

عنوان مقاله:

Evaluation of Auditory Brainstem Responses (ABR) in Healthy Term Infants with Elevated Bilirubin Levels Requiring Exchange Transfusion

محل انتشار:

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خلاصه مقاله:

Background and Objective: Hyperbilirubinemia is a common neonatal abnormality. Severe hyperbilirubinemia is a risk factor for auditory system injury. Auditory brainstem responses (ABR) are important in early diagnosis of hearing impairments in healthy term infants with elevated bilirubin levels requiring exchange transfusion. **Materials and Methods:** During a two- year- period (۲۰۰۷ – ۲۰۰۹), in a prospective descriptive analytical study, in Tehran Milad Hospital, ۶۴ (۳۲ female, ۳۲ male), healthy term (> ۳۷ weeks) infants, who required treatment or were treated with phototherapy or received exchange transfusion for elevated bilirubin levels or jaundice, were studied. After obtaining a written consent from their parents, the infants were tested with auditory brain responses and results were analyzed using SPSS ۱۶ software. **Results:** No significant correlation was found between ABR and age, weight, bilirubin level or ABO blood group. Nineteen out of ۶۴ infants received exchange transfusion. Three out of ۱۹ infants (۱۶%) exhibited abnormal ABR and ۱۶ infants (۸۴%) had normal ABR. There was no significant correlation between exchange transfusions and ABR ($P>0.05$). **Conclusion:** The results pointed out that ۱۴% of the infants with elevated bilirubin who required exchange transfusion had abnormal ABR. This indicates that elevated bilirubin levels even without inducing kernicterus should be considered as risk factors for hearing impairments. Further studies are needed on how long .these tests may remain abnormal

کلمات کلیدی:

(Hearing Loss, Exchange transfusion, Auditory brainstem response, Oto-acoustic emission (OAE

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