Conclusion In children with malnutrition BMI, MUAC, TST and low serum albumin levels correlated with genotype GG and CG of the IL-6 572 gene.

PS-078 CLINICAL RELEVANCE OF GAMMA-GLUTAMYL TRANSPEPTIDASE IN CHILDHOOD OBESITY

 backgrounds and aims Metabolic risk leads to severe comorbidities in obesity. We evaluate the relationship between the values of gamma-glutamyl transpeptidase (GGT), a marker of hepatic involvement, and cardio metabolic risk factors in obese children.

 methods A prospective cross-sectional study of 147 children (aged 7 to 16 years) was carried out. Ninety-five children were obese with a body mass index standard deviation score (SDS-BMI) ≥2 and 52 children were normal weight. Patients with endocrine disease or syndromic obesity were excluded. We have analysed clinical parameters of adiposity (fat mass by bioelectrical impedance, waist and hip circumference), blood pressure, and classical biochemical parameters indicative of metabolic risk (lipid profile, glucose and insulin). Additionally, novel parameters related to metabolic risk such as uric acid, retinol binding protein (RBP4), cystatinC, homocysteine, thymotrypin, ultrasensitive C-reactive protein (CRP) and GGT were also determined.

 statistical analysis was made ANCOVA test and GGT were also determined. Statistical analysis was made ANCOVA test and Pearson partial correlation adjusting for gender, age, Tanner stage, and BMI.

 results GGT was higher in the children with SDS-BMI >4 vs respect children with SDS-BMI between 2 and 4 (16.3 ± 5.8 vs 18.4 ± 8.8 IU/L, p = 0.025). Both groups were statistically significant with respect normal weight (12.2 ± 2.9 IU/L, p < 0.0001 and p < 0.001 respectively). GGT was correlated with SDS-BMI (p < 0.0001), waist circumference (p < 0.001), percentage of fat mass (p < 0.01), SDS of systolic blood pressure (p < 0.018), total cholesterol (p < 0.0001), LDL cholesterol (p < 0.0001), triglycerides (p < 0.0001), RBP4 (p < 0.047), thymotrypin (p < 0.019) and CRP (p < 0.044).

 conclusion GGT is a marker associated with several metabolic risk factors, which highlights the importance of considering hepatic impairment as a component of this syndrome.

 PS-079 WITHDRAWN

 PS-080 PREVALENCE OF OVERWEIGHT IN PAEDIATRIC INFILAMMATORY BOWEL DISEASE IN SAUDI ARABIA

 backgrounds and aims Excess weight in inflammatory bowel disease (IBD) represents an additional morbidity, and yet the prevalence has been rarely reported. The aim of this report is to establish the prevalence of overweight in children with IBD in the Kingdom of Saudi Arabia (KSA).

 methods Data from a cohort of children in the KSA diagnosed with IBD were analysed retrospectively. Growth parameters were recorded at diagnosis and body mass index (BMI) was calculated using the formula (weight/height²). The KSA charts were used as reference. Excess weight categories were defined as overweight (BMI-for-age ≥85th to <95th), obesity ≥95th to <97th), and severe obesity ≥97th percentile. Chi-square test was used and p-value of <0.05 was considered significant.

 results There were 417 children from birth to 18 years of age, including 133 ulcerative colitis (UC) (32%), and 284 Crohn disease (CD) (68%). The prevalence of excess weight was 12/133 (9%) in UC and 23/284 (8.1%) in CD (p = 0.063) much lower than in Western reports. However, the more common prevalence of excess weight in UC than CD, although not significant (p = 0.063), was similar to patterns from other population. The commonest form of excess weight was overweight 20/35 (57%), followed by obesity 9/35 (26%), and severe obesity 6/35 (17%).

 conclusion The pattern of excess weight in KSA children with IBD is similar to Western literature. However, a much lower prevalence is demonstrated. Identification of factors associated with the low prevalence of overweight and obesity is needed.