

A Multicenter Natural History Study of Iron Overload in B Thalassemia and Sickle Cell Disease.

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Synopsis:

Assessment and treatment of iron overload are critical to the outcomes of b-thalassemia (Thal) and sickle cell disease (SCD) requiring RBC transfusions. It had previously been observed that iron overload produces greater organ toxicity and earlier death in B-thal than in SCD, despite similar transfusion and chelation regimens. However, there were no prospective comparison studies available in the literature. This prospective multi-center natural history study assessed differences in prevalence and incidence of organ dysfunction between severely iron overloaded SCD and Thal patients.