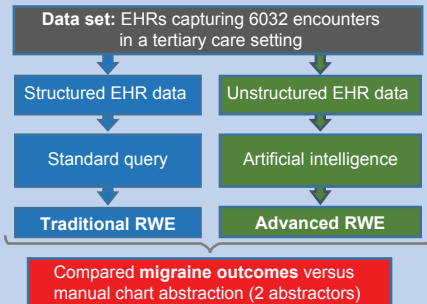


Supplemental Figure 1. Advanced RWE versus Traditional RWE with Unstructured EHR Migraine and Headache Data

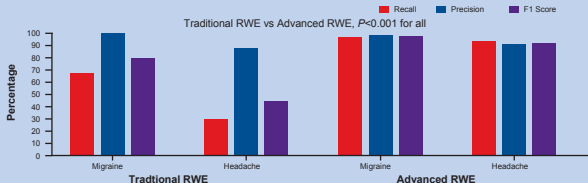
Objective: To use unstructured data from electronic health-records (EHR) to develop and validate an approach to identify concepts associated with the presence and progression of migraine in real-world settings.

Conclusion: An algorithm based on unstructured data from EHRs is almost as accurate as manual chart abstraction and better than traditional real-world evidence (RWE) in identifying patients with migraine.

Methods: Algorithms based on traditional and advanced RWE were developed and ability to detect migraine was compared



Findings: Manual abstraction was consistent and reliable. Compared with manual abstraction, recall for migraine and headache and migraine-associated symptoms was significantly higher for advanced RWE than for traditional RWE



Enhanced recall, precision and F1 score was reported for advanced RWE algorithm compared with the traditional RWE algorithm