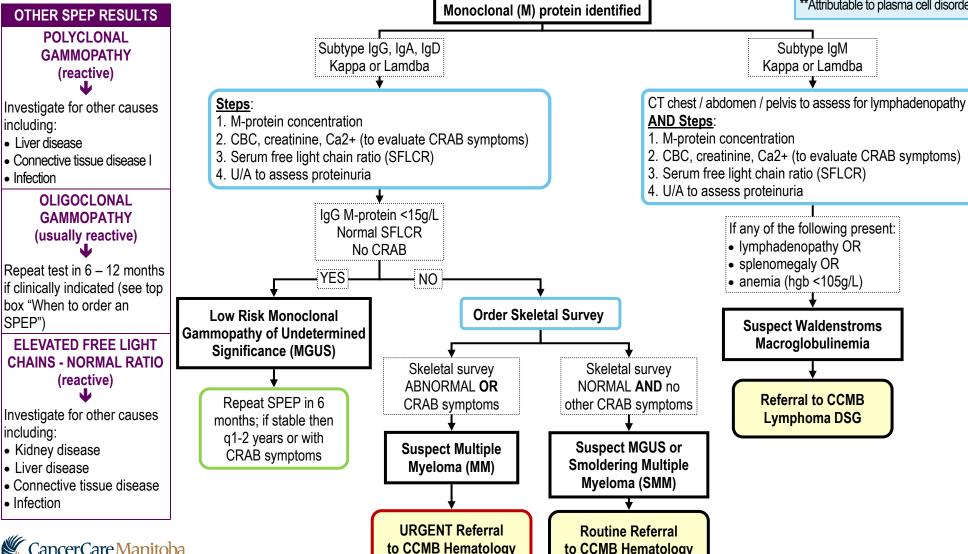
If clinical suspicion remains high for plasma cell disorder and SPEP is negative \rightarrow obtain serum free light chain ratio (SFLCR)

- Hypergammaglobulinemia

- Unexplained peripheral neuropathy
- Recurrent infections
- Elevated ESR or serum viscosity
- Peripheral blood smear showing rouleaux

CRAB SYMPTOMS:**

- C Ca2 + > 2.8
- **R** creatinine >177 umol/L or GFR <40mL per min
- A hemoglobin <100g/L or 20g/L below normal
- **B** lytic lesions
- **Attributable to plasma cell disorder



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