DEAR EDITOR,

Recently, two articles entitled “Protective role of silymarin (SM) and deferoxamine (DF) against iron dextran-induced renal iron deposition in male rats,” and “Co-administration of SM and DF against kidney, liver and heart iron deposition in male iron overload rat model” were published in International Journal of Preventive Medicine.\textsuperscript{[1,2]} The authors used two different models of iron overload in rats and investigated the protective role of SM, DF and combination of both against iron dextran-induced renal iron deposition. However, they did not report the change of liver enzymes. There are some mechanisms that shows iron overload make liver injuries such as, hepatocellular necrosis, inflammation, and in some cases even carcinoma.\textsuperscript{[3,4]} Therefore, we measured and analyzed the serum level of alanine aminotransferase (ALT), aspartate amino transferase (AST) and alkaline phosphatase (ALP) in animals of these two protocols of iron overloading (see published articles\textsuperscript{[1,2]} for complete methods and groups designs). The results are shown in Figure 1. Serum level of AST, in protocol one, in groups overloaded with iron dextran and treated with combination of DF and SM increased significantly when compared with iron dextran overloaded alone group \((P < 0.05)\). Serum level of ALT has no significant difference between groups in both protocols. Serum level of ALP, in protocol one, has no significant difference between groups. However, in protocol two, the serum level of ALP was decreased in all treated groups when compared with placebo treated group, but significant difference was observed between placebo treated group and iron dextran alone treated group \((P < 0.05)\). The protective role of SM on the serum level of ALT was reported in different iron overloading model in rats.\textsuperscript{[5]} It seems that protective role of SM, DF or combination of both is strongly depended on model and severity of iron overloading.
REFERENCES


**Source of Support:** Nil  
**Conflict of Interest:** None declared.