

13,78±2,63 SD

CARDIOVASCULAR RISK MARKERS IN METABOLICALLY HEALTHY AND METABOLICALLY UNHEALTHY OBESE ADOLESCENTS

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POPULATION and METHODS

Lean healthy
(LH), n=23

Metabolica healthy obe (MHO),

n = 145
Mean age

Metabolically healthy obese (MHO), (MUO), n = 145 n = 62

13,51<u>+</u>3,19 SD

No gender and age differences

14,07±2,93 SD

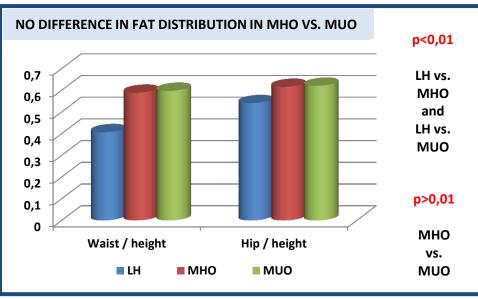
History, lifestyle, psychology (Beck-Youth)

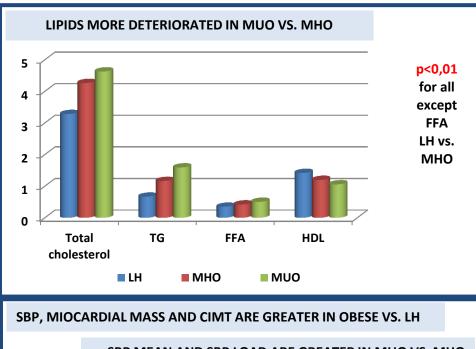
Metabolic parameters (lipids, OGTT, AUC, Fasting Insulin, HOMA-IR)

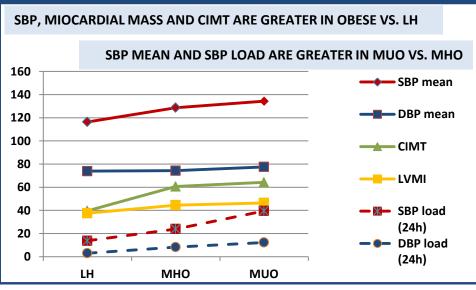
Left ventricular geometry and function, 24-hours BP monitoring, carotid intimamedia thickness (CIMT)

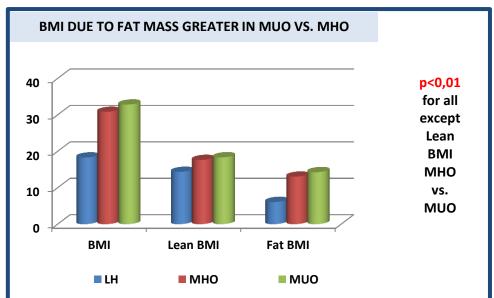
Pediatric Metabolic Syndrome IDF criteria for grouping

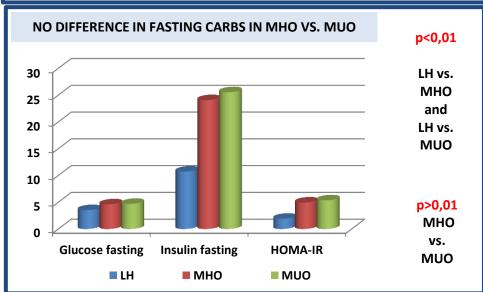
RESULTS











PROGNOSTIC CAPABILITY OF IDF CRITERIA FOR THE MS TO SCREEN OBESE CHILDREN WITH CARDIOVASCULAR RISK Criteria Specifity Sensitivity PPV NPV Prognostic value IDF 0,96 0,28 0,96 0,29 0,62

Patients who had at the same time hypertension, myocardial hypertrophy, CIM thickening were marked as "risky" and stateless - as "not risky"

CONCLUSIONS

- 1. Independent cardiovascular risk markers such as myocardial hypertrophy, carotid vessels thickening and systolic hypertension are present in both metabolically healthy and unhealthy individuals
- 2. Vast majority of obese display difference by main lipid and carb parameters vs. lean healthy ones and mild dyslipidemia, impaired glucose load with insulin resistance are between them
- 3. The more sensitive criteria than IDF ones are necessary for the identification of metabolically healthy obese children.