

Abstract

Title: Mobile ICanFunction app for users to self-report life situation before accessing social and health care

Type of presentation: oral session or, if possible, a workshop together with Christina Warrer Schnohr, Evalill Nilsson and John Chaplin and their studies on patient reported outcomes (PRO).

Authors: Heidi Anttila 1, Kaisa Kokko 1, Sinikka Hiekkala 2, Jaana Paltamaa 3, Petteri Weckström 3 and members from the International mICF Partnership.

1 National Institute for Health and Welfare (THL); Welfare department; Ageing, Disability and Functioning Unit, Helsinki, Finland

2 The Finnish Association of People with Physical Disabilities (FPD), Helsinki, Finland

3 Jyväskylä University for Applied Sciences, Jyväskylä, Finland

Keywords: needs assesment, patient reported outcomes, functioning, disability, ICF, PROMIS, mobile, interoperability

Background: 15 % of the world population experience disabilities in their daily life, 2-4 % severe (World Bank & WHO, 2011). Their everyday challenges and service needs are not easily transferred to social and health service providers. The Finnish eHealth and eSocial Strategy promotes information collection directly from citizens to support well-being and service renewal. Funded by the Social Insurance Institution (Kela), we aim to develop a tool for disabled citizens to enable them to report their life situation by using lay language and Patient Reported Outcome Measures (PROM).

Methods: A first prototype (Proof of Concept, PoC) of the mICF (mobile ICanFunction) for person-centered assessment of functioning and environmental factors was designed on the ICF (International Classification of Functioning, Disability and Health), and the PROMIS (Patient Reported Outcomes Measurement Information System). The development methods were user-centered, based on service design principles and agile prototyping. The front-end design was user driven co-creation of interface for children and adult users. The back-end development was expert driven: linking natural language to ICF terms (ongoing work in Danish, Dutch, English, Finnish, German and Portuguese using FunctionMapper Software), and translating PROMIS Adult Physical Function and Pediatric Mobility item banks. User feedback is being collected from the app and in individual and focus group interviews, and analyzed by triangulation.

Results: Results are pending and will be presented. The mICF beta version was available in Playshop and Appstore in August 2016. Children, youth and adult users using public health services test use the app, report their life situation, and get a summary to communicate their needs with their service provider. Feasibility and user acceptance testing is ongoing with children, youth and adults with severe disabilities and their service providers. The expected results for users are easier and more reliable self-assessment as well as clearer communication with health care professionals. For professionals mICF can provide a quick summary of the service user's life situation.

Conclusions: mICF will play an important role in reaching the current needs for shared decision-making and goal-setting in public social and health care. PROMIS integrated to the mICF solution will enable standardized, precise and reliable self-reported information of functioning and symptoms. Next steps include translation of more PROMIS item banks and the PROMIS API, as well as sustainable business model and integration to National PHR using the generic functioning information model and national interoperability standards.

References:

This Study is part of a bigger International project designed by International mICF Partnership, as part of the strategic work plan of the WHO Family of International Classifications Functioning and Disability Reference Group.

Anttila H, Mäkelä M, Vuokko R, Mäkelä-Bengs P. Generic information model creates a basis for structured documentation of a person's functioning in EHR and PHR. Poster Booklet WHO-FIC Network Annual Meeting 8-12 October, Tokyo, Japan (Poster C507). Poster
<http://www.who.int/entity/classifications/network/meeting2016/2016_WHO-FIC_Poster_Booklet.pdf>
Booklet - World Health Organization<http://www.who.int/entity/classifications/network/meeting2016/2016_WHO-FIC_Poster_Booklet.pdf>

Anttila H, Paltamaa J, Hiekkala S Weckström P. Towards user-oriented mobile self-assessment tool ICanFunction (mICF). Poster Booklet WHO-FIC Network Annual Meeting 8-12 October, Tokyo, Japan (Poster C513). Available at:
http://www.who.int/classifications/network/meeting2016/2016_WHO-FIC_Poster_Booklet.pdf?ua=1

Anttila H, Maribo T, Kraus de Camargo O, Coenen M, et al. A new dynamic tool for mICF content development – the FunctionMapper. Poster Booklet WHO-FIC Network Annual Meeting 8-12 October, Tokyo, Japan (Poster C512). Available at:
http://www.who.int/classifications/network/meeting2016/2016_WHO-FIC_Poster_Booklet.pdf?ua=1

Snyman S, Kraus de Camargo O, Anttila H, Stallinga G, et al. Progress Report: ICanFunction mHealth Solution (mICF). Poster Booklet WHO-FIC Network Annual Meeting 8-12 October, Tokyo, Japan (Poster C511). Available at:
http://www.who.int/classifications/network/meeting2016/2016_WHO-FIC_Poster_Booklet.pdf?ua=1

International mICF partnership website: www.ICFmobile.org<<http://www.ICFmobile.org>>

Finnish project website: www.thl.fi/en/mICF<<http://www.thl.fi/en/mICF>>