

## **Continuing Medical Education (CME) Questions**

## Timing of allo-HCT in CMML

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Robin M, de Wreede LC, Padron E, Bakunina K, Fenaux P, Koster L, Nazha A, Beelen DW, Rampal RK, Sockel K, Komrokji RS, Gagelmann N, Eikema D-J, Radujkovic A, Finke J, Potter V, Killick SB, Legrand F, Solary E, Broom A, Garcia-Manero G, Rizzoli V, Hayden P, Patnaik MM, Onida F, Yakoub-Agha I, Itzykson R. Role of allogeneic transplantation in chronic myelomonocytic leukemia: an international collaborative analysis. Blood. 2022;140(12): 1408-1418.

1.	stı	our patient is a 64-year-old man with chronic myelomonocytic leukemia (CMML). According to the retrospective conort Oudy by Robin and colleagues, which of the following statements about the association of allogeneic hematopoietic cell Outpansplantation (allo-HCT) and other factors with survival and other outcomes in CMML is correct?	
		In univariable analysis, patients with lower-risk CMML had 5-year overall survival (OS) of 20% (95% CI: 12, 33) with allo-HCT vs 42% (95% CI: 35, 49) without allo-HCT ( $P$ < .001)	
		In univariable analysis, higher-risk patients had significantly higher 5-year OS with allo-HCT than without allo-HCT	
		Posttransplant OS was significantly higher in patients transplanted from a human leukocyte antigen-matched donor than in patients transplanted with other donor types	
		In the International CMML Dataset cohort (censored at allo-HCT), 5-year cumulative incidences of acute myeloid leukemia (AML) did not differ between patients with lower and with higher CMML risk	
2.	of	According to the retrospective cohort study by Robin and colleagues, which of the following statements about the effect of timing of allo-HCT on the association of allo-HCT and other factors with survival and other outcomes in CMML is correct?	
		In multivariable analysis of lower-risk patients, performing allo-HCT before transformation to AML did not significantly affect risk for death within 2 years of transplantation	
		In multivariable analysis of higher-risk patients, allo-HCT significantly increased the risk for death by greater than threefold in the first 4 years after transplant	
		In multistate models, performing allo-HCT before AML transformation reduced OS in patients with lower-risk CMML	
		In multistate models, performing allo-HCT before AML transformation showed a survival benefit in women but not in men with higher-risk CMML	
3.		cording to the retrospective cohort study by Robin and colleagues, which of the following statements about clinical plications of the association of allo-HCT and other factors with survival and other outcomes in CMML is correct?	
		In the multistate model, men with higher-risk CMML benefit from allo-HCT only when transplant is delayed	
		The study proves that allo-HCT has a large survival benefit in patients who have transformed to AML	
		The findings suggest that transplantation should be delayed until transformation to AML occurs	
		Performing allo-HCT before transformation decreases life expectancy in lower-risk patients but may be considered in higher-risk patients	