Reviewer’s report

Title: Title: A systematic review on associations between dietary factors and obesity-related biomarkers - numerous limitations seem to impede current research on childhood obesity

Version: 0 Date: 02 May 2017

Reviewer: Fairuz Nazri Abd Rahman

Reviewer’s report:

Background

line 56 please quote percentages of obesity prevalence in children and adolescents worldwide.

I agree there are limitations in the studies when physical activity is not included in the calculations as it affects insulin resistance.

Potential biomarkers to consider/control for also includes growth hormone and sex hormones such as FH, FSH, LH and testosterone.

Family history and identified genes are also confounding factors to be considered.

Analysis also needs to separate out those who have reached puberty and those who have not.

General comments: Frankly I do not see why preventing childhood obesity should be so complicated and invasive when basic interventions such as healthy diet and physical activity are more practical and measured by anthropometric measurements including fat and muscle composition.

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