Background

Patient Reported Outcome Measures (PROMs) are tools used to routinely measure subjective outcomes directly from patients during health care or treatment and are an effective way of determining an individual's changing needs.

Phase 1

Digital technologies have increasingly enabled PROMs to be self-reported by patients and collected remotely though this can be a major barrier to People with Dementia (PwD) who often struggle using electronic devices.

Phase 2

Co-Designing a digital solution using Patient Reported Outcome Measures for People with Dementia

CAPITA



Phase 4

David Kernaghan*, Roma Maguire*, Kieren Egan*
*Digital Health and Wellbeing Group (DHaWG), University of Strathclyde

Phase 3

Results Aim & Methods Conclusion A total of 33 prototypes were developed Control "to co-design, develop and evaluate a novel digital application to enable People with 4 iterative co-design phases Dementia to regularly self-report Quality of Life Patient Reported Outcome Measures" Simplified +P1.1 QOL-AD Questions resulting in a final functional prototype -P1.2 DEMQOL This Qualitative Research Project co-designed, Initial developed and evaluated multi-modal (text, Research visual, voice) prototypes directly with PwD. **Testing** Prototyping Text Using an iterative co-design methodology, -Pl.3 Multipage List PwD were directly involved in every stage of Larger & -P1.4 Solo List **Bolder Fonts** development process, from initial -Pl.5 Multipage Bar **Analysis** Product concepts to functional prototypes, voting for +P1.6 Solo Bar Release Box Grid each feature included. -Pl.7 Multipage Square Display -P1.8 Solo Square Users highlighted the importance of personalisation with user accessible Interactive Options features to turn colours or voice on/off Visual and skip or exclude questions being key. +P2.1 Audio Visual +Pl.9 Hover +P2.2 Tracking Display +Pl.10 Colour Adaptive Existing dementia PROM terminology Responses -P2.3 Zoom Colour -Pl.11 Icons was deemed inappropriate and non--P2.4 Pan -Pl.12 Pictures inclusive with significant changes needed. -pl.13 Likert Refine Words -pl.14 Slider Preferences for text-based modalities Questions Results with limited visuals. Voice modalities were +P3.1 Questions Limit Voice universally disliked. Features -P2.5 Results +P3.2 Answers Verbal -P2.6 Answers Users were keen on being in control of -P2.7 Aggregated +P1.15 Voice Short their own data, requesting access rights +P2.8 Listed +Pl.16 Voice Medium Voice Visual charts to their results as well as the ability to +P2.9 Chart +P1.17 Voice Long choose who and when to share the data. -P3.3 Voice +P2.10 Line Requests Results Page → Data Sharing MultiModal Refine Multi Modal Final Questions Functional +P1.18 Results User Prototype +P3.4 Pre-Production +P2.11 Share +P4.1 Beta Autonomy +Pl.19 Data sharing Share Page