Reviewer’s report

Title: The impact of daily temperature on renal disease incidence: an ecological study

Version: 0 Date: 30 Aug 2017

Reviewer: Andrew Grundstein

Reviewer's report:

The manuscript discusses the relationship between air temperature and renal disease in the vicinity of Adelaide, Australia. The article would be of interest to readers of Environmental Health and provides new understanding of the links between heat and renal disease in South Australia.

The methods seem appropriate and the findings are supported by the data. I have a few minor comments that I believe will improve the manuscript.

1. I would suggest using "climate change" in place of "global warming" as a more comprehensive term.

2. You might want to mention some fairly recent heat waves that have impacted the Adelaide area to provide additional justification in the setting section, e.g. March 2008, Jan-Feb 2009, Nov 2009, Summer 2013-2014.

3. You mention as a limitation that you use a single station to represent the Adelaide metropolitan area. Perhaps you can quickly look at some monthly climate statistics for nearby stations for support: http://www.bom.gov.au/sa/observations/adelaidemap.shtml

4. Line 65 - you may want to be careful with using the term "heat exposure" as you may not know the individual's particular exposure. Perhaps replace with "relationship between ambient air temperature and urinary tract infections…"

5. Line 75 - perhaps rephrase "…renal disease during heat waves…"

6. Line 102 - it may be more accurate to say "meteorological data"

7. A recently published article may be useful to cite as it identifies strong links between renal diseases and various metrics of heat and heat waves: Chen, T., S. Sarnat, A. Grundstein, A. Winquist, H. Change. In Press at Environmental Health Perspectives : Time-series analysis of heat waves and emergency department visits in Atlanta, 1993 to 2012.
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An article of importance in its field

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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