



SNOMED CT in Big Data and Analytics: Where we are and Where we are going?

Presenter: Brian Levy MD, CMO Health Language

Audience

The audience of this presentation includes providers, payers, and HIT vendors interested in the benefits of using SNOMED CT for analytics.

Objectives

The audience will be able to identify areas today where SNOMED CT will benefit their Big Data and analytics initiatives, realize the potential for

Abstract

Big Data and Analytics are the latest buzz words in the healthcare IT industry. As we consolidate and standardize the tremendous volume of patient related data, the industry of course wants to analyse, report, and share this information accordingly. In the past, much of healthcare Big Data was unstructured or filled with vague billing codes. But now with the adoption of Meaningful Use and other national initiatives, payers, providers, and vendors will increasingly have access to SNOMED CT in their data warehouses. Many institutions are at the early phases of actually storing and performing analytics with SNOMED CT through their EHRs. But the future will be much broader than just data capture from the EHR.

Big Data is the huge volume of structured and unstructured data contained in millions of healthcare insurance claims, charts, EHRs, labs, hospitals, clinics, etc. With increased adoption of Meaningful Use in particular, we will see the rapid acceleration in documenting problem lists with SNOMED CT. Many HIT vendors, providers, and even payers are now beginning to ask the questions of what they can do with these SNOMED CT codes besides support interoperability. This presentation will highlight existing analytics use cases and example case studies involving access to third party decision support through SNOMED CT, identifying and triggering quality measures, and supporting disease management.

The adoption of EHRs is just the tip of the iceberg for increased data capture. Personal Health Record (PHR) portals will increasingly enable patient driven data input. Medical devices now also contain results and findings. The Do It Yourself (DIY) market includes home test kits such as cholesterol monitoring, blood sugar testing, heart monitoring and more. All of these ancillary healthcare service access points should include the same terminology standards including SNOMED CT that we are using in the EHR. This presentation will include examples and recommendations about the use of SNOMED CT in these next generation HIT applications.

SNOMED CT will play a large role in Big Data analytics if we continue to pave the way for its adoption and use.