Treatment of Waldenström's Macroglobulinemia Mayo Consensus



Scottsdale, Arizona



Rochester, Minnesota



Jacksonville, Florida

Mayo Clinic College of Medicine Mayo Clinic Comprehensive Cancer Center





Mayo Clinic Consensus for Newly Diagnosed Waldenström's Macroglobulinemia

- Waldenstrom Macroglobulinemia (WM) is a B-cell lymphoproliferative disorder (LPD) characterized by lymphoplasmacytic infiltration of marrow and/or lymphatic tissue <u>and monoclonal immunoglobulin M protein in the serum.</u>
- For the diagnosis of <u>smoldering WM</u>, the Mayo Clinic criteria require marrow infiltration by ≥ 10% clonal lymphoplasmacytic cells <u>and/or</u> IgM monoclonal protein of ≥ 3g/dL <u>and</u> absence of end-organ damage/symptoms attributable to LPD.
- WM remains an incurable disease with the currently available therapies.
- Treatment is evolving rapidly as more effective agents and combinations become available.
- mSMART is a consensus opinion that takes into account the specific indications for treatment and the currently available therapeutic options.
- The general approach is presented here (mSMART off-study). However, clinical trials must be considered and are preferred at every level.
- We recommend that all patients with newly diagnosed WM be seen at least once at a referral center with expertise in the management of this rare disease.
- v4 //last reviewed Apr 2015



mSMART for WM

- In cases of suspected lymphoplasmacytic lymphoma that are histopathologically difficult to interpret, we recommend checking MYD88 L265P mutation status by allelespecific polymerase-chain-reaction (AS-PCR) assay.
- In addition to performing a bone marrow (± lymph node/involved tissue) biopsy and monoclonal protein studies at diagnosis, we check CBC, liver function tests, creatinine, serum beta 2 microglobulin, lactate dehydrogenase, computerized tomography (CT) of chest, abdomen and pelvis <u>or</u> a combined 18F-FDG positron emission tomography (PET)/CT scan for assessment of lymphadenopathy, extramedullary disease /organomegaly.
- Cryocrit, serum viscosity, Coombs test /cold autoantibody, electromyogram and hepatitis C profile may be checked depending on the presenting signs/symptoms.
- If coexisting AL-Amyloidosis is suspected, NT-pro BNP, troponin T, echocardiogram with strain imaging, coagulation parameters and a fat aspirate to detect amyloid material should be performed.
- Fundoscopic examination is recommended in all patients with visual disturbance, hyperviscosity symptoms and/or IgM ≥3000 mg/dL.
- Clinicians should be aware of rituximab-induced IgM flare, the delay in achieving maximal response post-therapy as well as the discordance between the monoclonal protein and bone-marrow response states with certain therapies (e.g. ibrutinib, everolimus).

MAYO CLINIC

Consensus for Newly Diagnosed Waldenström Macroglobulinemia



*Dexamethasone + Rituximab +Cyclophosphamide (DRC) x 6 cycles is an alternative if the disease burden is low v4 Revised April 2015



*If not previously used.

For multiply relapsed or refractory disease, in addition to the regimens listed above, consider nucleoside analog (cladribine or fludarabine)-based regimens or everolimus as alternatives. DRC = Dexamethasone + Rituximab + Cyclophosphamide; BR = Bendamustine + Rituximab; BDR = Bortezomib (weekly), Dexamethasone + Rituximab; PN= peripheral neuropathy