A feasibility study to evaluate and refine COMPASS: a Stratified remote monitoring tool for health and digital literacy in COPD.

What is the acceptability and suitability of a digital baseline assessment tool for stratification of remote and clinician led disease monitoring in people with COPD?

The COMPASS tool is a digital decision tool/iphone application for people with COPD and clinicians to enable selection of appropriate preventive care pathway's (digital, clinician and mixed) for supported self-care. COMPASS is a stepped assessment combining and ranking three validated questionnaires.

• Assess literacy levels (National assessment of adult literacy (NOW)
• Assess health literacy - Rapid Estimate of Adult Literacy in Medicine (REALM)
• Assess digital literacy – digital skills assessment tool (DSAT)

to then suggest the appropriate clinical support to best utilise remote digital monitoring tools (Eupnoos | Digital health| Respiratory disease) the assessment will direct people to one of three pathways tailored to individual literacy. Figure 1.

This prospective mixed methods feasibility study will recruit primary care clinicians, people with COPD and family, attending primary care (when self-management advice is provided) in sites across the Southwest of England, the research team will use experienced based co-design; video recording consultations and conducting follow-up interviews with people with COPD and clinicians. This will be supported by a digital questionnaire to assess fidelity. Qualitative data will be reviewed with study participants, a further discourse co-created and then a narrative analysis of the resulting discourse, and films. The questionnaires will use narrative analysis and employ a framework approach to group suggested changes for adaption of the COMPASS intervention. Triangulation of the quantitative data with the narrative analysis will enable the intervention to be adapted as necessary during the study to achieve the ideal and most promising format.

Proposed outcomes: A co-developed digital health stratification tool to support clinical decision making on the use of digital support tools for patient suitability for remote disease monitoring in COPD.

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