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Contributions: AT performed the majority of the experimental work in this study, analyzed data and contributed to the writing of the manuscript; GB, DAM, D-KK, MO, and DS, performed experiments or provided important tools for this study; HK and MC organized patients' visits and provided patients' bone marrow aspirates; DDM contributed to the intellectual content and writing of the manuscript; AO designed and supervised the study, interpreted data and wrote the manuscript. All authors critically revised and approved the manuscript.