CIPHER
CENTRALIZED INTERACTIVE PHENOMICS RESOURCE

Accelerating the use of health data Together.

OUR STORY

Health data is frequently used in research, pragmatic clinical trials, and healthcare operations. Yet defining conditions within the data can be resource and time intensive.

The Centralized Interactive Phenomics Resource (CIPHER), created by phenomics experts at the US Department of Veterans Affairs, provides an innovative solution to optimizing health data sources and the wealth of information contained within them.
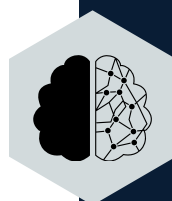
CIPHER provides an online searchable knowledgebase of computable phenotype definitions and data visualization tools. Phenotypes can be thought of as clinical conditions, diseases, or characteristics.

CIPHER's standardized, searchable platform is a public resource that optimizes phenotype reproducibility, consistency, and scalability across health systems.

CALL TO ACTION

CIPHER is made possible due to the contribution of content by an array of health data users. We invite you to join the CIPHER community by depositing your work and helping us achieve our mission!

CIPHER KNOWLEDGEBASE

CIPHER's complex search enables users to identify and compare phenotypes, and select the most applicable definition for their use case. The knowledgebase utilizes the CIPHER phenotype collection standard which incudes version control, and unique phenotype article identifiers.

PHENOTYPE COLLECTION

Our interactive phenotype entry dashboard allow users to submit their phenotypes into the CIPHER knowledgebase. It allows for validation against standard vocabularies (ICD codes, LOINC codes, etc.), the deposit and use of programming code, and direct communication with the CIPHER team.

DATA VISUALIZATION

CIPHER has several visualization tools with direct linkage to phenotypes in the knowledgebase, which allows for in depth exploration of the phenotype metadata. CIPHER also contains tools to assist in phenotype development.

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