Northern Australian Regional Digital Health Collaborative

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Seed Funded Project

Mapping statewide EMR observation records to OMOP CDM to increase interoperability

The project has successfully produced a comprehensive guidance document on how to set up an OMOP CDM environment, addressing a common challenge faced by many green field sites transitioning to OMOP CDM. The OMOP CDM has become the gold standard for establishing a development/test environment, allowing us to configure an environment to support OMOP CDM research projects while awaiting the setup of the production environment.

Additionally, the guidance and scripts provided for generating synthetic EMR data have been instrumental in enabling engineers to start development work while waiting for approval to access real production data from ethical and regulatory perspectives.

The generation of synthetic EMR data also facilitates training and education, allowing users to familiarize themselves with the OMOP environment before it becomes the standard data model for research purposes.

Furthermore, the mapping process guidance has proven valuable for organizations using Cerner as their EMR system, providing clear steps to map their data into the OMOP CDM. This guidance enables a smooth transition to the OMOP CDM, facilitating data integration and analysis.

Project leads: Dr Ahn Lim and Professor Claire Sullivan

Key Messages

The project produced a detailed guidance document on setting up an OMOP CDM environment, addressing common challenges for new sites and providing scripts for generating synthetic EMR data. This supports research development and training while awaiting access to real production data.