

**JOINT EVENT**

10<sup>th</sup> International Conference on

&

2<sup>nd</sup> International Conference on

June 12-13, 2017 Rome, Italy

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**Abstract** Aim of this study is to evaluate the relationship between periaortic fat thickness (PAFT) and parameters involved in the development of metabolic complications of the cardiovascular system in obese children and to assess the usefulness of echocardiographic measurements of PAFT in correlation with cardiovascular risk factors.

**Introduction** The study was conducted with 263 obese and 100 healthy children and adolescents. PAFT was measured with echocardiography method which was recently performed in obese children and adolescents.

**Results** PAFT was significantly higher in the obese group ( $0.258 \pm 0.031$  mm) than in the control group ( $0.137 \pm 0.032$  mm) ( $p < 0.001$ ). In multivariable regression analysis, body mass index-standard deviation score and total body fat were predictors of PAFT. The area under the receiver operating characteristic curve was 0.989 and was quite significant at  $p < 0.001$ . PAFT above 0.179 mm was determined as the cut-off value in obese children and adolescents (sensitivity=1, specificity=0.97).

**Conclusion** The measurement of PAFT in obese children and adolescents may be a good method to reveal the presence of early cardiovascular risk.

Mehmet Emre Atabek has completed his PhD at Erciyes University and Post-doctoral studies at Selcuk University School of Meram Medicine. He is the Director of Pediatric Endocrinology, a premier pediatric endocrinology and diabetology service organization. He has published more than 120 papers in reputed journals and has been serving as an Editorial Board Member of repute. He has been interested in searching metabolic problems of obese children in most of his articles. He continues to work as Head of Department of Pediatric Endocrinology at Necmettin Erbakan University.

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