

signal in more than 1000 patients in clinical trials. He feels that "we do not have enough patients to be certain about safety."

Dr. Aapro dismissed allergic reactions to iron as a minor issue, saying that they are not a problem with modern iron preparations. "Oncologists are used to managing allergic reactions to cytotoxic agents, so even if the problem did exist, it would be annoying but not a major issue," he commented in an interview with *Medscape Oncology*.

However, there is a concern that adding iron to cytotoxic agents that have deleterious effects on the heart could increase cardiotoxicity. There are also concerns that iron can theoretically increase patients' susceptibility to infections, which has been suggested by studies in the renal field, and that iron can theoretically promote tumor growth, according to preclinical work that has shown that iron chelation can reduce tumor growth, Dr. Aapro said.

Dr. Auerbach countered these comments at a subsequent press conference, and said that the data from the clinical trials so far do not suggest that there is any effect on tumor progression. In fact, the trend was toward a slight improvement in cancer-related parameters, although was not statistically significant.

Dr. Aapro also raised the concerns about iron in a wider context, pointing out that the alternative for many of these patients is blood transfusions, and "transfusions certainly are not safe," he said. Regulatory authorities have recently recommended the use of blood transfusions in place of ESAs in cancer patients with chemotherapy-induced anemia, but there are no regulatory data to show that transfusions are a safe option, he said. Transfusion reactions are not uncommon, and there is a potential for iron overload, he pointed out. In addition, there is a concern that transfusions can sensitize patients before they receive allotransplants for lymphoma and leukemia, and there are some data to show that transfusions can decrease survival in colon cancer patients after surgery, he added. There is also the issue of supply — blood banks do not have unlimited supplies, and overall safety, as far as transmitting infection through a transfusion, is not guaranteed in all countries in the world, he said.

Dr. Aapro said that clinicians are using IV iron to improve results in cancer patients, in those who have been shown to be iron deficient, and in those who are taking EASs but who are not iron deficient (as in the current study). But there are practical questions that still need to be answered, he said. Currently, there is no preferred product or optimal dosing schedule. Many different iron preparations are available, and they are used in different schedules, according to how the studies were performed. Also, the question of whether iron should be used before ESAs has never been addressed, he pointed out.

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