Consolidation and Maintenance in Newly Diagnosed Symptomatic Multiple Myeloma

Pr Philippe Moreau Nantes, France







Clinical outcome according to tumor burden by quantitative polymerase chain reaction

 Progression-free survival is superior with low vs high tumor burden

- After 2 courses of VTD (P = .018)
- At the end of consolidation (P < .001)
- At 6-month follow-up (P = .016)

Ladetto M, et al. J Clin Oncol. 2010;28:2077-2084.

IMWG 2009, Washington

<u>Stringent CR</u>: The panel approved an update to the definition of stringent CR in the IMWG criteria to require negative clonal cells by multiparametric flow cytometry (with \geq 4 colors). Stringent CR is defined as CR plus absence of phenotypically aberrant PC in bone marrow with a minimum of 3000 total PC analyzed by multiparametric flow cytometry ("immunophenotypic CR")

Rajkumar SV, et al. XII IMW. 2009.

IMWG 2009, Washington

Molecular CR: The panel approved a definition of molecular CR to be incorporated into the

IMWG criteria. Molecular CR is defined as stringent CR plus negative ASO-PCR (sensitivity 10⁻

5)

Rajkumar SV, et al. XII IMW. 2009.



Mellqvist U-H, et al. ASH 2009. Abstract 530.

What is the best consolidation after ASCT?

→ BMT-CTN study!



Clinical Trials.gov. NCT01109004.



CALGB 100104: Lenalidomide as Maintenance Therapy After ASCT for MM

Ongoing phase III, randomized, placebo-controlled trial





Primary end-point: time to disease progression after autologous ASCT Secondary end-points: CR rate, PFS, OS, and feasibility of long-term lenalidomide

Trial NCT00114101. Available from: www.ClinicalTrials.gov.

CALGB 100104

- CALGB 100104: lenalidomide vs placebo as maintenance therapy following ASCT in myeloma
 - Phase III study
 - N = 418 patients
- Time to progression
 - Lenalidomide: median not yet reached
 - Placebo: median 25.5 months
- Overall survival
 - Follow-up not long enough to determine if there is a difference in OS
 - 11 deaths in lenalidomide arm vs 17 in placebo arm (P < .20)



Maintenance in elderly patients



Mateos MV, et al. Lancet Oncol. 2010;11:934-941.

Toxicity Profile During Maintenance Therapy

- •VP: n = 87 / VT: n = 91)
- •Hematologic toxicity (grades 1-2)
 - Anemia, neutropenia, thrombocytopenia in < 5% of patients receiving either VP or VT (P = .8)
- Nonhematologic toxicity (grades 3-4)
 - Discontinuations due to AEs: 8% with VT vs 5% with VP (P = .60)
 - Peripheral neuropathy: 7% with VT vs 2% with VP (P = .60)
 - GI toxicity: 4% with VT vs 1% with VP (P = .60)

Mateos MV, et al. Lancet Oncol. 2010;11:934-941.

VMP vs VTP

Median PFS
VMP: 34 months
VTP: 25 months

•3-year OS •VMP: 74% •VTP: 65%















Conclusions

- Consolidation therapy following ASCT is under evaluation in clinical trials. Possible to achieve molecular CR.
- Maintenance therapy following ASCT is feasible and prolongs PFS. Impact on overall survival?
- Maintenance therapy following combination chemotherapy in elderly patients is feasible and prolongs PFS. Impact on overall survival?