Reviewer’s report

Title: The Prevalence, Risk Factors, and Screening Measure for Prediabetes and Diabetes among Emirati Overweight/Obese Children and Adolescents

Version: 2 Date: 20 July 2015

Reviewer: emanuele miraglia del giudice

Reviewer’s report:

The study is well performed and the paper is well written and appears interesting, dealing with an argument (i.e.; the individuation among the obese children of those with pre-diabetes and at risk for diabetes) which is important for public health.

Major Compulsory Revisions

1- The study suffers of a limitation that I think should be clearly expressed in the text. Reading the paper and the relative flowchart I note that a potentially interesting subset of obese children with pre-diabetes has not been identified. These are obese children showing normal fasting glucose and normal HbA1C, but, eventually, abnormal OGTT (at 120 minutes more than 140 mg/dl of glucose and less than 200 mg/dl). In my experience and in a number of papers this represents a group of children with pre-diabetes not numerically negligible. In this study the Authors have missed these patients.

2- In the correlation I suggest to use BMI-Z-score in order to test the influence of BMI on pre-diabetes

3- In the correlation I suggest to use the waist-to-height ratio in order to test the influence of abdominal fat on pre-diabetes. Waist circumference, in fact, normally changes from 11 to 17 years and this change can be normalized with height.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests