

Creating Case Log Reference Database using Student Epic Diagnosis Data

Julia Michels¹, Ashely Khouri MD¹, Boyd Richards¹

¹University of Utah Spencer Fox Eccles School of Medicine

BACKGROUND

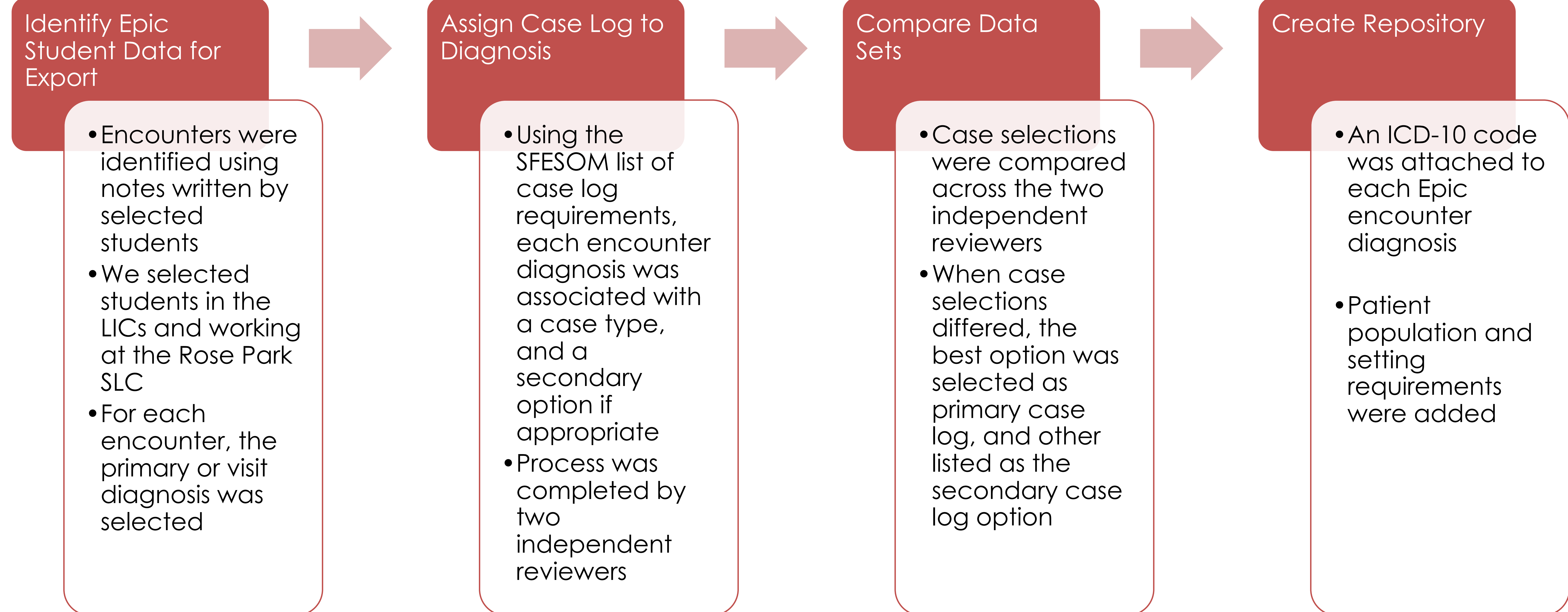
- Medical students must meet minimum patient experience requirements in their clinical year. To track patient experiences, students use a case log in the Internal Tools system. Currently, there is no reference repository to see which case logs other students have previously logged past diagnoses under. The case logging process is arduous and at times confusing when there is no obvious connection between patient experience and case category.

AIM

- The aim of this project is to determine if Epic student data can be correlated with case logs to eventually automate the case logging process.



METHODS



RESULTS



ICD 10 Code (as of Sept 2024)	Diagnosis Name (from Epic)	Primary Case Log	Secondary Case Log
C80.1, G63	Neuropathy associated with cancer (HCC)	Sensory Disfunction (neuropathy, plexopathy, radiculopathy), Any	Longitudinal Cancer, Any
B35.1	Onychomycosis	Skin Neoplasm, Adult	Rash, Adult
B07.0	Plantar wart	Skin Neoplasm, Adult	Rash, Adult
C48.0	Retroperitoneal liposarcoma (HCC)	Pelvic Pain, Any	Skin Neoplasm, Adult
B34.8	Rhinovirus infection	Upper Respiratory Symptoms, Any	GI Infection, Any
B35.3	Tinea pedis, unspecified laterality	Skin Neoplasm, Adult	Rash, Adult
B35.1	Toenail fungus	Skin Neoplasm, Adult	Rash, Adult
B07.9	Viral warts, unspecified type	Skin Neoplasm, Adult	GU Infection, Any
R11.0	Chronic nausea	Abdominal Pain (Chronic), Adult	Pain Syndromes (back p

NEXT STEPS & LIMITATIONS

- Expand data set using additional medical student data in the U of U Health system
- Include ICD-10 code in future Epic data extracts for ease of including in repository
- Make repository database available to LIC students to reference
- Create a sustainable update plan for ICD code updates and future Epic data extracts
- Long Term Goal: create programming to use repository as reference set to create case log for any given student's Epic data export
- Only 3 students' full year clinical data was used for repository creation
- Only the primary or visit diagnosis was selected for export, which limits the data retrieved and breadth of case requirements met in any given encounter

CONCLUSIONS

- Student data can be extracted from Epic to create a case log reference
- Most encounter diagnoses can be associated with a case log
- Initial data suggests that future work can automate the case logging process using the data repository built during the project