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| **Lung cancer screening eligibility in Quitline Clients** |
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| **Introduction/Aim:** Australia willimplement its National Lung Cancer Screening Program in 2025 (NLCSP). Patient-centered lung cancer screening (LCS) should offer multiple, diverse entry points for people at risk. Recruitment to LCS via Quitline should be explored because 1) excellent client reach/ease of access (by telephone); 2) high client interest in behaviour change (motivated to quit smoking); 3) possible reciprocal benefit of LCS on smoking cessation outcomes. We hypothesise that Quitline clients represent a high-risk cohort. We aimed to explore lung cancer risk in clients of Statewide Quitline services.  **Methods:** We analysed anonymised administratively collected data (FY2021/22) from Quitline services in QLD, VIC, NT, SA and WA. We applied three eligibility models (MSAC [age min-age max-min pack years-max quit years], 50-70-30-10], USPSTF2021 [50-80-20-15] and PLCOm2012 [11 variables; threshold ≥1.51% 6-year lung cancer risk]). Inclusion criteria: aged >=18 years, currently smoking, first Quitline contact. We performed complete case analysis using available variables in dataset (age, ethnicity [Indigenous/non-Indigenous; coded non-indigenous if missing], cigarettes/day, smoking duration). The following variables were not collected and were imputed as negative/base-risk to achieve a conservative (lower) PLCOm2012 risk estimate (education level, BMI, COPD diagnosis, personal or family cancer history). We used post-code to estimate remoteness and socioeconomic index (SEIFA).  **Results:** 8519 adult clients had their first Quitline contact in FY2021/22. 6737 had data available for complete case analysis (n=705 Indigenous [10.5%]). 2546 (37.8%) were aged 50-80 years. Stratified by ethnicity, 18-33% of clients would be eligible for LCS (Table). Of the MSAC eligible clients, 64% had socioeconomic advantage (SEIFA) below national median and 14% lived in remote/very remote postcode areas.   | **LCS eligibility model** | **Eligible Non-indigenous** | **Eligible Indigenous** | **Total eligible** | | --- | --- | --- | --- | | MSAC | 1,444 (24%) | 129 (18%) | 1,573 (23%) | | USPSTF2021 | 1,980 (33%) | 168 (24%) | 2,148 (32%) | | PLCOm2012 | 1,305 (22%) | 127 (18%) | 1,432 (21%) | | Total assessed clients | 6032 | 705 | 6737 | |  | | |  |   **Conclusion:** Although PLCOM2012 risk is likely to be underestimated due to missing variables, a substantial proportion of adults 18 years and older, contacting Quitline for the first time, meet LCS eligibility. Quitline should be considered a viable pathway into the NLCSP. |
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