



POSTER PRESENTATION

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

R Shiari<sup>1\*</sup>, F Vaziri<sup>2</sup>, E Zahmatkesh<sup>2</sup>, H Javaherizadeh<sup>3</sup>

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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.

## Authors' details

<sup>1</sup>Pediatric Rheumatology, Shahid Beheshti University of Medical Sciences, Mofid Children's Hospital, Tehran, Iran, Islamic Republic Of. <sup>2</sup>Pediatrics, Shahid Beheshti University of Medical Sciences, Tehran, Iran, Islamic Republic Of. <sup>3</sup>Pediatrics, Ahvaz Jundishapur University, Tehran, Iran, Islamic Republic Of.

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<sup>1</sup>Pediatric Rheumatology, Shahid Beheshti University of Medical Sciences, Mofid Children's Hospital, Tehran, Iran, Islamic Republic Of  
Full list of author information is available at the end of the article