

Table S1 Scanning parameters of CT equipment in two hospitals

CT equipment	United-imaging	Philips		SIEMENS	GE
	uCT 760	Ingenuity CT	iCT 256	SOMATOM Force	ES
Hospital	1 or 2	2	1 or 2	1 or 2	1
Tube voltage	120 kV	120 kV	120 kV	90 kV/150 Sn kV	120 kV
Tube current	AEC	AEC	AEC	AEC	AEC
Collimation	0.625 mm ×64	0.625 mm ×128	0.625 mm ×128	0.6 mm ×192	0.625 mm ×128
Rotation time (s/rot)	0.33	0.33	0.5	0.25	0.5
Slice thickness of reconstruction (mm)	1/1.25	1.5	1/1.25	1/1.25	1.25

AEC, automatic exposure control.

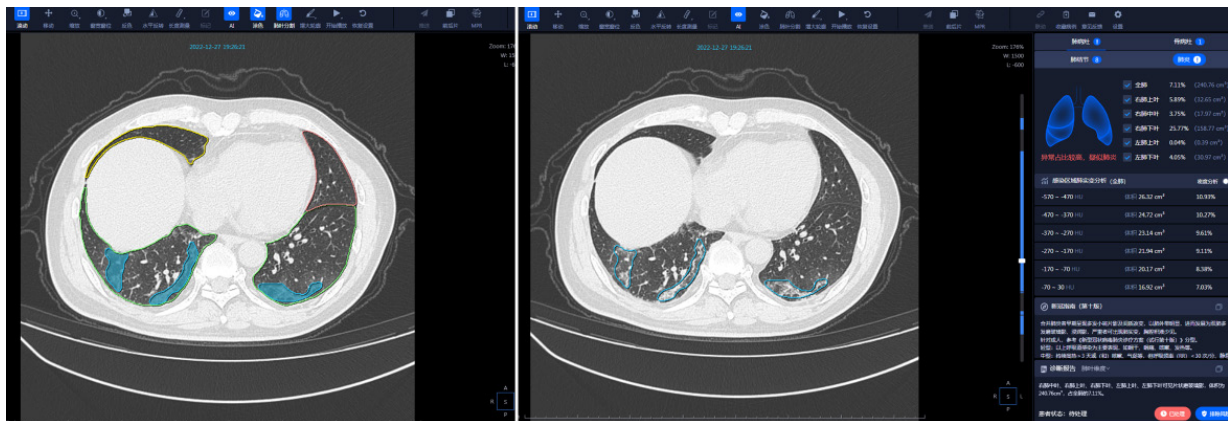


Figure S1 InferRead CT Lung (COVID-19) system interface example, the blue area represents the area affected by pneumonia. COVID-19, coronavirus disease 2019.

Table S2 DeLong test of AUC for three models

Model comparison	P value
Combined model vs. LFSS-based model	0.001
Combined model vs. clinical-based model	<0.001
LFSS-based model vs. clinical-based model	0.18

LFSS, Lung field- based severity score; AUC, area under the curve.