

Continuing Medical Education (CME) Questions

Systematic review of TA-GVHD

To obtain credit, you should first read the journal article. After reading the article, you should be able to answer the following, related, multiple-choice questions. To complete the questions (with a minimum 75% passing score) and earn continuing medical education (CME) credit, please go to <http://www.medscape.org/journal/blood>. Credit cannot be obtained for tests completed on paper, although you may use the worksheet below to keep a record of your answers. You must be a registered user on <http://www.medscape.org>. If you are not registered on <http://www.medscape.org>, please click on the “Register” link on the right hand side of the website. Only one answer is correct for each question. Once you successfully answer all post-test questions you will be able to view and/or print your certificate. For questions regarding the content of this activity, contact the accredited provider, CME@medscape.net. For technical assistance, contact CME@webmd.net. American Medical Association’s Physician’s Recognition Award (AMA PRA) credits are accepted in the US as evidence of participation in CME activities. For further information on this award, please refer to <http://www.ama-assn.org/ama/pub/about-ama/awards/ama-physicians-recognition-award.page>. The AMA has determined that physicians not licensed in the US who participate in this CME activity are eligible for *AMA PRA Category 1 Credits*[™]. Through agreements that the AMA has made with agencies in some countries, AMA PRA credit may be acceptable as evidence of participation in CME activities. If you are not licensed in the US, please complete the questions online, print the AMA PRA CME credit certificate, and present it to your national medical association for review.

Kopolovic I, Ostro J, Tsubota H, Lin Y, Cserti-Gazdewich CM, Messner HA, Keir AK, DenHollander N, Dzik WS, Callum J. A systematic review of transfusion-associated graft-versus-host disease. *Blood*. 2015;126(3):406-414.

1. Your patient is a 58-year-old man with transfusion-associated graft-versus-host disease (TA-GVHD). According to the review by Kopolovic and colleagues, which of the following statements about the features of components transfused in patients with TA-GVHD is correct?

- Approximately one-quarter of cases met criteria for component irradiation
- Most patients meeting criteria for component irradiation received transfusion with irradiated components
- Most patients with TA-GVHD received transfusion with platelets or white cells
- When reported, component storage duration was 10 days or less in 94%, and 6.6% of blood components were leukoreduced

2. According to the review by Kopolovic and colleagues, which of the following statements is true regarding the relationship between donor and recipient HLA types?

- Less than half of TA-GVHD cases were classified as D = 0 (no donor antigens foreign to the recipient) at either HLA class I or II loci
- D = 0 classification was less common among recipients without traditional indications for component irradiation
- Donor lymphocytes in which HLA antigens are all shared by the recipient predominate in TA-GVHD cases, especially in immune-competent recipients
- D = 0 at either HLA class I or class II was twice as likely in recipients with an indication for irradiation as it was in recipients without such an indication

3. According to the review by Kopolovic and colleagues, which of the following statements about the relative contributions to TA-GVHD of recipient and component factors is correct?

- The findings show that host immune defects are most important in the pathogenesis of TA-GVHD
- The main mechanism in both immunocompetent and compromised hosts is exposure to viable donor lymphocytes not recognized as foreign by, but able to respond against, the recipient
- Two-thirds of cases occurred in recipients who would warrant blood component irradiation based on underlying diagnosis, according to current guidelines
- Approximately half of patients received blood components from a known related donor

Activity Evaluation (where 1 is strongly disagree and 5 is strongly agree)

1. The activity supported the learning objectives.

1	2	3	4	5
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2. The material was organized clearly for learning to occur.

1	2	3	4	5
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3. The content learned from this activity will impact my practice.

1	2	3	4	5
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4. The activity was presented objectively and free of commercial bias.

1	2	3	4	5
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