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Data Article

Data for the elaboration of the CIPROS checklist with items for a patient registry software system: Examples and explanations



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ABSTRACT

The data presented relates to the publication “Enhancing Requirements Engineering for Patient Registry Software Systems with Evidence-based Components” (Lindoerfer and Mansmann, 2017) [1], which describes the strategy behind the development of the CIPROS checklist. This manuscript also compares CIPROS with general requirements specification templates, and standards. The data is shortly described in Section 2.4 and presented in Appendix A. The examples represent the material extracted from the literature used in qualitative analysis. The explanations summarize the example contents from which the CIPROS checklist was created.

Patient registries are a crucial part of medical research. High quality registries use efficient information systems software selected from a wide variety of existing software solutions.

An efficient selection process requires focused selection criteria. The evidence-based CIPROS checklist [2] accelerates this requirements engineering process.

CIPROS was developed in a multistep procedure: (1) A systematic literature review provided an exhaustive collection of relevant publications (64 articles), (2) a catalogue of relevant criteria was derived by a qualitative content analysis, and (3) the checklist containing 72 items was composed which provides a minimal appraisal standard.

The data presented per checklist item provide the relevant textual information (examples) and a first qualitative summary (explanation).

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The examples and explanations provide the background information on CIPROS. They elucidate how to implement the checklist items in other projects. The literature list and the selected texts serve as a reference for scientists and system developers.

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Specifications Table

Subject area	<i>Medical informatics</i>
More specific subject area	<i>Patient Registry Software Systems</i>
Type of data	<i>Examples and explanations from which the CIPROS Checklist items are derived and which elaborate the CIPROS Checklist items demonstrative and detailed.</i>
How data was acquired	<i>Examples are chosen from the literature, explanations are created by the authors.</i>
Data format	<i>Text</i>
Experimental factors	<i>Examples are cited from reference papers, explanations are created by the authors.</i>
Experimental features	<i>Examples and explanations may inspire scientists and system developers how to implement the CIPROS checklist items in own projects. Examples and explanations of each Item of the CIPROS checklist can serve as reference book for scientists and system developers how to implement the items in own projects and systems.</i>
Data source location	<i>Examples are cited from the reference papers. Explanations are created by the authors. Reference papers are cited.</i>
Data accessibility	<i>The data are part of this article they are presented in Appendix A. We linked the respective CIPROS checklist Items directly to the examples and explanations in the elaboration part. This is a perfect way to make the elaboration part of the CIPROS checklist items directly accessible to the readers in a comfortable way.</i>

Value of the data

- A collection of references and examples how patient registries are implemented and used in the medical research community.
- Examples and explanations represent a wide range of practices, and provide the practical background how to implement CIPROS items in projects.
- The examples provide the raw data used to derive the CIPROS checklist.
- The structured collection of examples supports decision makers and developers to formulate project requirements and explain how to implement CIPROS.
- The data presented are a reference book for scientists and system developers on how to implement the features in their own projects.

1. Data

CIPROS is the result of a qualitative text analysis. This paper presents the qualitative data used for this process. It was created via a systematic review (see [Section 2.1](#)) which identified 64 relevant publications. These were read and qualitative information on relevant aspects was extracted. Therefore the data consists of citations from the analyzed papers (referred to as examples) and represent information describing individual aspects of systems and software structures for patient

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