Non-Confidential Description - PSU No. 4322
“A Framework for Early Prediction and Assessment of Autism Spectrum Disorder in Children”

Field of Invention/Keywords:
Diagnostics, process-procedure

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Background

The prevalence of autism spectrum disorders (ASDs) is on the rise. Current estimates indicate that more than 1 child in 68 in the United States has some form of autism. Early diagnosis of ASDs remains a challenge, and multiple studies have shown a significant positive correlation between early diagnosis and optimal patient outcomes.

Invention Description

This invention uses data from electronic medical records to identify reliable clinical indicators of ASDs and produces an assessment of ASD diagnosis severity. This technology constantly improves itself by incorporating new clinical data in its patient screening process. Pediatricians may find this invention of particular interest. Autism foundations may also be interested in seeing this technology developed. In addition to screening patients for autism, this technology could potentially be repurposed to identify clinical indicators for the early detection of other diseases, including Parkinson’s and Alzheimer’s.

Advantages

- Highly sensitive detection of autism spectrum disorders in children earlier than is currently possible.
- The assessment technology can be performed by anyone.

Status of the Invention

Available for licensing – Provisional filed September 8, 2015