Analytics and Clinical Decision Support with SNOMED CT

Presenters

Linda Bird, Jon Zammit and Peter Hendler, SNOMED International

Audience

Vendors, clinicians, project managers and developers.

Abstract

SNOMED CT enables effective data analytics and clinical decision support (CDS) using its concept-based design, hierarchical structure and formal concept definitions.

This tutorial explains a range of techniques that can be used to perform data analytics and CDS using SNOMED CT encoded data. A Health Data Analytics demonstrator will then be presented, which applies these techniques to some clinical scenarios.

Objectives

After attending this tutorial, the participant should be able to:

- Describe some approaches for preparing clinical data for analytics
- Describe a range of techniques for performing data analytics using SNOMED CT
- Explain the logical design of a CDS system, and how SNOMED CT can be used in each component
- Discuss a range of implementation considerations when using SNOMED CT in a CDS solution
- Describe some clinical scenarios in which SNOMED CT can support effective analytics

References

- Data Analytics with SNOMED CT - http://snomed.org/analytics
- Decision Support with SNOMED CT - http://snomed.org/cds
- SNOMED CT Expression Constraint Language - http://snomed.org/ecl

Tutorial Handout

SnomedCtExpo_..._20181019.pdf