

# AUTOMATED SCREENING FOR SUBSTANCE ABUSE BASED ON MEDICAL HISTORY

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## Description of Technology:

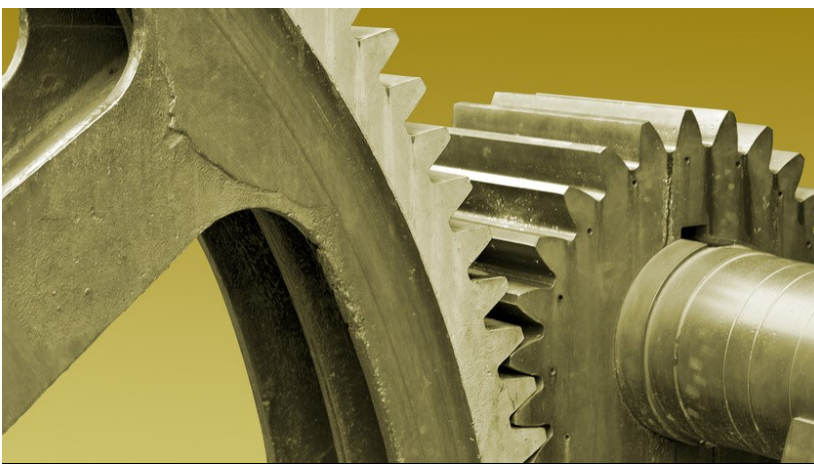
Existing methods of screening for substance abuse have proven difficult to initiate and maintain. The answers provided by patients about their drug use through a questionnaire are not always reliable. In another approach, the primary care providers ask questions to their patients about substance use. This too has proven to be illusive. Our software, using predictive modeling, produces reliable results using the existent patient data in electronic health records. It uses patient information about diagnosis, medications, clinical notes, test results etc. This eliminates the need to rely on patient to provide truthful and accurate information and leads to more accurate predictions and also provides a link between patient's illness and substance abuse. More details on how this works can be found at: <https://www.liebertpub.com/doi/pdf/10.1089/big.2018.0002>

## Advantages:

- Our model does not rely on the efforts of patient, or the clinician.
- Since screening is done within an existing electronic record, there are no security or privacy issues.
- Eliminates the need to collect additional data, as the model uses existing data from the health record.

## Primary Investigator:

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