Reviewer's report

Title: Preventing Type 2 Diabetes Mellitus in Qatar by Reducing Obesity, Smoking, and Physical Inactivity: Mathematical Modeling Analyses

Version: 0 Date: 13 Oct 2018

Reviewer: Randa Hamadeh

Reviewer's report:

General Comments:*A novel well written paper with implications on health policy in Qatar.*
Rephrase "what if" intervention-* in the text.
Abstract:*Page 2, Background:*I suggest modifying the background to "The aim of this study was to estimate the impact of reducing the prevalence of obesity, smoking, and physical inactivity, and introducing physical activity as an explicit intervention, on the burden of type 2 diabetes mellitus (T2DM)" using Qatar as an example.
Background:*Page 4, lines 65-66: "(defined as BMI>30 kg per m2". No need for this.*Page 5: lines 86-89. The objective of the study is not clearly written. *Page 5: lines 93-95. I find this can be rewritten and moved to the discussion section. You can't guarantee having an immediate public-health impact.
Results:*Page 9, para 1 in results should be part of methods.
Discussion:*Page 13, lines 277-278: "Using an analytical approach, we investigated the epidemiological impact of several population-based intervention for prevention scenarios for T2DM in Qatar." Better if written this way "Using an analytical approach, we investigated the impact of several population-based interventions on reducing the burden of T2DM in Qatar". *Page 13, line 306: "(in relative terms)" , no need for this. *Page 14, line 310-312: "but there is uncertainty over whether such rapid scale up of reductions in risk factors are feasible, given the lack of wide scale population-based examples globally. " Not clear*Page 14, line 323: "may also prove promising" ? needs to be restructured.*Page 15, line 350-351: "Obesity in this study was defined as BMI>30 kg/m2 across all age groups", should be in methods. Tables and Figures:*The figures are not clearly presented. Better copies are needed.

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