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Facilitating the Identification of Appropriate Patient-Centered Outcome Measures (PCOMS) in Rare Disease (RD) Clinical Research Using Functional Impacts Matching

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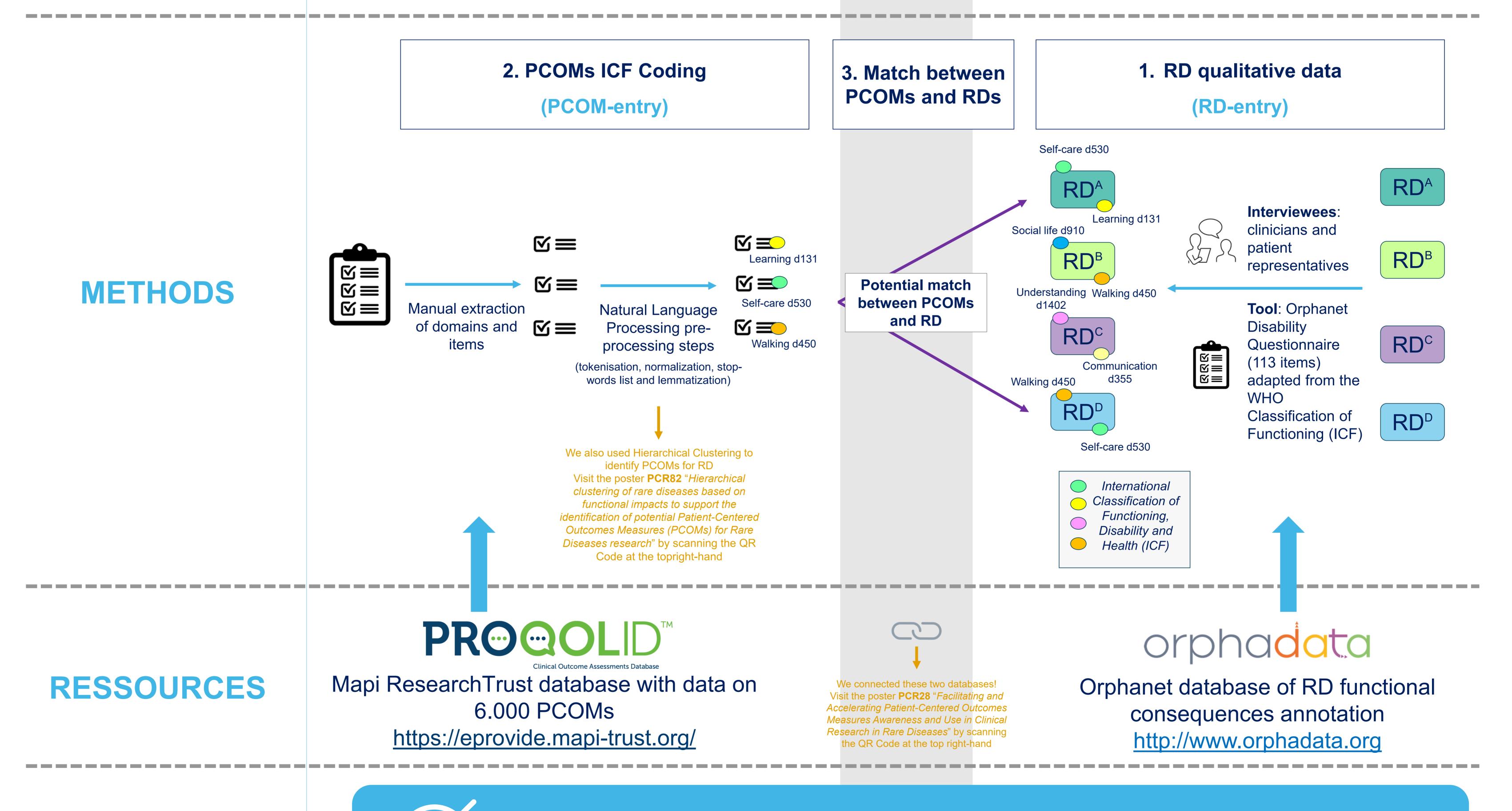
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MAIN OUTCOMES:

- Items and domains of 1132 PCOMs were selected for ICF coding
- Algorithm to automatically ICF-code PCOMs was developed using Natural Language Processing
- Next steps: Validation of the algorithm matching PCOM items/domains and ICF codes
- Impact: This work is a very promising step for the development of a PCOMs RD database to support the use
 and the adaptation of existing PCOMs and turn RD patient experience into meaningful and comparable data

RESULTS

- RD-entry: 551 RD were indexed and ICF-coded by Orphanet
- PCOMs-entry:
 - o 1132 RD-specific, function-specific and disease area-specific PCOMs were selected for ICF-coding
 - Collection of PCOMs domains and items is on-going
 - NLP pre-processing steps were completed and NLP algorithm finalized
 - Next steps: NLP-allocated ICF codes of PCOMs will be quality checked by two reviewers



OBJECTIVE

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CHALLENGES

Identify existing PCOMs suitable for RDs based on functional impacts similarities

The lack of specific validated PCOMs in RDs is a strong limitation in patient centric clinical research and development of disease specific PCOMs for more than 7,000 RDs is not a realistic objective