Identification of diabetes-related distress patterns based on social media data using artificial intelligence methods

The World Diabetes Distress Study

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What is Diabetes Distress?

Analysis of 12+ millions of diabetes-related Tweets from all over the world using Natural Language Processing methods

Methodology

Results

Distribution of diabetes-related tweets in the USA

Conclusion

Social media is a useful source to capture information about People with diabetes feelings, emotions, beliefs and fears related to diabetes management and treatment

Next steps in WDDS:
- Correlate Twitter information with socio-economic + environmental factors (income, pollution, education,)
- Study associations between feelings, emotions and clinical factors (hypos)
- Setup a worldwide online cohort study of people with diabetes using a chatbot

WDDS Open source: https://github.com/WDDS/Tweet-Classification-Diabetes-Distress