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201908 Driving data quality in primary care - a case study of community development of a common data dictionary, SNOMED CT value sets and FHIR IG for primary care in Australia

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Summary

Driving data quality in primary care - consensus based community development of a core common data dictionary, SNOMED CT value sets and FHIR IG for the exchange of patient records in primary care in Australia.

Audience

Clinical, Policy/administration, Technical

Learning Objectives

1. Explore how a community approach supports the development and adoption of SNOMED CT value sets and FHIR.
2. Understand an approach to clinical education in improving data quality.
3. Understand a process for engaging and supporting vendors in SNOMED CT and FHIR adoption.

Abstract

Improving data quality in primary care is a core foundation to ensure interoperability and meaningful use of information whether it is for individual or population management, point to point or point to share communication, decision support or analytics.

A greater level of structure and standardised coding within a practice record will improve both the quality and utility of data at the point of care. This will provide better functionality for decision support such as drug allergy, or drug condition alerts and support the identification and better management of those patients at risk or with chronic conditions.

This presentation will provide a case study on a programme which was delivered over a 12 month period whuc involved a series of collaborative projects with the clinical profession, software industry and national standards organisations to define the data standards in primary care to support better clinical outcomes, enhance the usefulness of information in the practice record and improve interoperability of health information shared with other health care providers and organisations.

The aim of the programme was to support single provision of information for the primary purpose of care as well as support multiple use of this data for exchange or data extract purposes.

The success of the projects were dependent upon reaching consensus with the profession and industry of the core clinical information which needs to be consistently recorded by the Clinician (in a structured and coded format) in the practice record and exchanged by the practice system in a standard format.

There were three key projects which delivered foundations to support improvements to data quality in primary care. The projects were complimentary and designed to address the data quality challenges ranging from data standards to education and training and targeting support for the primary care practices, practice software systems and data extract providers.

This project focussed on input data specifications, as well as exchange specifications and encouraged the implementation of SNOMED CT as an interface terminology in primary care clinical information systems, supporting maximal value sets with good search interfaces.

The outputs of the project include:

1. Primary Care Data Dictionary and associated SNOMED CT value sets.
2. FHIR Implementation guide which supports the exchange of the core common data set for a practice to practice record transfer with associated SNOMED CT Value set bindings
3. Clinician education and training material
4. Support for vendor implementation and migration.