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## Knowledge discovery from patient forums: gaining novel medical insights from patient experiences

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# Propositions

accompanying the dissertation

## **KNOWLEDGE DISCOVERY FROM PATIENT FORUMS**

GAINING NOVEL MEDICAL INSIGHTS FROM PATIENT EXPERIENCES

by

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1. Semi-automatic knowledge discovery from patient forums can complement the knowledge of a medical professional (this thesis, chapter 8 and 9).
2. Hypothesis generation from experiences shared on online discussion groups should only be based on the aggregated experiences (this thesis, chapter 8 and 9).
3. NLP methods should be evaluated in the context of the relevant end-to-end task (this thesis, chapter 7, 8 and 9).
4. Disease-specific patient forums should be preferred over micro-blogs for semi-automatic knowledge discovery (this thesis).
5. All patient experiences expressed on patient forums should be treated as equally valid.
6. The integration of patient-reported experiences into healthcare should start with rare disorders.
7. NLP conferences should favor publications that analyze the limitations of models over those that present methods that offer marginal improvements in terms of performance.
8. Measures of variance, such as standard deviation, should be provided for performance of NLP models.
9. There should be a stronger focus on complex real-world entities within the NLP community.
10. A necessary condition for achieving full gender equality in the workplace is full gender equality in child-rearing.
11. Trains are the most superior form of transportation.