Reviewer's report

Title: The assessment of renal function in relation to the use of drugs in elderly in nursing homes; a cohort study

Version: 2 Date: 1 November 2010

Reviewer: Ahsan Alam

Reviewer's report:

The revised manuscript by Modig et al. still suffers from important biases due to the cross-sectional nature of the study, problems with stable GFR determination, and limited data about medication use and indication. The authors, however, have addressed many of these in the discussion as limitations.

The additional data that is provided also reveals that the prevalence of hypertension is 29%, diabetes 19-24%, heart failure 13-14%, and arthritis 5-10%. These frequencies seem remarkably low for a nursing home population over age 65. This highlights how this population may not generalize to other elderly cohorts.

Some residual corrections that should be made are:

1. Page 8: median dose of drugs are reported, however is the number in brackets () the range or interquartile range? Please specify.

2. Page 10: please correct to 'Levey et al'

3. All references to CRcl should be maintained, as this is the appropriate way to refer to the C-G measurement ie. eGFR/CRcl (ml/min/1.73m2)

Overall, Modig et al. have addressed the reviews provided in a satisfactory manner.

Level of interest: An article of limited interest

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.