

AI-Assisted Lung CT Analysis

Clinician Decision Support Report

LIDC-IDRI-0001

Scan Date: N/A

Patient: N/A (N/A, N/A yrs)

DATA QUALITY WARNINGS

- [Schema:root] 'study_uid' is a required property
- [XAI:Nodule 0] High-risk nodule (p=0.72) missing explainability visualization
- [XAI:Nodule 2] High-risk nodule (p=0.89) missing explainability visualization
- [XAI:Nodule 4] High-risk nodule (p=0.73) missing explainability visualization
- [XAI:Nodule 7] High-risk nodule (p=0.82) missing explainability visualization
- [XAI:Nodule 13] High-risk nodule (p=0.86) missing explainability visualization
- [XAI:Nodule 17] High-risk nodule (p=0.73) missing explainability visualization
- [XAI:Nodule 19] High-risk nodule (p=0.74) missing explainability visualization
- [XAI:Nodule 23] High-risk nodule (p=0.73) missing explainability visualization
- [XAI:Nodule 24] High-risk nodule (p=0.72) missing explainability visualization
- ... and 15 more warnings

LUNG CONDITION SUMMARY

Overall Status:	Lungs appear within expected attenuation ranges.	Emphysema Score:	0.0011
Fibrosis Score:	1.0000	Consolidation Score:	0.9142
Airway Wall:	N/A	Processing Time:	7.90 sec

DETECTED PULMONARY NODULES (93)

ID	SIZE (MM)	VOLUME (MM ³)	TYPE	LOCATION	MALIGNANCY	REVIEW	XAI
0	45.52	28579	solid	right middle lobe	72.0%	Yes	—
1	42.3	27742	subsolid	right upper lobe	47.7%	Yes	—
2	40.11	32983	solid	left lingula	88.7%	No	—
3	47.73	33863	subsolid	left lingula	45.9%	Yes	—
4	39.05	32177	ground-glass	left lingula	72.7%	No	—
5	51.36	31885	ground-glass	right middle lobe	25.7%	Yes	—
6	42.66	31275	subsolid	left lingula	55.3%	Yes	—
7	50.4	37220	ground-glass	right middle lobe	82.5%	No	—
8	32.9	39804	ground-glass	left lingula	35.9%	Yes	—
9	34.17	28744	subsolid	left lingula	49.2%	Yes	—
10	44.53	27867	ground-glass	left lingula	36.8%	Yes	—
11	52.37	38468	subsolid	right middle lobe	43.1%	Yes	—
12	45.16	39471	subsolid	right middle lobe	57.0%	Yes	—
13	55.2	26776	ground-glass	left lingula	86.4%	No	—
14	44.89	37114	ground-glass	left lingula	50.3%	Yes	—
15	49.12	36994	ground-glass	left lingula	57.9%	Yes	—
16	55.41	24835	subsolid	right middle lobe	61.1%	Yes	—
17	54.06	37984	ground-glass	right middle lobe	73.0%	No	—
18	29.75	26795	subsolid	left lingula	58.7%	Yes	—
19	48.71	27728	subsolid	right middle lobe	74.2%	No	—
20	53.25	32570	ground-glass	right middle lobe	36.4%	Yes	—
21	47.19	39343	subsolid	left lingula	39.4%	Yes	—
22	39.71	31783	subsolid	left lingula	64.5%	Yes	—
23	48.55	33035	ground-glass	left lingula	73.5%	No	—
24	39.8	33021	ground-glass	right middle lobe	71.8%	No	—

ID	SIZE (MM)	VOLUME (MM ³)	TYPE	LOCATION	MALIGNANCY	REVIEW	XAI
25	44.08	32249	subsolid	right middle lobe	39.5%	Yes	—
26	31.05	25837	ground-glass	left lingula	81.9%	No	—
27	51.15	29966	ground-glass	right middle lobe	47.5%	Yes	—
28	38.78	25316	subsolid	right middle lobe	24.2%	No	—
29	39.13	30304	ground-glass	right middle lobe	41.5%	Yes	—
30	50.39	35547	ground-glass	right middle lobe	25.7%	No	—
31	50.39	26818	ground-glass	left lingula	87.3%	No	—
32	47.4	28518	ground-glass	right middle lobe	28.2%	No	—
33	47.4	39362	ground-glass	right middle lobe	59.6%	Yes	—
34	40.38	39821	subsolid	right middle lobe	31.5%	No	—
35	47.32	36200	subsolid	right middle lobe	54.4%	Yes	—
36	45.61	34839	ground-glass	left lingula	45.7%	Yes	—
37	43.6	39351	ground-glass	right middle lobe	46.2%	Yes	—
38	43.43	39472	ground-glass	left lingula	31.6%	Yes	—
39	41.38	39635	ground-glass	left lingula	74.4%	No	—
40	52.58	26770	ground-glass	right middle lobe	82.1%	No	—
41	52.41	26168	subsolid	left lingula	89.2%	No	—
42	46.38	34603	ground-glass	left lingula	95.0%	No	—
43	52.37	37611	ground-glass	right middle lobe	27.4%	No	—
44	40.06	27013	subsolid	right middle lobe	34.3%	Yes	—
45	54.4	33382	ground-glass	left lingula	43.4%	Yes	—
46	37.01	35457	ground-glass	right middle lobe	47.9%	Yes	—
47	41.19	36940	ground-glass	left lingula	60.3%	Yes	—
48	53.47	35501	subsolid	left lingula	70.2%	No	—
49	43.55	36048	ground-glass	left lingula	42.4%	Yes	—
50	51.79	39574	ground-glass	left lingula	43.8%	Yes	—

ID	SIZE (MM)	VOLUME (MM ³)	TYPE	LOCATION	MALIGNANCY	REVIEW	XAI
51	35.19	30758	ground-glass	right middle lobe	81.8%	No	—
52	54.07	30379	ground-glass	right middle lobe	30.2%	Yes	—
53	45.29	28720	ground-glass	left lingula	45.1%	Yes	—
54	48.92	32471	ground-glass	left lingula	55.9%	Yes	—
55	30.33	32573	ground-glass	left lingula	44.4%	Yes	—
56	54.68	39030	subsolid	right middle lobe	48.1%	Yes	—
57	50.4	26406	ground-glass	left lingula	35.9%	Yes	—
58	45.76	25871	ground-glass	right middle lobe	47.4%	Yes	—
59	39.46	26529	ground-glass	right middle lobe	49.9%	Yes	—
60	47.3	32850	ground-glass	left lingula	38.6%	Yes	—
61	46.56	40041	ground-glass	left lingula	57.4%	Yes	—
62	45.5	28914	ground-glass	right middle lobe	56.7%	Yes	—
63	45.31	24819	ground-glass	right middle lobe	33.6%	Yes	—
64	51.87	34879	ground-glass	right middle lobe	20.0%	No	—
65	47.2	33289	subsolid	left lingula	55.6%	Yes	—
66	47.0	29762	ground-glass	left lower lobe	20.0%	No	—
67	37.07	35728	ground-glass	right middle lobe	80.2%	No	—
68	41.1	36445	ground-glass	right middle lobe	36.2%	Yes	—
69	53.71	32567	subsolid	left lingula	55.3%	Yes	—
70	50.48	25654	ground-glass	right middle lobe	70.5%	Yes	—
71	39.57	35693	ground-glass	right middle lobe	95.0%	No	—
72	53.76	34867	subsolid	left lower lobe	37.0%	Yes	—
73	45.14	39939	ground-glass	left lower lobe	30.8%	Yes	—
74	58.02	29176	ground-glass	right lower lobe	48.1%	Yes	—
75	45.46	25383	ground-glass	right lower lobe	45.4%	Yes	—
76	40.93	37363	ground-glass	right lower lobe	76.5%	No	—

ID	SIZE (MM)	VOLUME (MM ³)	TYPE	LOCATION	MALIGNANCY	REVIEW	XAI
77	39.85	32009	ground-glass	left lower lobe	57.2%	Yes	—
78	51.43	31680	subsolid	right lower lobe	91.5%	No	—
79	44.27	30138	ground-glass	right lower lobe	40.5%	Yes	—
80	43.18	34703	ground-glass	right lower lobe	27.1%	Yes	—
81	51.07	24916	ground-glass	left lower lobe	64.5%	Yes	—
82	46.96	26256	ground-glass	left lower lobe	71.3%	No	—
83	51.79	38939	ground-glass	right lower lobe	40.8%	Yes	—
84	57.51	31055	subsolid	left lower lobe	69.1%	No	—
85	46.56	39754	subsolid	right lower lobe	56.5%	Yes	—
86	48.59	37669	ground-glass	right lower lobe	29.2%	Yes	—
87	56.15	34944	ground-glass	left lower lobe	52.5%	Yes	—
88	42.3	28227	ground-glass	left lower lobe	35.4%	Yes	—
89	56.62	34987	ground-glass	left lower lobe	41.4%	Yes	—
90	48.66	29600	subsolid	left lower lobe	38.1%	Yes	—
91	50.64	34051	ground-glass	left lower lobe	66.5%	Yes	—
92	50.88	37569	ground-glass	left lower lobe	79.4%	No	—
⚠️ 24 high-risk nodule(s) detected — Clinical correlation and follow-up recommended.							

CLINICAL IMPRESSION

93 nodules detected. Largest measures 53.5 mm. 93 nodules show moderate-to-high malignancy probability. Recommend clinical correlation.

EXPLAINABILITY SUMMARY

No AI explainability visualizations were generated for this scan.
Visualizations available for 0/93 nodules. 24 high-risk nodule(s) lack XAI.

⚠ **AI-Assisted Screening Notice:** This report was generated by automated AI analysis and is intended for decision support only. All findings must be validated by a qualified radiologist or physician. AI predictions are probabilistic and should not be used as the sole basis for clinical decisions.