Reviewer's report

Title: Sexual Dimorphism in the Incidence of Human Cancers

Version: 2 Date: 02 Apr 2019

Reviewer: Wanqing Wen

Reviewer's report:

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The authors have improved the manuscript and adequately addressed the reviewers' concerns for the most part except for the incidence rate standardization. The authors standardized the cancer incidence rates for the SEER/Mayo data, Sweden data, and the World Cancer Report data using three different standard populations (i.e., US population, Sweden population, and the world population, respectively). It may be appropriate for the comparisons of yearly incidence ratios of men to women (or women to men) across populations by using different standard populations as plotted in Fig 1, since the incidence sex ratios was independent to age effect within a population. However, it is not appropriate for the comparisons of yearly incidence rates across sexes and populations by using different standard populations as plotted in Fig 2, since different populations have difference age distributions. The simple solution is to use the same standard population, e.g., the World population, for all the SEER/Mayo data, Sweden data, and the World Cancer Report data. The standardized rates can only be compared based on the same standard population.
Are the methods appropriate and well described?
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Yes

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Unable to assess

Are the conclusions drawn adequately supported by the data shown?
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Yes

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