Construction of Local Terminology Dictionary in NM Imaging Report Forms

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Abstract

It is difficult to settle the well-designed local terminology for imaging report in the hospital information system (HIS). One of the major reasons is the local terminology with poor contents have been used in the hospital. Thus, we mapped the locally used terms in nuclear medicine imaging report to the SNOMED-CT, which had been widely used in the electronic medical record system, for implementation of hospital information system. Preliminary construction of terminology dictionary was done by mapping of local terms to SNOMED-CT and LexCare Suite. Further study may be warranted.

Keywords: Local terminology, SNOMED-CT, electronic medical record

Introduction

It is difficult to settle the well-designed imaging report terminology in the hospital information system (HIS). One of the major reasons is the local terminology with poor contents have been used in the hospital\cite{9}. Thus, we evaluated the interchangeability of the imaging report terminology used in our institute, mapping the imaging report terms to the well-established reference terminology, SNOMED-CT system and constructed the preliminary local terminology dictionary for implementation in the hospital information system (HIS).

Materials and Methods

We mapped our local imaging report terms with the SNOMED-CT terminology system, using CliniClue Browser (0901Intl), by two physicians. CiDD editor \cite{2} and LexCare Suite \cite{3} were used for the terms having corresponding Korean terms. Mapping results were classified into lexical, semantic, post-coordination and no mapping, and analysed.

Results

The mapping of the imaging terminology data dictionary (ITDD) with the SNOMED-CT terminology system has been being undertook using CiDD editor and Lexcare Suite. Preliminary results of mapping shows that most terms were mapped semantically and by post-coordination (70%), a small proportion of terms lexically (23%), reflecting the difference between the clinical and imaging report terms. good, but, more detailed results and local terminology dictionary will be obtained after the full mapping is accomplished. More studies are under testing.

Fig 1. Illustration of mapping of the local imaging report terms to the SNOMED terminology system,

Acknowledgments

The authors thank Joo-Young Kim Gachon University Gil Hospital for the help of mapping of imaging report terms.

References

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\cite{3} Open Health Tools of center for EHR: Lexcare Suite,

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