

عنوان مقاله:

HLA-A Needs More Attention in Graft-Versus-Host Disease

محل انتشار:

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خلاصه مقاله:

Background and Aim: Class I human leukocyte antigens (HLAs) have an important role in many kinds of transplantation specially allogeneic hematopoietic stem cell transplantation (aHSCT) in which all major HLA-I members (HLA-A, -B, -C) must be matched between the donor and recipients. Due to the cost, routine HLA-typing is low resolution and despite the donor-recipient fully matched HLA-I, some post-aHSCT complication such as graft-versus-host disease might occur. In this study, we investigated the question that whether any matched HLA-I member has an association with GvHD. **Methods:** In this retrospective study, the data of low-resolution HLA-I typing of 190 patients who underwent aHSCT as well as their GvHD status were obtained from their clinical records. All patients received HLA-A, -B, -C fully matched hematopoietic stem cells. The association between the types of HLA-I with GvHD status of patients were analyzed using multivariate analysis. **Results:** Among the patients, only the patients with donor-recipient matched HLA-A*01 have significantly high rate of acute GvHD (aGvHD) (P value = 0.048, RR = 1.31) and significantly mortality rate (P value = 0.04, RR = 1.21). Other donor-recipient matched class-I HLAs have no significant association with aGvHD and mortality. None of HLA-I have a significant association with chronic GvHD. **Conclusion:** In accordance with the results, it seems that the HLA-A might be more important in post-aHSCT complications especially life-threatening aGvHD and should be typed with high-resolution methods.

کلمات کلیدی:

Human leukocyte antigen; HLA-I; GvHD; Mortality

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