Reviewer’s report

Title: "OPTImAL": an ontology for patient adherence modeling in physical activity domain

Version: 1 Date: 28 Jan 2019

Reviewer: Paul Taylor

Reviewer's report:

The section titled 'Rational' should be 'Rationale'.

"We comprised a combination of patient factors (e.g., age, motivation, lifestyle, etc.) and factors related to a particular type of adherence and its quality under a specific kind of physical fitness and their settings (e.g., independent physical activity, an exercise in CRP, etc.)." I'm not sure what this means, I don't think 'comprised' is the right verb.

"The respective individuals include patients with depression; female and male population; Jew, Arab, and Jordanian population; study participants after cardiac surgery, heart transplantation, and (acute) myocardial infarction; patients with a history of heart failure and uncomplicated myocardial infarction, and patients with heart transplants." These classifications do not seem to be universally helpful, that of 'Jew, Arab, and Jordanian population' seems particularly inappropriate outside of a single geographic setting. This seems an interesting challenge to the method. Perhaps worth discussing?

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?
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Yes
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I am able to assess the statistics

**Quality of written English**
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