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| **Perx-R app for pulmonary rehabilitation: User experience testing** |
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| **Introduction/Aim:** A mobile pulmonary rehabilitation app (m-PRTM) was developed and is available on the Perx Health digital platform as Perx-Respiratory (“Perx-R”). Perx-R enables people with chronic respiratory disease (CRD) to undertake a pulmonary rehabilitation (PR) program and support self-management of their condition. The aim of this study was, in people with CRD, to determine the ease of use and satisfaction with the Perx-R app.  **Methods:** Participants with CRD were recruited from PR programs at three sites in Sydney. Participants were educated on the Perx-R functions (PR with education and exercise videos, goal setting, health coaching with text messaging, medication reminders, symptom monitoring) and used Perx-R for 4-8 weeks. At baseline, participants completed a purpose-designed survey to assess their level of technology engagement. At follow-up the System Usability Scale (SUS), a satisfaction survey, and a semi-structured interview were used to gain participants’ feedback.  **Results:** Eleven participants with CRD completed follow-up (mean age 74 yrs (SD 12), FEV1 78% predicted (SD 16), 55% female). 73% self-rated their technology skill as ‘good’/‘very good’. The SUS score of 68 (SD 16) demonstrated high perceived usability of Perx-R. The satisfaction survey indicated that 73% (n=8) of participants found using Perx-R ‘enjoyable’/’very enjoyable’. Most participants found the Perx-R functions were ‘somewhat easy’ or ‘very easy’ to use (range 80-100%) and ‘somewhat helpful’ or ‘very helpful’ (range 82-90%). Open ended responses on the satisfaction survey together with the transcribed interviews indicated that participants found the medication and exercise/activity reminders particularly helpful, and that the technology motivated them to complete health tasks. 91% of participants indicated they would be happy to use Perx-R as part of a future PR program.  **Conclusion:** User experience testingis an important way to evaluate mobile health technologies. The Perx-R app was easy to use and was well accepted by people with CRD so should be considered for implementation in PR programs in Australia.  **Grant Support:** REDI Fellowship |