

Practices in Reporting Incidental Findings in Lung Cancer Screening by Low-dose CT: A European Survey of Radiologists by SOLACE

ELECTRONIC SUPPLEMENTARY MATERIAL

Supplemental Table 1. Distribution of Survey Responses by Country

Country	Count (Percent)
Czechia	34 (23.1%)
France	13 (8.8%)
United Kingdom	11 (7.5%)
Hungary	10 (6.8%)
Germany	9 (6.1%)
Portugal	9 (6.1%)
Italy	8 (5.4%)
Poland	8 (5.4%)
Belgium	6 (4.1%)
Austria	4 (2.7%)
Greece	4 (2.7%)
Switzerland	4 (2.7%)
Croatia	3 (2.0%)
Estonia	3 (2.0%)
Latvia	3 (2.0%)
Slovenia	3 (2.0%)
Spain	3 (2.0%)
Other	12 (8.2%)

Supplemental Table 2. Radiologist-reported regulatory frameworks for LCS Reporting.

Country	National	Regional	Research Pilot	Not Regulated
Czechia	24	2	10	0
France	1	1	11	4
United Kingdom	8	5	1	1
Hungary	2	2	5	1
Germany	4	0	2	3
Portugal	0	0	1	9
Italy	1	2	3	4
Poland	2	3	2	1
Belgium	1	1	2	3
Austria	1	1	1	4
Greece	0	0	0	4
Switzerland	0	0	2	2
Croatia	3	0	0	0
Estonia	0	0	3	0
Latvia	0	0	1	2
Slovenia	1	1	1	1
Spain	0	0	2	1
Ireland	1	0	1	0
Luxembourg	0	0	2	0
Netherlands	2	0	0	0
Slovakia	0	1	1	0
Bulgaria	0	0	1	1
Serbia	0	1	0	0
Sweden	0	0	1	0
Turkey	0	0	0	1

Supplemental Table 3. Radiologist-reported regulatory frameworks for IF Reporting.

Country	National	Regional	Research Pilot	Not Regulated
Czechia	24	0	0	0
France	0	0	10	5
United Kingdom	7	5	0	2
Hungary	2	1	3	4
Germany	2	0	1	6
Portugal	0	0	0	9
Italy	1	0	3	5
Poland	1	3	0	4
Belgium	1	1	2	3
Austria	1	1	1	4
Greece	0	0	0	4
Switzerland	0	0	2	2
Croatia	3	0	0	0
Estonia	0	0	2	1
Latvia	0	0	0	3
Slovenia	1	1	1	1
Spain	0	0	2	1
Ireland	1	0	1	0
Luxembourg	0	0	0	2
Netherlands	1	0	0	1
Slovakia	0	1	1	0
Bulgaria	0	0	1	0
Serbia	0	1	0	0
Sweden	0	0	1	0
Turkey	0	0	0	1

Supplemental Figure S1: Management of Incidental Findings Detected in Lung Cancer Screening – Survey

Management of Incidental Findings Detected in Lung Cancer Screening – Survey

1. Are you a radiologist or a professional working in radiology?*

- a. Yes (Go to Q2)
- b. No (Message below displayed.)

Thank you for your interest in contributing to our survey!

At this time, we are specifically seeking input from radiology professionals.

We highly encourage you to join the SOLACE Stakeholder Forum (europeanlung.org/lung). By joining, you'll receive updates and access to future surveys, including opportunities to share perspectives on incidental findings from a broader range of professionals.

We deeply appreciate your continued interest and support in advancing the goals of the SOLACE Project!

2. For which country do you conduct the majority of your lung cancer screening reporting?

- | | | |
|-----------------------|----------------|----------------------|
| a. Austria | k. Germany | u. Poland |
| b. Belgium | l. Greece | v. Portugal |
| c. Bulgaria | m. Hungary | w. Romania |
| d. Croatia | n. Ireland | x. Slovakia |
| e. Republic of Cyprus | o. Italy | y. Slovenia |
| f. Czech Republic | p. Latvia | z. Spain |
| g. Denmark | q. Lithuania | aa. Sweden |
| h. Estonia | r. Luxembourg | bb. United Kingdom |
| i. Finland | s. Malta | cc. Other (Go to Q3) |
| j. France | t. Netherlands | A-BB (Go to Q4) |

3. Please specify other here. (short answer)

4. Please specify the types of screening programs in [Q2 Response] you are involved in: (Check all that apply)

- a. National (e.g. EU member state level)
- b. Research/Implementation pilot (e.g. state/regional programmes or hospital level)
- c. Not within a programme (e.g. opportunistic screening)
- d. Other

5. At which level(s) is lung cancer screening reporting regulated in [Q2 Response]?

- a. National (e.g. EU member state level)
- b. Regional (e.g. state or regional legislation)
- c. Research pilot (e.g. study protocol)
- d. Not regulated

6. At which level(s) is incidental finding as part of lung cancer screening reporting regulated in [Q2 Response]?

- a. National (e.g. EU member state level) (Go to Q7)
- b. Regional (e.g. state or regional legislation) (Go to Q7)
- c. Research pilot (e.g. study protocol) (Go to Q7)
- d. Not regulated (Go to Q8)

7. Indicate how each condition is REGULATED in the reporting of incidental findings:

- | | |
|---|---|
| a. Coronary artery calcification | b. Interstitial lung abnormalities |
| i. Mandatory/Always (Independent of Severity) | i. Mandatory/Always (Independent of Severity) |
| ii. In Some Cases (Dependent on Severity) | ii. In Some Cases (Dependent on Severity) |
| iii. Never | iii. Never |
| iv. Not regulated | iv. Not regulated |

- c. Emphysema
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated
- d. Bronchiectasis
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated
- e. Consolidation and signs of infection
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated
- f. Bronchial wall thickening
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated
- g. Mediastinal lymph nodes
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated
- h. Thyroid abnormalities
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated
- i. Mediastinal mass
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated
- j. Pleural effusions
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated
- k. Pneumothorax and pneumomediastinum
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated
- l. Diaphragm abnormalities
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated
- m. Aortic aneurysms
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated
- n. Breast nodules
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated
- o. Liver lesions
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated
- p. Renal lesions
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated

- q. Bone abnormalities
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated
- r. Adrenal lesions
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated
- s. Respiratory bronchiolitis
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated
- t. Pleural lesion with and without effusion
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity)
 - iii. Never
 - iv. Not regulated

8. Indicate how much you agree or disagree with the following statement:

LDCT is not a reliable technique to assess solid organs outside of the mediastinum.

- a. Strongly agree
- b. Moderately agree
- c. Neither agree or disagree
- d. Moderately disagree
- e. Strongly disagree

9. Indicate how each condition in your OPINION should be regulated in the reporting of incidental findings:

- a. Coronary artery calcification
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12a
 - iii. Never
- b. Interstitial lung abnormalities
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12b
 - iii. Never
- c. Emphysema
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12c
 - iii. Never
- d. Bronchiectasis
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12d
 - iii. Never
- e. Consolidation and signs of infection
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12e
 - iii. Never
- f. Bronchial wall thickening
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12f
 - iii. Never
- g. Mediastinal lymph nodes
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12g
 - iii. Never
- h. Thyroid abnormalities
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12h
 - iii. Never
- i. Mediastinal mass
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12i
 - iii. Never
- j. Pleural effusions
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12j
 - iii. Never

- k. Pneumothorax and pneumomediastinum
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12k
 - iii. Never
 - l. Diaphragm abnormalities
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12l
 - iii. Never
 - m. Aortic aneurysms
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12m
 - iii. Never
 - n. Breast nodules
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12n
 - iii. Never
 - o. Liver lesions
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12o
 - iii. Never
 - p. Renal lesions
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12p
 - iii. Never
 - q. Bone abnormalities
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12q
 - iii. Never
 - r. Adrenal lesions
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12r
 - iii. Never
 - s. Respiratory bronchiolitis
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12s
 - iii. Never
 - t. Pleural lesion with and without effusion
 - i. Mandatory/Always (Independent of Severity)
 - ii. In Some Cases (Dependent on Severity) → Continue to 12t
 - iii. Never
10. Do you believe that there should be any other conditions added to this list?
- a. Yes (Go to Q11)
 - b. No (Go to Q12)
11. Please indicate the additional condition(s) that you believe should be added to this list. (Free text.)
12. Indicate what degree of severity each condition in your OPINION should be regulated in the reporting of incidental findings:
- a. Coronary artery calcification
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
 - b. Interstitial lung abnormalities
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
 - c. Emphysema
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
 - d. Bronchiectasis
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
 - e. Consolidation and signs of infection
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
 - f. Bronchial wall thickening
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
 - g. Mediastinal lymph nodes
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
 - h. Thyroid abnormalities
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity

- i. Mediastinal mass
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
- j. Pleural effusions
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
- k. Pneumothorax and pneumomediastinum
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
- l. Diaphragm abnormalities
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
- m. Aortic aneurysms
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
- n. Breast nodules
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
- o. Liver lesions
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
- p. Renal lesions
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
- q. Bone abnormalities
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
- r. Adrenal lesions
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
- s. Respiratory bronchiolitis
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity
- t. Pleural lesion with and without effusion
 - i. High Severity
 - ii. Moderate and High Severity
 - iii. Low, Moderate, and High Severity