

## عنوان مقاله:

Advances in Iron Chelation Therapy: Towards A New Oral Formulation

## محل انتشار:

مجله بین المللی کودکان, دوره 10, شماره 7 (سال: 1401)

تعداد صفحات اصل مقاله: 9

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## خلاصه مقاله:

Background: Patients with thalassemia major require regular monthly blood transfusion and excess iron from multiple blood transfusion deposits in different organs of the body, causing different organ damages. Cardiac iron overload is the main cause of death in patients with thalassemia major. Method: The aim of this study was to determine the effectiveness of Deferasirox (Nan jade) produced in Iran for the first time as a medicine in reducing iron overload of chronic blood transfusion in patients with Beta-thalassemia major. This is a pre-post quasi-experimental study that was performed on patients with thalassemia major involved in lifelong regular monthly blood transfusions. In this study, based on the existing protocols, injectable and dissolving iron chelating regimes were changed to a new generation of deferasirox oral tablets. To determine the effect of Nan jade, the mean level of the last three serum ferritin levels, before changing chelation, was compared with the serum ferritin levels after starting Nan jade. In the course of treatment, the possible side effects of Nan jade in various organs were monitored regularly. Results: The mean age of the patients was ۱۶ years (ranging between ۳ and ۳۹ years). None of the patients had renal failure, elevated creatinine, or proteinuria with Nan jade. The most important side effect was elevated liver enzyme levels. The mean starting dose of Nan jade was  $۱۹.۸۶ \pm ۵.۷۸$  mg/kg and the mean of the last dose was  $۲۳.۴۱ \pm ۵.۴۹$  mg/kg. There was a statistically significant difference between the amount of ferritin at baseline with the serum ferritin of ۶ and ۱۸ months after chelation with Nan jade ( $P = ۰.۰۰۱$ ). Conclusion: chelation with Nano Jade had less renal and hepatic side effects; and all of the patients had good compliance and significant reduction in the serum ferritin level in comparison to the results of other studies regarding the similar foreign deferasirox products

## کلمات کلیدی:

Thalassemia Major, Iron overload, Nan jade

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