# **Best Practice Guideline**

# I. Monclonal Gammopathy of Undetermined Significance

### II. <u>Disease and Diagnosis:</u>

Most identified as incidental SPEP finding, i.e.) workup of peripheral neuropathy, vasculitis, hemolytic anemia, skin rashes, hypercalcemia, elevated ESR.

MGUS defined as:		
M-protein <3.0g/dL		
<10% plasma cells on marrow		
No CRAB features		
(>10% marrow plasma cells and/or M-protein >3.0g/dL = Smoldering Myeloma)		

Incidence is 5% in pts >70y.o, 9% in men>85, and twice as frequent in AA vs Caucasians

## III. Prognostic Markers:

Risk of progression to overt MM is 0.25% to 3% per year - varies with risk-stratified subtype:

Predictors of progression	Low Risk	Intermediate and High Risk (1 or 2, and 3 risk factors, respectively)
Size of M-protein*	<1.5g/dL	(>1.5g.dL)
M-protein	IgG type	Non-IgG type (IgM/IgA)
SFLC ratio	Normal	<0.66 or >2.75

<sup>\*</sup>most significant prognostic determinant of risk of progression.

# IV. <u>Surveillance/Follow-Up Strategies:</u>

Initial

If not already done:

CBC, Serum Creatinine,

Serum calcium,

Quantitative

immunoglobulins, SFLC

H&P w focus on s/s of MM or AL amyloid: (Bone pain, B-symptoms, Bleeding, Neuropathy, Macroglossia, HSM).

Skeletal survey and bone marrow biopsy are not routinely indicated if otherwise asymptomatic.

#### In Addition:

- Consider bone marrow biopsy: -renal dysfunction, cytopenias, changes in disease tempo
- Skeletal survey
- If IgM: obtain CT abdomen to look for occult retroperitoneal lymphadenopathy.
- urine studies for protein/bence jones/UPEP

**Follow Up** 

Repeat SPEP, Immunoglobulins, SFLC in 6months.

Then Q yearly x 2.

If no change, then refer back to PMD with monitoring

parameters: ie) reconsult for M-spike

increase by 50% or new CRAB features.

→ If results negative for MM or WM, repeat CBC, Cr, Calcium, Immunoglobulins, SFLC Q3-6months.

(depending on risk factors)

### V. <u>Considerations:</u>

- Peripheral blood flow cytometry not helpful. (flow data more relevant on marrow)
- Higher risk groups: African American, Agricultural workers, Obese. Consider shorter interval follow up for intermediate and high risk patients.
- Increased risk of osteoporosis, thromboembolic events, and secondary malignancies:
  - o Obtain DEXA and age appropriate screening. No indication for routine VTE prophylaxis.

#### References:

KYLE RA, DURIE BG, RAJKUMAR SV, et al. Monoclonal gammopathy of undetermined significance (MGUS) and smoldering (asymptomatic) multiple myeloma: IMWG consensus perspectives risk factors for progression and guidelines for monitoring and management. *Leukemia*. 2010;24(6):1121.

KYLE RA, BUADI FI, RAJKUMAR SV. Management of Monoclonal Gammopathy of Undetermined Significance (MGUS) and Smoldering Multiple Myeloma (SMM). *Oncology (Williston Park, NY)*. 2011;25(7):578-586.