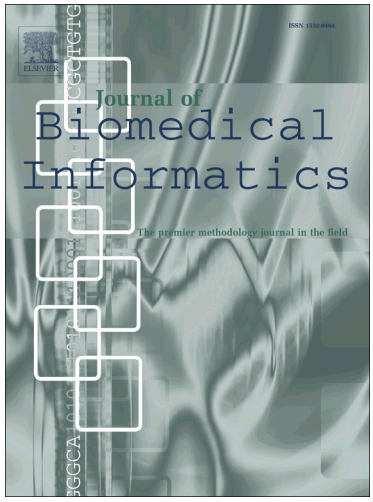

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Analysis of the effect of sentiment analysis on extracting adverse drug reactions from tweets and forum posts

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Abstract

Objective

The abundance of text available in social media and health related forums along with the rich expression of public opinion have recently attracted the interest of the public health community to use these sources for pharmacovigilance. Based on the intuition that patients post about *Adverse Drug Reactions (ADRs)* expressing negative sentiments, we investigate the effect of sentiment analysis features in locating *ADR* mentions.

Methods

We enrich the feature space of a state-of-the-art *ADR* identification method with sentiment analysis features. Using a corpus of posts from the DailyStrength forum and tweets annotated for *ADR* and indication mentions, we evaluate the extent to which sentiment analysis features help in locating *ADR* mentions and distinguishing them from indication mentions.

Results

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