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| **Screen2Quit: Engagement with a remote smoking cessation smartphone app randomized controlled trial in persons eligible for lung cancer screening** |
| Jenny Peek 1,2, Peter Vardon 1, Linda Passmore 1, Harry Peek 2, Ian Yang 1,2, Emily Stone 3, Renee Manser 4, Paul Fogarty 5, Fraser Brims 6, Annette McWilliams 7, Coral Gartner 8, Leanne Hides 8, Sheleigh Lawler 8,  Kwun Fong 1,2 , Henry Marshall 1,2 |
| *1 Department of Thoracic Medicine, The Prince Charles Hospital, Brisbane Queensland*  *2 University of Queensland Thoracic Research Centre, Brisbane Queensland*  *3 St Vincent's Hospital, Sydney New South Wales*  *4 Royal Melbourne Hospital, Melbourne Victoria*  *5 Epworth Hospital, Box Hill Victoria*  *6 Sir Charles Gairdner Hospital, Perth Western Australia*  *7 Fiona Stanley Hospital, Perth Western Australia*  *8 University of Queensland, Brisbane Queensland* |
| **Introduction/Aim:** Lung cancer screening (LCS) benefits are enhanced by effective smoking cessation (SC). Smartphone apps may be a scalable method of delivering SC support but remain untested in LCS. Screen2Quit RCT (“S2Q”, ACTRN12622000990729) is the first SC app trial in this population. S2Q opened recruitment in July 2023, with other International Lung Screen Trial (ILST) and Australian Lung Screen Trial (ALST) sites to follow. We report early results on uptake.  **Methods:** Queensland ILST participants were invited via SMS or email to complete online eligibility check and electronic consent (current smoking within 30 days; smartphone and computer access; app download ability; not currently using a SC app). Participants were randomised 1:1 to intervention (‘Screen2Quit’ app, a research version of the Department of Health’s 'My QuitBuddy') or control arm (Health Department internet cessation resources, QuitHQ’). Electronic links to the respective cessation resources were sent with no on-boarding assistance.  **Results:** 570 invites were sent over 22 days. 148 (25.9%) invitees visited the trial database and 114 (20%) completed eligibility assessment. 34/114 (29.8%) people currently smoked. Of these, 17/34 (50%) were eligible and randomized. Ineligibility reasons included one or more of: no access to smartphone (n=2, 5.9%) or computer (n=3, 8.8%); unable to download apps (n=5, 14.7%). Of those randomized, median age was 64 years, 11 (64.7%) were female, median cigarettes per day was twenty. 13 participants smoked within 30 minutes of waking and 13 had no specific plans to quit smoking. In the intervention arm, 6 of 9 people downloaded and used the S2Q app.  **Conclusion:** These early results indicate high volume electronic invitation was feasible over a short time. 20% of invitations resulted in an eligibility assessment and half of people who currently smoked were eligible. Two thirds randomized to the intervention downloaded and used the app. SC apps may have a role in LCS.  **Grant Support:** |