To the Editor,

Arslan et al.’s recent study provides an opportunity to discuss our earlier results from a 1964 study on early diagnosis only iron deficiency anemia and sideropenia [1,2]. Catalase is present in almost all cells, including red cells, and is known to be the most active enzyme involved in the destruction of hydrogen peroxide, which causes oxidative stress. In iron deficiency red cell catalase synthesis decreases before the hemoglobin level does. When its synthesis decreases in iron deficiency anemia and sideropenia, the level of oxidative stress-associated substances increases as a result. As such, the authors’ statement, “increased oxidative stress may play a role in the pathogenesis of iron deficiency anemia” should be amended with, “as increased oxidative stress occurs as a result of iron deficiency”.

Conflict of interest statement
The authors of this paper have no conflicts of interest, including specific financial interests, relationships, and/or affiliations relevant to the subject matter or materials included.

References