

Preprocessing structured clinical data for predictive modeling and decision support

A roadmap to tackle the challenges

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In the original article by JC Ferrão et al.: „Preprocessing structured clinical data for predictive modeling and decision support – a roadmap to tackle the challenges“, ► Table 5 was missing and is presented here.

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Table 5 Key usability and acceptability features of structured EHR data (summarizing information from [79, 80]).

Feature	Description
Efficient search mechanism	Make effective use of search terms, allowing users to search concepts by different terms and synonyms, while considering variations in acronyms and special characters
Relevant search results	Only display search results with relevance to a specific context
Logical ordering of terms	Display terms and search results in a meaningful order (e.g. alphabetically and/or grouped according to relevant categories)
Concept lookup enhancement	Include intelligent functionalities to facilitate concept lookup such as instant search boxes, efficient navigation panes and selective term filtering
Group concepts into appropriate categories	Group concepts into meaningful categories, recognized by users to facilitate guidance
Preferred and clear designations	Make use of unambiguous and clear designations with which health professionals are familiar
Clear synonyms and abbreviations	Make use of appropriate synonyms and only include clear and unambiguous acronyms recognized by most or all users
Exhaustive but relevant concepts	Provide exhaustive selection of terms for users to choose how to best convey a given concept; include only relevant concepts in order to minimize overload of information