Primary Sense Reports – National Lung Cancer Screening

Report - release 2.41

Overview

The National Lung Cancer Screening Report was developed to support the rollout of the National Lung Cancer Screening program (NLCSP) *The National Lung Cancer Screening Program*. The report includes active patients aged 50-70 who have a smoking or ex-smoking status.

Primary Sense records smoking status as Nothing Recorded, Nonsmoker, Smoker or Ex-smoker.

To be eligible for the NLCSP, the patient must have:

- a history of cigarette smoking of at least 30 pack-years and still smoke: OR
- at least 30 pack-years and have quit in the past 10 years.

When the year smoking stopped is available, it will be extracted. If not, and a change in smoking status from Smoker to Ex-smoker is detected, this date will be used.

The term "Pack-year" measures the number of cigarettes a person has smoked. The data is used but not as criteria for the report due to data quality issues. The report updates with results as the data is entered, highlighting patients where data is missing.

Pack-years are calculated by multiplying the number of cigarette packs smoked per day by the number of years the person has smoked. 20 cigarettes are considered 1 pack.

One pack-year equals smoking 20 cigarettes daily for a year or 40 cigarettes daily for six months:

- 1 pack/day for 1 year = 1 pack-year
- 2 packs/day for 6 months = 1 pack-year

Patients may have Low-Dose Computed Tomography (LDCT) scans more frequently than every 2 years, with the date of the last scan provided. Imaging request search terms will evolve as more are added to the reference table.

The report includes coded respiratory diseases to help staff identify at-risk individuals. It also provides information on the history of smoking cessation medication history.
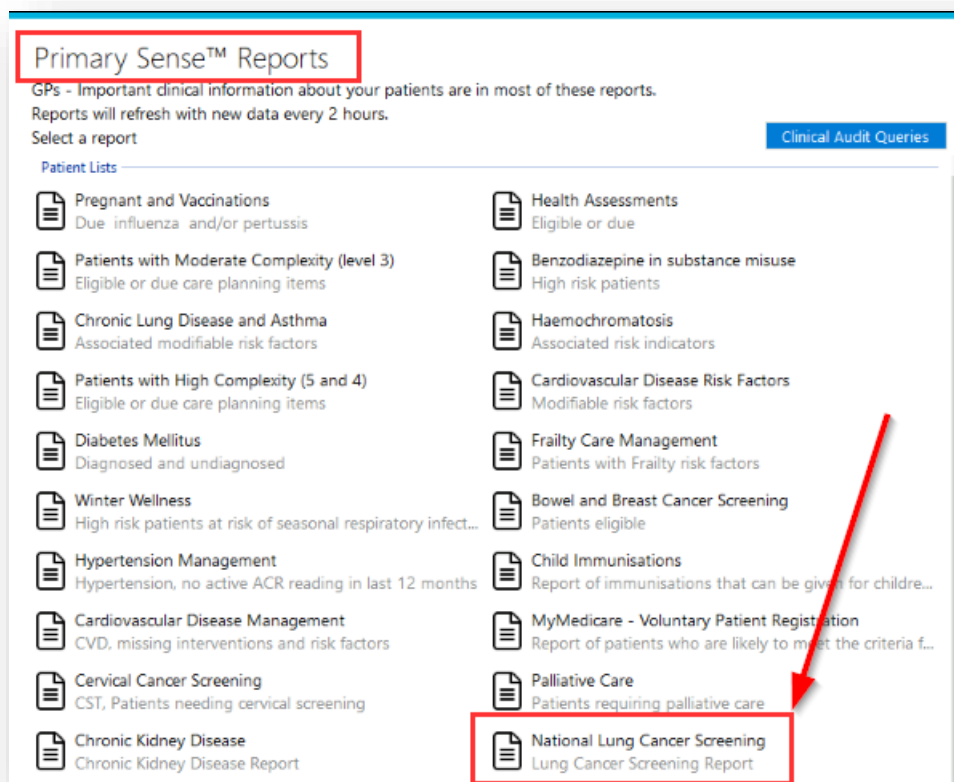
Patients are excluded if they are:

- Receiving palliative care,
- Have a Lung cancer diagnosis,
- Are in Aged Care Facility recorded by a nursing home MBS item billed in the past 12 months.

Using the report

To open the report, click on the 'Reports' tile in the desktop app.

Double click National Lung Cancer Screening report under the 'Patient Lists' section.

General Information

- The tabs at the top of the page can be clicked to bring up relevant information.

- The results can be filtered by clicking on each column. Clicking on columns will rearrange the results alphabetically, chronologically or from high to low or low to high.
- The 'Search' function can help you find specific content

> *Try searching by a month or year e.g. '08' or '2023' to find a last visit dates in a particular range, or by 'GP name' to bring up patients with a specific regular GP.*

- Patients can be removed from the report for 12 months, by clicking 'Remove.' This action cannot be reversed.
- The table can be exported to Excel or CSV for further analysis. 'Export To CSV (SMS)' will create a patient recall list for use with HotDoc© or other compatible applications.

- Applications such as Google Sheets or Libre Office can be used to view and filter the export if Excel is unavailable.

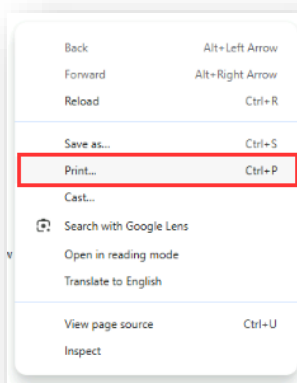- Any filters applied to the data at the time, will be carried over when exported.
- All reports that are generated are automatically saved to a folder on your practice computer.
- The report can be printed by right clicking the mouse button while hovering the cursor over the report and selecting the 'Print' option.

Report Content

Which patients are included in this report?

- Patients aged between 50-70yrs old marked as 'active' in the CIS who have a smoking or ex-smoking status recorded.
- Where the year stopped can be extracted this is provided, where not available and a change is smoking status from current to ex is detected this date will be used.
- Patients with lung cancer or palliative care recorded are excluded as are patients with a nursing home item billed in the past 12 months.

What data is in this report?

- Smoking status
- If smoking cessation medication have been prescribed
- Date of the last low density CT scan - please note additional test names will be added to the search criteria as they become known. As higher risk patients can be scanned more than every 2 years, the last date is provided.
- Cigarette pack per year where extracted. As this may not be well coded it will be shown where available, but patients will not be excluded based on this data being unavailable.

Information about this table

The report includes a table with eligibility criteria for the screening program. It covers all patients, even if smoking data is incomplete. When available, packs per year information is provided.

Diagnosis/Conditions

- Current Smoker or Ex-smoker.
- Calculation of packs per day where smoker status is current or ceased date is in the past 10 years.
- Respiratory disease if recorded.
- Use of nicotine replacement where prescribed.
- Date of the last LDCT scan where requested.
- Palliative care and lung cancer codes are used to exclude patients.

Columns Returned

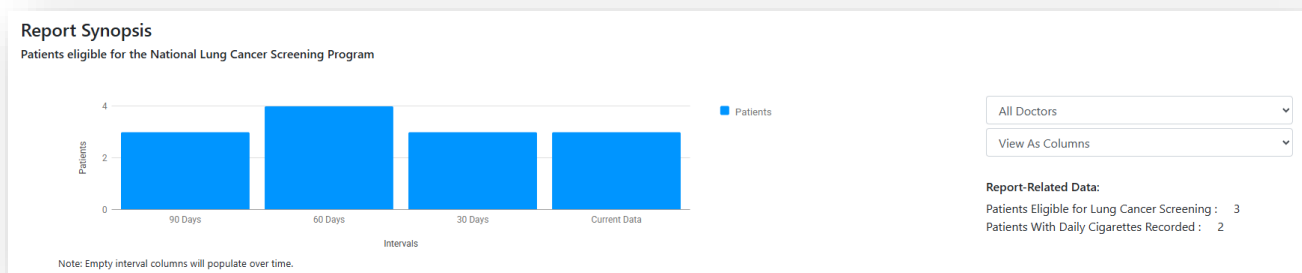Arrows at the top of each column can be used to reverse the ordering.

Remove	ACG Complexity	Patient Name	Patient Phone	Last Visit	Existing Appt	GP Name	Clinic	Age	Smoking Status	History of Cessation Medications	Smoking Start Date	Smoking Quit Date	Respiratory Diagnosis	Low Dose CT Scan Date	Smokes Per Day	Pack Years
①	②		③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯
Remove	4	Evans, Patricia	0428508873	2024-12-06	2025-06-30	Dr Jones		65	Smoker	Nicotine	1982-01-01		COPD - Infective exacerbation		40	87
Remove	5	Brough, Colin	0428503456	2025-04-16	2025-07-16	Dr Jones		69	Ex-smoker		1980-01-01	2022-11-28	Asthma		50	107
Remove	3	Smith, Sally	0424086643	2024-11-20	2025-06-26	DR Jones		55	Smoker		2005-01-01					

1. **'Remove'** - Patients can be removed from the report for 12 months, by clicking 'Remove.' This action cannot be reversed.
2. **'ACG Complexity'** - the complexity bands formed by combining the ACGs to measure overall morbidity burden on a scale of 0-5, with 5 being the most complex/morbidity burden. See *The Johns Hopkins ACG® Version 12.0 User Documentation* for more information on ACG data.
3. Patient demographic data.
4. **'Last Visit'** - displays the date the patient last had an appointment at the practice.
5. **'Existing Appt'** - displays patient appointments that have been booked for dates beyond the report.
6. **'GP Name'** - the GP who has most accessed the patient record.
7. **'Clinic'** - most attended clinic if data is shared.

8. **'Age'** - Patient age at time the report is run.
9. **'Smoking status'** for smoker or ex-smoker. Non-smoker and Not recorded smoking status will not be in this report. Ex-smoker is included if cessation is in the past 10 years.
10. **'History of cessation medication'** – if nicotine replacement is prescribed and not marked as ceased.
11. **'Smoking Start Date'** - will default to 1 January if a full date isn't provided.
12. **'Smoking Quit Date'** - will use recorded change of status date, or default to 1 January if a full date isn't provided.
13. **'Respiratory Diagnosis'** – Respiratory conditions recorded including Ashma, COPD, Respiratory failure and disease
14. **'Low dose CT Scan Date'** – Date of the request where this can be determined (referencing various naming conventions)
15. **'Smokes Per Day'** – number of cigarettes smoked per day if recorded
16. **'Pack Years' –** calculated if sufficient data found. Pack-years are calculated by multiplying the number of cigarette packs smoked per day by the number of years the person has smoked. 20 cigarettes are considered 1 pack, = 7300 cigarettes per year.

Report Synopsis

- Patients eligible for lung cancer screening (based on Current Smoker or Ex-smoker)
- Patents with daily cigarettes recorded
- Results can be filtered to a specific GP who has most accessed the patient record.
- Synopsis can be viewed as columns or bars.