Reviewer's report

Title: Disease Associations Depend on Visit Type: Results from a Visit-Wide Association Study

Version: 0 Date: 13 Apr 2019

Reviewer: Lisha Zhu

Reviewer's report:

The novelty of this work is that the authors studied the visit type effect on PheWAS results using EHR data and concluded that assessing visit type is important for EHR studies.

1. The authors should give a definition of EMR, what it stands for? The authors should also give a brief explanation of ICD-9 and ICD-10 for those reads are not familiar with these terms.

2. What are those 7186 conditions? Are they different kinds of disease?

3. In Table S1, how the numbers in Ob./Gyn Visit vs. Cancer Visit calculated?

4. In 2.3 Pain Depends on Visit Type section, Only 129 pain conditions were in our dataset …, there should be 119 pain conditions according to the numbers given in Ob/Gyn visits and cancer visits.

5. What are the blue and red colors mean in Figure 2 and Figure 3? Are the results of Figure 2 and Figure 3 are similar since one is based on -log(p) and the one is based on log(OR)?

Level of interest
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