

Extreme weather inquiry - Thursday 11 April - AMA response to question on notice (mortality and morbidity impact of extreme heat)

During this morning's hearings into the Inquiry into Extreme Weather, the AMA took on notice a question from Senator Milne. Senator Milne requested information about Australian studies or reports that quantify the relationship between extreme heat and mortality or morbidity rates.

In the AMA's written submission to this Inquiry, we referred to several studies that quantify the health impacts of heat, including:

- Loughnan, M, Tapper, N, Phan, T, Lynch, K, McInnes, J, (2013). *A spatial vulnerability analysis of urban populations during extreme heat events in Australian capital cities*. National Climate Change Adaptation Research Facility: Gold Coast. http://apo.org.au/sites/default/files/Loughnan-ExtremeHeatEventsinAustralianCapitalCities-WebRes_0.pdf.
- Bi, P, Williams, S, Loughnan, M, Lloyd, G, Hansen, A, Kjellstrom, T, Dear, K, Saniotis, A, (2011). The effects of extreme heat on human mortality and morbidity in Australia: implications for public health. *Asian and Pacific Journal of Public Health*, 23(supplement): s27-s36.
- Reeves J, Foelz C, Grace P, et al., (2010). *Impacts and adaptation responses of infrastructure and communities to heatwaves: the southern Australian experience of 2009*. National Climate Change Adaptation Research Facility: Gold Coast. http://www.isr.qut.edu.au/downloads/heatwave_case_study_2010_isr.pdf.

Additional sources that the AMA consulted regarding the impact of extreme heat on morbidity and mortality are:

- Williams, S, Nitschke, M, Parton, K, Weinstein, P, Bi P, (2008). The Impact of Summer Temperatures and Heatwaves on Mortality and Morbidity in Perth, Australia 1994-2008. *Environment International* 40:33-38.
- Nitschke, M, Tucker, G, Hansen, A, Williams, S, Zhang, Y, Bi, P. (2011). Impact of two recent extreme heat episodes on morbidity and mortality in Adelaide, South Australia: a case-series analysis. *BMC Environmental Health*.

Please don't hesitate to contact the AMA if the Committee have any further questions in relation to this issue.

Kind regards
Corinne Dobson
Senior Policy Adviser (Public Health)
Australian Medical Association