Reviewer’s report

Title: Replicating Medication Trend Studies Using Ad Hoc Information Extraction in a Clinical Data Warehouse

Version: 0 Date: 23 Aug 2018

Reviewer: Andreas Holzinger

Reviewer's report:

Title of the paper: Replicating Medication Trend Studies Using Ad Hoc Information Extraction in a Clinical Data Warehouse

Article Type: Research article

In this paper the authors present a generalizable approach to ad hoc information extraction for medications and their daily dosage, presented in hospital discharge letters. The authors also replicated previously published medication trend studies of 3 frequent diseases.

Technically, the authors added import and query features to a clinical data warehouse system and filter, during the data integration process, negated, historical and non-patient context data.

The paper is well written, tackles an important problem and is a useful contribution to the field.

The reviewer would also like to emphasize that the authors could even replicate one study completely with all main findings as well as the sub findings.

Generally, the paper is useful and is a novel contribution, hence this reviewer would argue accepting this paper.

The authors should do some minor spell checks and language polishing.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes
Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

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

Acceptable

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