Customized database of patients with opioid use disorder to identify potential treatments

WHAT IS THE RESEARCH DATA WAREHOUSE (RDW)?

The RDW is a repository of Epic data from patients and research subjects. It provides access to over 2.5 million patient records with 20 million patient encounter records and more than 40,000 data points. This repository can be used by OHSU investigators for research purposes.

PROJECT DESCRIPTION

Treatment options for people with co-occurring opioid and stimulant use disorders are limited, partially because this group is inadequately represented in research. This study fuses clinical trial data with electronic health records to identify optimal treatment strategies for OHSU patients using both opioids and stimulants. OHSU clinicians, researchers, policymakers, and other stakeholders may use results to guide clinical care to improve the health of these marginalized and vulnerable patients.

OCTRI RDW TEAM SERVICES AND ROLE

The OCTRI RDW team worked with Dr. Ryan Cook, addiction medicine expert at OHSU, to prepare a comprehensive database of over 10,000 OHSU patients with opioid use disorder containing information on medical services utilized, lab tests, medications, appointments, ED visits, inpatient hospital stays, clinical notes, and social determinants of health.

PROJECT OUTCOMES

This database will be used to identify which interventions may most effectively reduce drug use and promote engagement in substance use disorder care.

COLLABORATOR COMMENTS

"OCTRI informaticists provided essential services to plan and obtain funding for the study including availability of variables and preliminary summary data. As the dataset was being generated, [OCTRI] informaticists provided expertise in the strengths and limitations of the EHR database and guidance to help avoid biases and pitfalls in data analysis and interpretation. This study would not have been possible without the expertise provided by the OCTRI informatics team." – Ryan Cook, PhD, MSPH

QUESTIONS?

To learn more about this work or to get help with your project, please reach out to the OCTRI Navigator: octri@ohsu.edu.

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