Reviewer's report

Title: CDAPubmed: a browser extension to retrieve EHR-based biomedical literature

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Reviewer: Illhoi Yoo

Reviewer's report:

I teach PubMed/MEDLINE and MeSH. I always told my graduate students that it's a good idea to automatically (or semi-automatically) create PubMed search queries mainly consisting of MeSH terms based on EMRs for health professionals. This could significantly contribute to the practice of evidence-based medicine. CDAPubmed is such software.

The authors claim that “there are no methods at present for searching and retrieving literature publications directly linked to the contents of specific EHRs, where EHRs are viewed as the user context.” However, the basic idea was introduced long time ago. It's called InfoButton. Refer to the web site: http://people.dbmi.columbia.edu/cimino/Infobuttons.html

If this manuscript belongs to the "Research" category rather than "Software", it cannot be accepted for publication because its evaluation part is too weak. I assume this is a "Software" paper.

[Major Compulsory Revisions]
1. No (even brief) discussion of HL7 CDA (a clinical document standard). In fact, CDA is not widely used in the states. Continuity of Care Record (CCR) by ASTM International is de-facto standard in the states.

2. The keyword identification process could be better explained using examples along with Figure 2.

3. There should be an evaluation on the identification process. How about its effectiveness and efficiency?

4. openNLP should be briefly discussed because it's a main part of the system.

5. The authors should discuss whether the software will work with CDA-R3 documents or not and what modifications are required.

[Discretionary Revisions]
1. The Abstract section is too long compared to the main text.

Level of interest: An article whose findings are important to those with closely related research interests
Quality of written English: Acceptable

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

Declaration of competing interests:
I declare that I have no competing interests