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Conference topic(s) most suited to the paper: Confronting Obstacles in Accessing Grey Literature

Keywords: General Practice, Terminology, Abstracting and Indexing as Topic, Open Access Publishing, Grey Literature

Abstracts: (count; 400 words)

Title of proposed paper: Indexing grey multilingual literature in General Practice in the era of Semantic Web

Problem/Goal: Sharing the results of research with General Practitioners (GPs) is crucial for the survival of the discipline of General Practice / Family Medicine (GP/FM). The production of abstracts in GP/FM exceeds 15,000 per year worldwide. Each abstract often represents two years of work for its authors and is expressed in local languages. Only 45\% of them are published in indexed medical journals. Usual indexation systems like MeSH are not multilingual nor adapted to the particular field of GP/FM. Consequently, these abstracts are lacking bibliographic control and more than half of the research presented by GPs at congresses is lost. Considering the absence of appropriate domain-specific terminologies or classification systems, which could be exploited to effectively and efficiently support the indexing process (i.e., via automation), we propose a new multilingual indexing system. The existing International Classification of Primary Care (ICPC) is currently used for clinical purposes and has now been expanded with a taxonomy related to contextual aspects (called Q-Codes) such as education, research, practice organization, ethics or policy in GP/FM, currently not captured. The set is proposed under the name Core Content Classification in General Practice (3CGP). The aim is to facilitate indexing of GP/FM specific scientific work and to improve performance
in information storage and retrieval for research purposes in this field.

**Research Method/Procedure:** Using qualitative analysis, a corpus of 1,702 abstracts from six GP/FM-related European congresses was analyzed to identify main themes discussed by GPs (as continuity, accessibility or medical ethics), handled in a domain-specific taxonomy called Q-Codes and translated in 8 languages. In addition, a methodology for building a lightweight ontology (in OWL-2) was applied to Q-Codes, adding object and datatype properties to the hierarchical relations, including mapping to the MeSH thesaurus, Babelnet (www.babelnet.org) and Dbpedia. Finally, the ICPC-2 in 19 languages and Q-Codes in 8 languages have been integrated in a healthcare terminology service (www.hetop.eu/q) with a companion website (http://3cgp.docpatient.net).

**Anticipated Results of the Research:** The creation and the on-line publication of this multilingual terminological resource for indexing abstracts and for facilitating Medline searches could reduce loss of knowledge in the domain. In addition, through better indexing of the grey literature (congress abstracts, master's and doctoral thesis), we hope to enhance the accessibility of research results of GP/FM domain and promote the emergence of networks of researchers. First result of experimental implementations of the new indexing system will be presented.

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