

Continuing Medical Education (CME) questions

Intravenous iron for the treatment of fatigue

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 70% 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 Medscape.org. If you are not registered on 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/category/2922.html>. 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*TM. 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.

Krayenbuehl PA, Battagay E, Breymann C, Furrer J, Schulthess G. Intravenous iron for the treatment of fatigue in nonanemic, premenopausal women with low serum ferritin concentration. *Blood*. 2011;118(12):3222-3227.

1. A 32-year-old, premenopausal woman presents with fatigue. Hemoglobin and hematocrit are in normal range. On the basis of the randomized controlled trial by Dr Krayenbuehl and colleagues, which of the following statements about the likely effects of intravenous (IV) iron is *most likely* correct?

- Overall, there was a dramatic, statistically significant improvement of median fatigue score after IV iron in all patients
- IV iron versus placebo significantly reduced fatigue in women with serum ferritin concentrations ≤ 15 ng/mL
- Hemoglobin levels increased in women receiving IV iron
- There was no placebo effect observed in this study

2. The patient has a serum ferritin level of 13 ng/mL and is started on IV iron therapy. On the basis of the randomized controlled trial by Dr Krayenbuehl and colleagues, which of the following statements about anticipated adverse events is *most likely* correct?

- Drug-associated adverse events occurred in 21% of iron-treated women and in 7% of placebo-treated women
- 10% of women receiving IV iron had serious adverse events
- The most frequently reported adverse events were diarrhea and muscle pain
- Adverse events are likely to persist long after administration of IV iron

3. On the basis of the randomized controlled trial by Dr Krayenbuehl and colleagues, which of the following statements about the clinical implications of these findings for women with fatigue is *most likely* correct?

- Transferrin saturation is the best way to predict a significant benefit from IV iron therapy
- Women with serum ferritin concentrations ≤ 15 ng/mL will not benefit from IV iron therapy
- Oral iron treatment is well tolerated in all patients
- Women with fatigue should be carefully evaluated for somatic, psychological, and/or social causes for fatigue

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

1. The activity supported the learning objectives.
1 2 3 4 5
2. The material was organized clearly for learning to occur.
1 2 3 4 5
3. The content learned from this activity will impact my practice.
1 2 3 4 5
4. The activity was presented objectively and free of commercial bias.
1 2 3 4 5