Reviewer’s report

Title: Predicting Opioid Dependence from Electronic Health Records with Machine Learning

Version: 1 Date: 06 Jan 2019

Reviewer: CHELSEA CANAN

Reviewer's report:

The authors generally addressed the prior comments. However, the revised manuscript now presents many different analyses and can be hard to follow. Slight reorganization would improve readability (e.g. subheadings to distinguish primary analysis from sensitivity/exploratory analyses or moving some analyses to supplemental material). I'd also reiterate/clarify two earlier comments for further improvement:

1. I'd recommend removing the analyses that ranks lab tests and vital signs by p-value, as the smallest p-value does not necessarily indicate the most significant difference.

2. The flow chart is a useful addition, but it would be helpful to add an N to each step.

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