

Introduction to MyHarmony



MyHarmony utilize SNOMED CT – harnessing analysis from unstructured data: Discharge Summaries



Refset development

Cardiology

Oral Health Processes & Procedures

Traditional & Complementary Medicine

viculcine

Pharmacy

General medicine →
Global Patient Set







Discharge Summaries from Hospital readily uploaded into MyHarmony

General Medicine refset development : Concepts are vast, requires lots of clinician's time Requirement gathering from clinician – query analysis

Current Situation

Is a managed list of existing SNOMED CT concepts released by SNOMED International – September 2019

General objective: to support the sharing of patient health information coded with SNOMED CT without the need for a SNOMED CT Affiliate license

21783 Concepts in general – chosen from millions of existing concepts in SNOMED CT

Malaysia – startup point for developing General Medicine Refset

Methodology

Cardiology Refset vs GPS Refset on one of hospital data in 2017

Completeness of requirement:
Cardiology KPI 7/8

Quality of data

Hipotesis: Myharmony can generate cardiology KPI using Global Patient Set but with less accuracy

KPI 2A: STEMI case by gender

KPI 2B : STEMI fatality by gender cases

KPI 3A: STEMI with cardiogenic shock cases by gender

KPI 3B: STEMI with cardiogenic shock fatality cases by gender

KPI 4A : Non-STEMI cases by gender

KPI 4B: Non-STEMI fatality cases by gender

KPI 5A: IHD cases undergo cardiac catheterization within same admission

KPI 5B: High risk acute coronary syndrome

KPI 5C: High risk acute coronary syndrome cases undergo cardiac catheterization within the same admission

KPI 6A : Elective percutaneous coronary intervention

KPI 6B : Elective percutaneous coronary intervention with complications

KPI 7A : Permanent pacemaker implantation

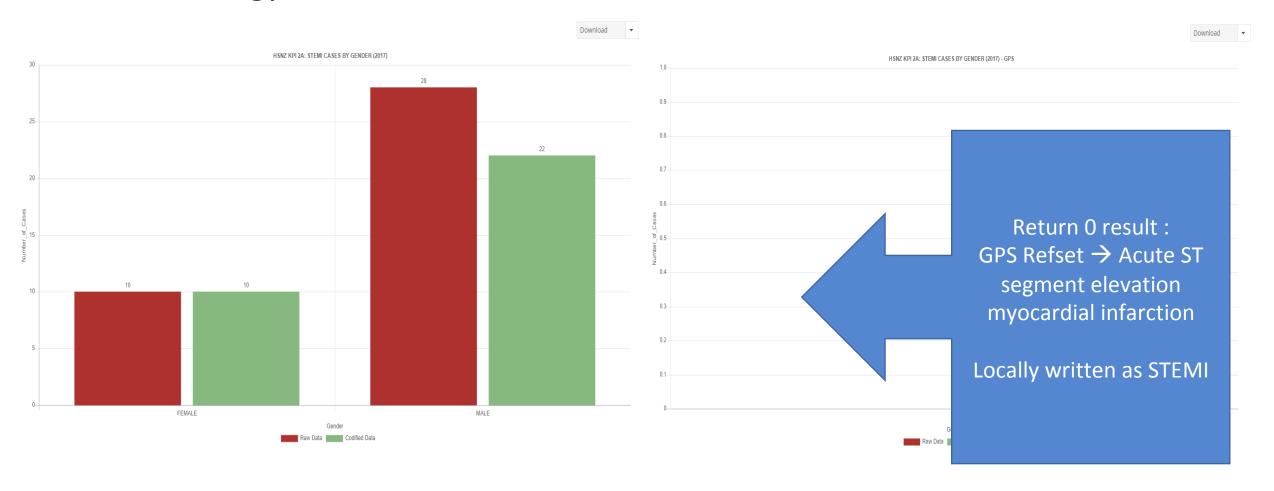
KPI 7B : Permanent pacemaker implantation with infection

KPI 8A: Transesophageal echocardiogram

Cardiology KPI

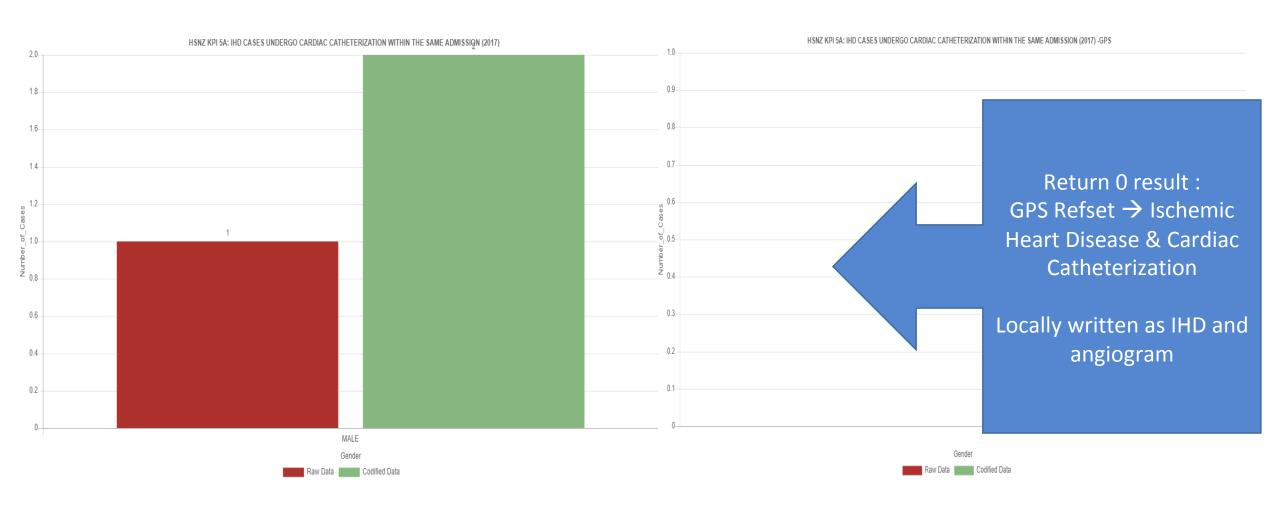
KPI 2A: STEMI cases by gender

Cardiology Refset



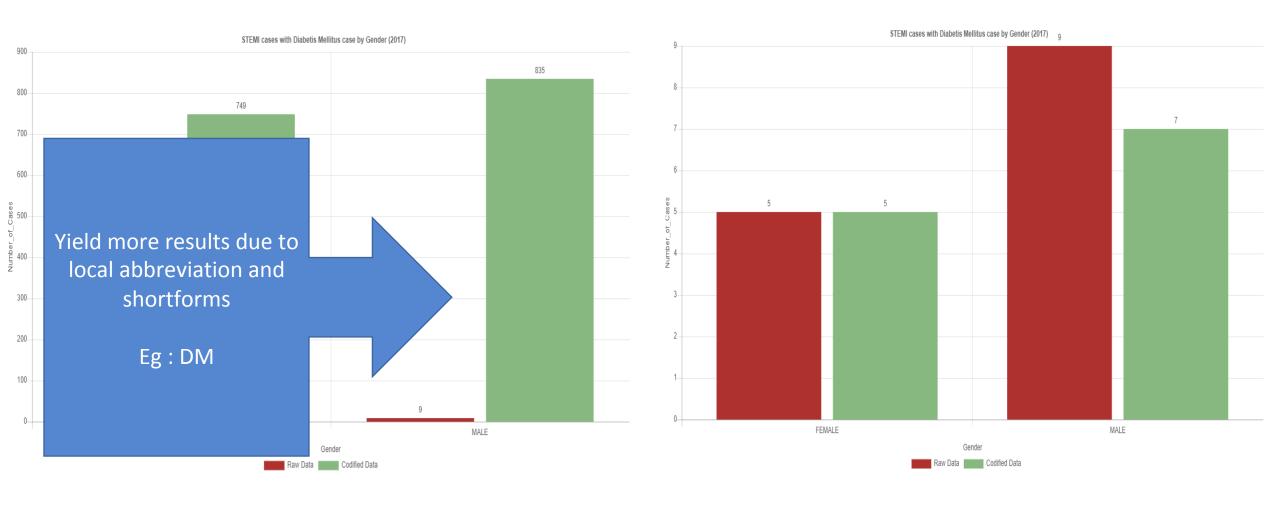
KPI 5A: IHD cases undergo cardiac catheterization within same admission

Cardiology Refset



Diabetis Mellitus case by gender

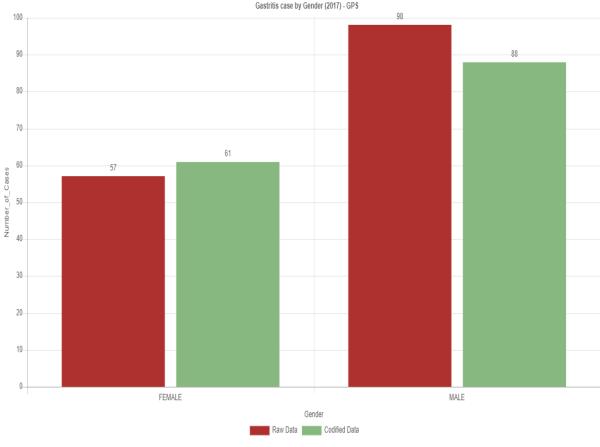
Cardiology Refset



Gastritis case by gender

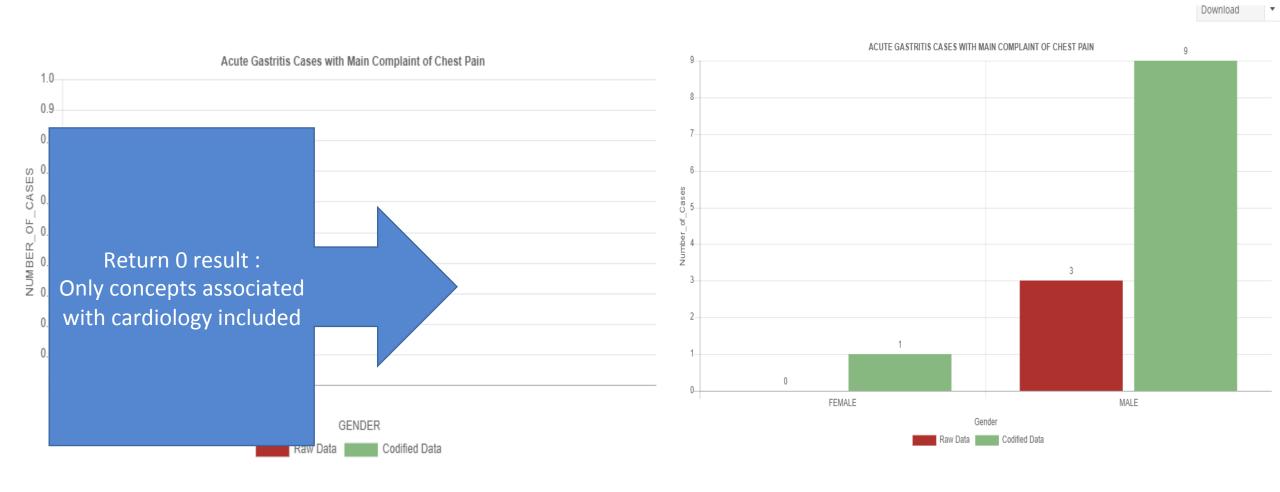
Cardiology Refset





Acute Gastritis Cases with Main Complaint of Chest Pain by gender

Cardiology Refset





Conclusion/ Wayforward

- Global patient set to be the startup point for General Medicine refset development
 - Reduce the time consumed for refset development
- To include abbreviation and shortforms for each concepts in global patient set
- To include services in refset such as inpatient,outpatient,ETC
- Supporting clinician in decision making evident-based