

Early Adiposity Rebound and Small Dense Low-Density Lipoprotein in Childhood Obesity

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subjects were then divided into 5 groups based on an age at AR ≤ 4 y, 5 y, 6 y, 7 y, and ≥ 8 y.

Measurements of lipids

Fasting blood sampling in the morning was performed at school. To obtain blood samples after an overnight fast, students were allowed to bring a packet box breakfast, which they ate after undergoing a health examination in the schoolroom. Blood samples collected in tubes containing 1 g/L EDTA were sent to the laboratory. Plasma was separated and stored at -80°C until measurement of LDL particle size. Levels of total cholesterol (TC) (Cholestest CHO, Daiichi Pure

Discussion

In this study, children with early AR had higher BMI at 12 years of age, and circulating SLDL was detected only in children with AR at <5 years. These children also exhibited atherogenic lipid profiles with elevated plasma levels of TG and atherogenic index and decreased plasma HDL-C, whereas TC and LDL-C, the metabolism of which is independent of insulin resistance [16], did not show

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