TRANSFORM MYELOMA Achieving MRD Negativity May Mitigate Poor Prognosis in Myeloma Patients With High-Risk Cytogenetics^{1,2}

In multiple myeloma, high-risk cytogenetics are associated with poor survival.³

While patients with standard-risk and high-risk cytogenetics see similar CR rates, high-risk patients have shorter PFS and OS.^{1,3}

MRD has emerged as a more sensitive measure than standard response criteria. Among patients who have achieved CR, assessing MRD status can help identify patients who are at greater risk for earlier relapse.^{4,5}

Aiming for MRD negativity in all patients may be a viable approach for improving long-term outcomes, including for patients with high-risk cytogenetics^{1,5}

For patients with persistent MRD, or those who revert from MRD- to MRD+, **early therapeutic intervention may be critical**⁶

Patients with high-risk cytogenetics who achieve MRD- may have comparable outcomes to standard-risk patients¹

A recent study of patients with transplant-eligible NDMM explored the long-term outcomes of patients according to their MRD and cytogenetic risk status.¹*

3-YEAR OS RATES BY MRD AND CYTOGENETIC RISK STATUS¹



- While fewer high-risk patients achieved MRD- compared with standard-risk patients (37% vs 49%, respectively), those who did had similar OS to standard-risk patients¹
- Among patients who were MRD+, standard-risk patients had better outcomes compared with high-risk patients, despite a lack of difference in the number of residual cells between both groups. This suggests a different mechanism of resistance between standard- and high-risk patients¹

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*High-risk defined by FISH as a patient having 1 of the following abnormalities: t(4;14), t(14;16), t(14;20), or loss of the p53 gene locus (del 17p or monosomy 17).³ CR=complete response; FISH=fluorescence in situ hybridisation; MRD=minimal residual disease; MRD-=minimal residual disease negative/negativity; MRD+=minimal residual disease positive/positivity; NDMM=newly diagnosed multiple myeloma; OS=overall survival; PFS=progression-free survival.

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