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| **Lung cancer screening eligibility in Quitline Clients**  |
| Henry Marshall1,2, Joanne Isbel3, Shelley Peardon-Freeman3, Eve Mitsopoulos4, Cathy Segan4,5, Kwun Fong1,2 |
| 1. Department of Thoracic Medicine, The Prince Charles Hospital, Brisbane Queensland
2. The University of Queensland Thoracic Research Centre, Brisbane Queensland
3. Quitline Service, Health Contact Centre, Queensland Department of Health, Queensland
4. Cancer Council Victoria, Melbourne, Victoria
5. School of Population and Global Health, University of Melbourne, Victoria
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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**  |
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| 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 |
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**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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