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201933 SNOMED to ICD-10 mapping for implementation in disease registries

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Summary

This paper demonstrates the completeness and gaps in mapping of SNOMED CT to ICD-10 coding for reporting non-communicable diseases particularly diseases of cardiovascular system, diabetes and neoplasms.

Audience

Policy/administration, Research/academic, Technical , health managers, national and international players in disease surveillance

Learning Objectives

1. Assess SNOMED CT and ICD 10 as disease classification systems
2. Understand the completeness of SNOMED terms for ICD 10 mapping
3. Use knowledge to develop robust MAP system for disease reporting and classification

Abstract

The mapping from SNOMED CT to International Classification of Diseases – 10 (ICD-10) has been created to support the wide clinical content allowing for flexible data entry and linking of disease terms to ICD-10. The ICD-10 is a standard and internationally accepted classification system for reporting, used for mortality statistics, cancer registries and disease burden studies. The National Cancer Registry Programme (NCRP), India has been using the ICD-10 for reporting cancer statistics according to international standards (1). The Electronic Health Record standards (2) includes SNOMED for recording primary terminology of disease terms. The Morphology of Neoplasms, which is a nomenclature of codes designed for use in conjunction with Chapter 11 Neoplasms, has not been included in the MAP (3). Thus the SNOMED CT to ICD 10 mapping needs to be examined prior to its integration to disease registry systems like the NCRP. The paper will explain the mapping process and completeness of ICD-10 to SNOMED CT for disease registries especially cancer and other non-communicable diseases.

The CSNOtk tool provided by the National Release Centre of Electronic Health Record standards (NRCeS) (4), India was used to fetch the database dictionary of SNOMED terms and the MAP tool integrated within was used to fetch the ICD-10 terms. The database was analyzed by ICD-10 codes for neoplasms for the completeness and limitations. List of unmapped ICD-10 terms for Neoplasms and SNOMED CT terms that are inappropriately mapped or described to the neoplasms are also examined.

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Mapping system help in standardizing the translation of coding systems and improves coding accuracy, especially in the context of the global preparedness for ICD-11 classification.

Reference Documentation

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