

## عنوان مقاله:

Evaluation of Brain Natriuretic Peptide plasma levels in children with Congenital Heart Diseases

## محل انتشار:

مجله بین المللی کودکان, دوره 4, شماره 10 (سال: 1395)

تعداد صفحات اصل مقاله: 12

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## خلاصه مقاله:

**Objective** This study aimed to assess Brain Natriuretic Peptide in early diagnose of cardiac function in children with Congenital Heart Diseases. **Methodology** This study was performed on children with CHD and healthy. Severity of heart failure modified Ross classification system was used for grouping patients in four classes. For all participants, height, weight and head circumference were measured. From participants 3 cc blood samples was taken and after separation, the plasma placed at temperature of -80 c. After collecting all samples they were in testing using an ELISA BNP kit. For 50 children in control group statistical methods used to generate RV and PA pressure randomly. The data were analyzed using SPSS for Windows, Version, 15.0 (Chicago, SPSS Inc. USA) with 0.05 for the level of significant. **Results** BNP, RV pressure, PA pressure, HB and O2 saturation had different means in cyanotic, Acyanotic and control significantly. BNP, RV, PA, HB and O2Sat had different means in case and control significantly. RV, HB and O2 saturation had different means significantly accordance with the severity of disease. BNP had correlation with PA and PA had correlation with Qp/Qs ratio, Rp/Rs ratio, RV and O2Sat significantly. **Conclusion** At the end from the results of the study concluded that BNP levels in children with chd increased. in patients with pulmonary hypertension, with increasing the level of pulmonary hypertension the BNP will increase. BNP increasing had high association with the severity of heart failure.

## کلمات کلیدی:

BNP, Diagnostic, CHD, Children

## لینک ثابت مقاله در پایگاه سیویلیکا:

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