



POSTER PRESENTATION

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PreS-FINAL-2272: Association of benign joint hypermobility syndrome with mitral valve prolapsed in Iranian children

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Introduction

Benign joint hypermobility syndrome (BJHS) is a clinical condition characterized by an increased ability of joints during passive and dynamic movements. Mitral valve prolapsed (MVP) is the most commonly diagnosed cardiac abnormality and affects around 5% of population. Abnormalities of collagen have been found in valves of patients with MVP.

Objectives

There were limited published papers concerning children with BJHS and MVP. The aim of this study was to determine the association of BJHS with mitral valve prolapsed in children.

Methods

Sixty-three children with benign joint hypermobility syndrome were included in case group and 63 without any rheumatologic disease were placed in control group. We used Carter-Wilkinson and Beighton criteria for diagnosing of benign joint hypermobility syndrome. MVP was evaluated by echocardiography in both groups. The mitral leaflet displacement >2 mm considered as cut off for diagnosis of MVP.

Results

In this study, 32 girls and 31 boys were included. Mean of age in case group was 7.1 was 6.9 ($p = 0.001$). Mitral valve prolapse was significantly higher among cases with BJHS aged >7 (58.8%) year compared to 3-7 (41.2%) year of age ($p = 0.027$). Heart murmur and palpitation was more common among children with benign joint

hypermobility syndrome with MVP compared to children without MVP ($p < 0.05$).

Conclusion

The incidence of MVP among children with benign joint hypermobility was significantly higher than control group.

Disclosure of interest

None declared.

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