

### Appendix 1. AI-driven Radiologic Features

Variables	Overall	Training	Test	P-value
Proportion of BL (%)	1.90 [0.35, 6.07]	1.36 [0.25, 3.99]	2.40 [0.82, 6.52]	0.103
Proportion of GGO in BL (%)	1.61 [0.26, 4.84]	1.08 [0.20, 3.20]	2.00 [0.66, 5.97]	0.063
Proportion of CV in BL (%)	0.09 [0.02, 0.39]	0.06 [0.02, 0.37]	0.13 [0.02, 0.42]	0.237
Proportion of RL (%)	1.79 [0.28, 6.24]	0.98 [0.21, 5.00]	2.34 [0.46, 6.55]	0.138
Proportion of GGO in RL (%)	1.46 [0.23, 4.87]	0.80 [0.16, 3.78]	2.09 [0.40, 5.17]	0.106
Proportion of CV in RL (%)	0.07 [0.02, 0.38]	0.05 [0.01, 0.38]	0.12 [0.02, 0.38]	0.358
Proportion of LL (%)	1.25 [0.21, 5.69]	0.92 [0.17, 5.10]	2.45 [0.22, 6.09]	0.358
Proportion of GGO in LL (%)	1.00 [0.15, 4.98]	0.69 [0.12, 3.96]	2.00 [0.18, 5.18]	0.295
Proportion of CV in LL (%)	0.08 [0.01, 0.47]	0.08 [0.01, 0.44]	0.07 [0.01, 0.49]	0.556
Proportion of RUL (%)	0.32 [0.03, 3.11]	0.21 [0.03, 2.19]	0.62 [0.02, 3.61]	0.646
Proportion of GGO in RUL (%)	0.30 [0.02, 2.67]	0.19 [0.03, 1.89]	0.60 [0.02, 3.54]	0.542
Proportion of CV in RULL (%)	0.02 [0.00, 0.18]	0.02 [0.00, 0.20]	0.02 [0.00, 0.12]	0.821
Proportion of RML (%)	0.18 [0.01, 1.78]	0.24 [0.03, 2.25]	0.12 [0.00, 1.25]	0.225
Proportion of GGO in RML (%)	0.18 [0.01, 1.63]	0.23 [0.03, 2.04]	0.11 [0.00, 1.20]	0.25
Proportion of CV in RML (%)	0.00 [0.00, 0.06]	0.01 [0.00, 0.08]	0.00 [0.00, 0.02]	0.031
Proportion of RLL (%)	2.09 [0.33, 8.88]	1.46 [0.28, 7.42]	3.54 [0.57, 9.77]	0.206
Proportion of GGO in RLL (%)	1.79 [0.31, 8.06]	1.31 [0.23, 6.44]	3.46 [0.35, 8.41]	0.189
Proportion of CV in RLL (%)	0.12 [0.02, 0.72]	0.09 [0.02, 0.71]	0.15 [0.01, 0.71]	0.634
Proportion of LUL (%)	0.35 [0.03, 3.68]	0.26 [0.03, 3.27]	0.66 [0.04, 4.02]	0.524
Proportion of GGO in LUL (%)	0.32 [0.03, 3.41]	0.22 [0.03, 2.85]	0.64 [0.03, 3.80]	0.513
Proportion of CV in LUL (%)	0.02 [0.00, 0.26]	0.01 [0.00, 0.25]	0.02 [0.00, 0.24]	0.503
Proportion of LLL (%)	1.73 [0.10, 7.03]	1.46 [0.11, 6.26]	2.31 [0.09, 8.80]	0.632
Proportion of GGO in LLL (%)	1.44 [0.10, 6.60]	1.35 [0.11, 5.75]	2.12 [0.08, 7.19]	0.626
Proportion of CV in LLL (%)	0.14 [0.00, 0.67]	0.14 [0.00, 0.61]	0.07 [0.01, 0.92]	0.818
Proportion of Posterior apical segment of LUL (%)	0.32 [0.03, 4.40]	0.29 [0.03, 3.29]	0.56 [0.02, 6.03]	0.442
Proportion anterior segment of LUL (%)	0.01 [0.00, 0.81]	0.03 [0.00, 0.66]	0.00 [0.00, 1.26]	0.993
Proportion of upper lingual segment of LUL (%)	0.00 [0.00, 0.49]	0.00 [0.00, 0.08]	0.00 [0.00, 2.13]	0.391
Proportion of sublingual segment of LUL (%)	0.22 [0.00, 3.75]	0.17 [0.02, 2.68]	0.31 [0.00, 5.05]	0.906
Proportion of dorsal segment of LLL (%)	0.90 [0.04, 9.70]	0.81 [0.04, 5.69]	1.15 [0.07, 12.46]	0.407
Proportion of anterior medial basal segment of LLL (%)	0.32 [0.01, 3.57]	0.27 [0.02, 3.12]	0.34 [0.00, 3.99]	0.908
Proportion of outer basal segment of LLL (%)	0.76 [0.00, 11.95]	0.55 [0.00, 10.29]	2.02 [0.00, 13.05]	0.507
Proportion of posterior basal segment of LLL (%)	1.56 [0.15, 9.36]	1.31 [0.15, 7.57]	1.87 [0.16, 9.54]	0.889
Proportion of apical segment of RUL (%)	0.13 [0.02, 1.54]	0.11 [0.03, 1.41]	0.13 [0.02, 1.58]	0.852
Proportion of posterior segment of RUL (%)	0.36 [0.00, 4.78]	0.25 [0.00, 4.19]	0.69 [0.00, 7.24]	0.485
Proportion of anterior segment of RUL (%)	0.00 [0.00, 0.48]	0.00 [0.00, 0.48]	0.00 [0.00, 0.39]	0.814
Proportion of outer segment of RML (%)	0.10 [0.00, 2.33]	0.15 [0.00, 2.40]	0.07 [0.00, 1.88]	0.642
Proportion of inner segment of RML (%)	0.08 [0.00, 0.67]	0.15 [0.00, 1.48]	0.02 [0.00, 0.29]	0.017
Proportion of dorsal segment of RLL (%)	1.01 [0.00, 6.56]	1.01 [0.00, 4.73]	1.17 [0.00, 12.10]	0.552
Proportion of basal segment of RLL (%)	0.09 [0.00, 1.30]	0.10 [0.00, 1.91]	0.07 [0.00, 0.90]	0.829
Proportion of anterior basal segment of RLL (%)	0.28 [0.00, 1.96]	0.26 [0.01, 1.58]	0.48 [0.00, 2.59]	0.735
Proportion of outer basal segment of RLL (%)	3.02 [0.20, 12.78]	1.44 [0.12, 13.28]	4.30 [0.26, 12.50]	0.337
Proportion of posterior basal segment of RLL (%)	2.75 [0.28, 11.80]	1.76 [0.22, 10.99]	5.95 [0.29, 18.49]	0.259
Volume of BL (cm <sup>3</sup> )	73.97 [16.17, 196.14]	46.84 [11.31, 140.06]	97.85 [34.07, 214.20]	0.048

Volume of GGO (cm <sup>3</sup> )	61.37 [14.39, 164.78]	45.06 [10.64, 129.94]	92.16 [29.35, 193.12]	0.043
Volume of CV (cm <sup>3</sup> )	3.70 [0.83, 18.25]	2.75 [0.78, 12.98]	4.73 [1.18, 19.78]	0.297
Volume of RL (cm <sup>3</sup> )	30.89 [7.16, 111.55]	21.90 [5.00, 96.70]	57.36 [9.70, 127.07]	0.089
Volume of GGO in RL (cm <sup>3</sup> )	28.33 [6.04, 98.39]	20.93 [4.21, 88.42]	52.60 [9.24, 114.29]	0.073
Volume of CV in RL (cm <sup>3</sup> )	1.56 [0.38, 7.80]	1.17 [0.39, 7.49]	2.19 [0.40, 11.95]	0.433
Volume of LL (cm <sup>3</sup> )	22.70 [3.81, 80.46]	17.22 [3.15, 65.16]	41.89 [4.65, 85.79]	0.298
Volume of GGO in LL (cm <sup>3</sup> )	21.41 [3.05, 67.89]	14.93 [2.65, 57.42]	40.32 [4.34, 75.61]	0.272
Volume of CV in LL (cm <sup>3</sup> )	1.33 [0.23, 7.38]	1.33 [0.15, 6.44]	1.29 [0.29, 8.34]	0.522
Volume of RUL (cm <sup>3</sup> )	2.48 [0.31, 23.98]	1.86 [0.44, 18.23]	5.41 [0.24, 30.50]	0.622
Volume of GGO in RUL (cm <sup>3</sup> )	2.42 [0.29, 21.32]	1.71 [0.36, 15.15]	4.99 [0.22, 26.93]	0.558
Volume of CV in RUL (cm <sup>3</sup> )	0.14 [0.01, 1.27]	0.14 [0.01, 1.38]	0.13 [0.01, 0.86]	0.81
Volume of RML(cm <sup>3</sup> )	0.83 [0.04, 6.12]	1.01 [0.14, 6.82]	0.52 [0.01, 5.58]	0.344
Volume of GGO in RML (cm <sup>3</sup> )	0.78 [0.04, 5.66]	0.97 [0.14, 6.34]	0.50 [0.01, 5.45]	0.387
Volume of CV in RML (cm <sup>3</sup> )	0.02 [0.00, 0.26]	0.04 [0.00, 0.42]	0.00 [0.00, 0.10]	0.018
Volume of RLL(cm <sup>3</sup> )	20.52 [3.89, 72.33]	13.38 [3.89, 60.45]	32.20 [5.47, 82.70]	0.099
Volume of GGO in RUL (cm <sup>3</sup> )	18.33 [3.18, 64.78]	11.59 [3.18, 52.44]	30.25 [3.73, 72.85]	0.093
Volume of CV in RUL (cm <sup>3</sup> )	1.08 [0.24, 5.74]	0.87 [0.28, 5.43]	1.48 [0.16, 6.27]	0.423
Volume of LUL(cm <sup>3</sup> )	4.35 [0.37, 31.47]	3.38 [0.39, 27.41]	7.11 [0.36, 46.92]	0.478
Volume of GGO in LUL (cm <sup>3</sup> )	3.45 [0.32, 26.15]	3.05 [0.33, 24.62]	6.59 [0.31, 46.66]	0.435
Volume of CV in LUL (cm <sup>3</sup> )	0.23 [0.02, 2.01]	0.21 [0.01, 1.92]	0.23 [0.05, 1.89]	0.545
Volume of LLL(cm <sup>3</sup> )	12.50 [1.21, 51.59]	11.63 [1.45, 42.95]	16.56 [1.03, 54.93]	0.501
Volume of GGO in LLL (cm <sup>3</sup> )	11.40 [1.16, 45.27]	9.98 [1.39, 36.36]	16.13 [0.92, 52.03]	0.484
Volume of CV in LLL (cm <sup>3</sup> )	0.90 [0.06, 5.02]	1.09 [0.06, 3.61]	0.63 [0.06, 5.66]	0.715
volume of Posterior apical segment of LULL (cm <sup>3</sup> )	1.56 [0.16, 16.72]	1.48 [0.16, 14.61]	2.24 [0.20, 27.54]	0.383
volume Anterior segment of LULL (cm <sup>3</sup> )	0.02 [0.00, 1.52]	0.08 [0.00, 1.02]	0.00 [0.00, 2.55]	0.948
volume of Upper segment in LULL (cm <sup>3</sup> )	0.00 [0.00, 0.07]	0.00 [0.00, 0.01]	0.00 [0.00, 0.27]	0.297
volume of Sublingual segment of LULL (cm <sup>3</sup> )	0.82 [0.01, 9.18]	0.73 [0.07, 7.31]	0.93 [0.00, 10.41]	0.94
volume of Dorsal segment of LLLL (cm <sup>3</sup> )	1.94 [0.07, 11.32]	1.70 [0.07, 9.98]	2.75 [0.15, 14.24]	0.423
volume of Anterior medial basal segment of LLLL (cm <sup>3</sup> )	0.83 [0.03, 6.90]	0.76 [0.05, 5.64]	1.22 [0.00, 10.68]	0.879
volume of Outer basal segment of LLLL (cm <sup>3</sup> )	0.62 [0.00, 5.60]	0.42 [0.00, 3.97]	1.94 [0.00, 9.07]	0.179
volume of Posterior basal segment of LLLL (cm <sup>3</sup> )	4.84 [0.54, 20.68]	3.58 [0.56, 19.56]	5.62 [0.43, 22.25]	0.727
volume of Apical segment of RULL (cm <sup>3</sup> )	0.47 [0.05, 4.22]	0.51 [0.11, 3.00]	0.40 [0.03, 4.62]	0.796
volume of Posterior segment of RULL (cm <sup>3</sup> )	1.42 [0.01, 15.77]	0.90 [0.02, 8.80]	1.85 [0.02, 22.75]	0.363
volume of Anterior segment of RULL (cm <sup>3</sup> )	0.00 [0.00, 1.01]	0.00 [0.00, 0.95]	0.01 [0.00, 1.10]	0.701
volume of Outer segment of RMLL (cm <sup>3</sup> )	0.22 [0.00, 3.86]	0.28 [0.00, 3.06]	0.11 [0.00, 4.26]	0.955
volume of Inner segment of RMLL (cm <sup>3</sup> )	0.16 [0.00, 1.19]	0.24 [0.00, 2.77]	0.05 [0.00, 0.61]	0.022
volume of Dorsal segment of RLLL (cm <sup>3</sup> )	1.59 [0.00, 6.40]	1.20 [0.00, 4.32]	1.89 [0.01, 14.04]	0.314
volume of Basal segment of RLLL (cm <sup>3</sup> )	0.03 [0.00, 0.81]	0.04 [0.00, 0.98]	0.03 [0.00, 0.61]	0.995
volume of Anterior basal segment of RLLL (cm <sup>3</sup> )	0.75 [0.00, 5.20]	0.59 [0.04, 4.50]	1.06 [0.00, 5.75]	0.445
volume of Outer basal segment of RLLL (cm <sup>3</sup> )	6.14 [0.43, 22.14]	3.54 [0.28, 19.29]	8.68 [0.51, 23.73]	0.405
volume of Posterior basal segment of RLLL (cm <sup>3</sup> )	6.17 [0.68, 27.45]	3.80 [0.70, 17.50]	14.37 [0.70, 41.68]	0.142
Proportion volume of BL [-1000~-700)	86.31 [74.21, 90.74]	82.63 [71.14, 90.33]	87.03 [77.29, 90.78]	0.157
Proportion volume of BL [-700~-600)	5.21 [2.98, 8.68]	5.49 [2.89, 9.50]	5.05 [3.01, 8.02]	0.592
Proportion volume of BL [-600~-500)	2.36 [1.53, 4.39]	2.41 [1.52, 4.64]	2.36 [1.54, 4.05]	0.761
Proportion volume of BL [-500~-300)	2.36 [1.78, 4.15]	2.35 [1.79, 4.30]	2.37 [1.74, 4.09]	0.602
Proportion volume of BL [-300~-200)	0.73 [0.61, 1.21]	0.72 [0.62, 1.19]	0.75 [0.57, 1.23]	0.381

Proportion volume of BL [-200~60]	1.84 [1.53, 2.52]	1.87 [1.58, 2.50]	1.76 [1.44, 2.50]	0.256
Proportion volume of BL [60~1000]	0.18 [0.12, 0.31]	0.21 [0.15, 0.47]	0.15 [0.11, 0.22]	0.003
Volume of BL [-1000~-700] (cm <sup>3</sup> )	3147.42 [2176.59, 4207.45]	3028.42 [1983.53, 4193.97]	3270.19 [2426.40, 4262.64]	0.31
Volume of BL [-700~-600] (cm <sup>3</sup> )	188.28 [139.64, 258.20]	207.44 [137.53, 259.12]	186.39 [141.07, 249.04]	0.911
Volume of BL [-600~-500] (cm <sup>3</sup> )	93.41 [72.25, 132.60]	99.05 [71.85, 131.08]	91.59 [72.84, 132.38]	0.969
Volume of BL [-500~-300] (cm <sup>3</sup> )	94.52 [78.03, 126.55]	101.02 [80.67, 122.88]	91.53 [77.33, 136.62]	0.915
Volume of BL [-300~-200] (cm <sup>3</sup> )	30.39 [25.55, 38.88]	30.90 [26.14, 38.30]	29.80 [24.98, 40.74]	0.704
Volume of BL [-200~60] (cm <sup>3</sup> )	73.37 [58.81, 95.32]	75.57 [59.67, 95.31]	68.93 [58.46, 95.29]	0.839
Volume of BL [60~1000] (cm <sup>3</sup> )	6.77 [4.63, 9.94]	7.92 [5.24, 11.64]	5.78 [4.38, 8.50]	0.004
Proportion volume of LL [-1000~-700]	85.69 [72.58, 90.53]	82.17 [70.11, 89.88]	86.75 [77.58, 91.41]	0.106
Proportion volume of LL [-700~-600]	5.33 [2.99, 9.18]	5.84 [3.08, 9.99]	4.60 [2.98, 8.91]	0.438
Proportion volume of LL [-600~-500]	2.47 [1.52, 4.26]	2.60 [1.62, 4.66]	2.41 [1.46, 4.07]	0.465
Proportion volume of LL [-500~-300]	2.46 [1.79, 4.45]	2.44 [1.86, 4.44]	2.47 [1.64, 4.62]	0.485
Proportion volume of LL [-300~-200]	0.76 [0.58, 1.28]	0.76 [0.63, 1.25]	0.77 [0.56, 1.35]	0.319
Proportion volume of LL [-200~60]	1.74 [1.45, 2.42]	1.77 [1.49, 2.42]	1.73 [1.39, 2.45]	0.45
Proportion volume of LL [60~1000]	0.17 [0.13, 0.30]	0.20 [0.15, 0.44]	0.16 [0.13, 0.25]	0.008
Volume of LL [-1000~-700] (cm <sup>3</sup> )	1433.85 [972.72, 1974.55]	1412.84 [868.29, 1965.61]	1505.99 [1128.37, 1959.86]	0.276
Volume of LL [-700~-600] (cm <sup>3</sup> )	90.22 [64.64, 126.07]	98.95 [64.38, 125.60]	83.70 [65.73, 123.43]	0.717
Volume of LL [-600~-500] (cm <sup>3</sup> )	44.13 [33.86, 62.29]	46.30 [33.88, 61.20]	43.53 [33.73, 64.67]	0.911
Volume of LL [-500~-300] (cm <sup>3</sup> )	43.40 [37.42, 60.54]	43.53 [38.75, 58.63]	43.40 [37.05, 64.88]	0.88
Volume of LL [-300~-200] (cm <sup>3</sup> )	13.96 [11.54, 18.39]	14.12 [12.12, 18.23]	13.67 [11.36, 19.55]	0.781
Volume of LL [-200~60] (cm <sup>3</sup> )	32.02 [25.97, 43.01]	32.73 [26.66, 41.96]	31.59 [25.59, 45.22]	0.626
Volume of LL [60~1000] (cm <sup>3</sup> )	3.03 [2.24, 4.65]	3.42 [2.42, 5.13]	2.66 [2.19, 4.15]	0.03
Proportion volume of RL [-1000~-700]	86.55 [75.67, 90.83]	83.16 [71.69, 90.82]	87.22 [79.63, 90.77]	0.17
Proportion volume of RL [-700~-600]	4.81 [2.90, 8.83]	5.10 [2.80, 9.27]	4.63 [3.18, 7.82]	0.718
Proportion volume of RL [-600~-500]	2.28 [1.55, 4.38]	2.32 [1.46, 4.63]	2.21 [1.61, 4.08]	0.9
Proportion volume of RL [-500~-300]	2.31 [1.77, 3.98]	2.30 [1.77, 4.23]	2.31 [1.75, 3.42]	0.792
Proportion volume of RL [-300~-200]	0.76 [0.60, 1.12]	0.74 [0.62, 1.11]	0.76 [0.58, 1.11]	0.362
Proportion volume of RL [-200~60]	1.97 [1.57, 2.53]	2.01 [1.66, 2.64]	1.90 [1.51, 2.41]	0.162
Proportion volume of RL [60~1000]	0.17 [0.12, 0.32]	0.21 [0.13, 0.48]	0.14 [0.09, 0.22]	0.001
volume of RL [-1000~-700] (cm <sup>3</sup> )	1689.60 [1170.39, 2247.81]	1647.84 [1065.97, 2236.84]	1738.47 [1294.74, 2313.11]	0.333
volume of RL [-700~-600] (cm <sup>3</sup> )	102.96 [75.78, 137.06]	105.69 [70.81, 137.53]	101.45 [78.43, 129.76]	0.938
volume of RL [-600~-500] (cm <sup>3</sup> )	49.83 [38.57, 66.81]	50.94 [37.30, 64.84]	48.78 [39.74, 70.42]	0.859
volume of RL [-500~-300] (cm <sup>3</sup> )	50.81 [41.70, 67.24]	52.73 [41.71, 66.22]	50.31 [41.61, 68.95]	0.983
volume of RL [-300~-200] (cm <sup>3</sup> )	16.47 [13.52, 20.49]	16.53 [13.84, 20.43]	15.79 [13.18, 20.48]	0.621
volume of RL [-200~60] (cm <sup>3</sup> )	40.80 [32.20, 53.89]	41.38 [33.65, 53.97]	39.46 [30.55, 52.36]	0.431
volume of RL [60~1000] (cm <sup>3</sup> )	3.64 [2.42, 5.61]	4.58 [2.98, 6.72]	2.99 [1.78, 4.46]	< 0.001

Abbreviations: BL, bilateral lung lesions; CV, consolidation; GGO, ground-glass opacity; RL, right lung lobe lesions; LL, left lung lobe lesions; RUL, right upper lung lobe lesions; RML, right middle lung lobe lesions; RLL, right lower lung lobe lesions; LUL, left upper lung lobe lesions; LLL, left lower lung lobe lesions

Data are presented as medians (interquartile ranges, IQR).

## Appendix 2. Handcrafted-driven Radiologic Features

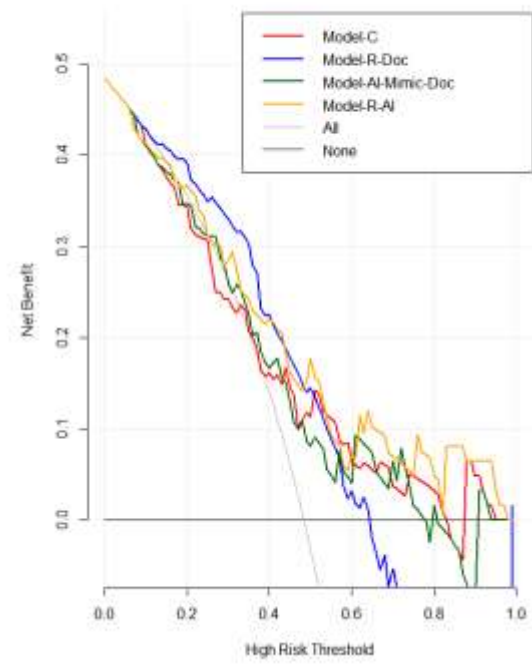
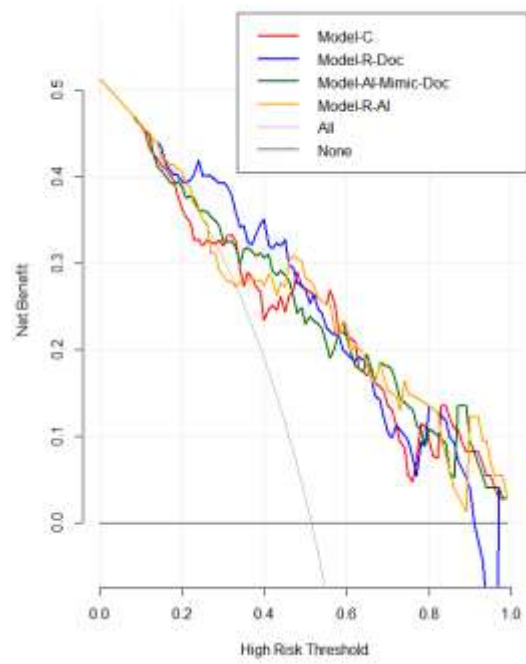
Variables	Training set
<b>Lesion type</b>	
Ground glass	261 (38.2)
Mixed and consolidation	421 (61.8)
<b>Lesion size</b>	
< 3 cm	242 (35.5)
≥ 3 cm	440 (64.5)
<b>Single or bilateral</b>	
Bilateral lung	420 (76.2)
Right lung	90 (13.2)
Left lung	72 (10.6)
<b>Number of lesion</b>	
Single	117 (17.1)
Multiple	565 (82.9)
<b>Air bronchogram</b>	
No	413 (60.6)
Yes	269 (39.4)
<b>Vasodilatation sign</b>	
No	242 (35.5)
Yes	440 (64.5)
<b>Halo</b>	
No	592 (86.8)
Yes	90 (13.2)
<b>Reverse halo</b>	
No	655 (96.1)
Yes	27 ( 3.9)
<b>Mosaic</b>	
No	628 (92.1)
Yes	54 ( 7.9)
<b>Emphysema</b>	
No	592 (86.8)
Yes	90 (13.2)
<b>Pleural effusion</b>	
No	619 (90.8)
Yes	63 ( 9.2)
<b>Striped shadow</b>	
No	296 (43.4)
Yes	386 (56.6)
<b>Apical segment of RUL lesion type</b>	
None	377 (55.3)
Ground glass	162 (23.7)
Mixed and consolidation	143 (21.1)
<b>Apical segment of RUL lesion size</b>	
None	377 (55.3)
< 3 cm	162 (23.7)
≥ 3 cm	143 (21.1)

<b>Posterior segment of RUL lesion type</b>	
None	350 (51.3)
Ground glass	207 (30.3)
Mixed and consolidation	125 (18.4)
<b>Posterior segment of RUL lesion size</b>	
None	350 (51.3)
< 3 cm	170 (24.9)
≥ 3 cm	162 (23.8)
<b>Anterior segment of RUL lesion type</b>	
None	440 (64.5)
Ground glass	108 (15.8)
Mixed and consolidation	134 (19.7)
<b>Anterior segment of RUL lesion size</b>	
None	440 (64.5)
< 3 cm	125 (18.4)
≤ 3 cm	117 (17.1)
<b>Outer segment of RML lesion type</b>	
None	359 (52.6)
Ground glass	179 (26.3)
Mixed and consolidation	144 (21.1)
<b>Outer segment of RML lesion size</b>	
None	359 (52.6)
< 3 cm	224 (32.9)
≥ 3 cm	99 (14.5)
<b>Inner segment of RML lesion type</b>	
None	449 (65.8)
Ground glass	134 (19.7)
Mixed and consolidation	99 (14.5)
<b>Inner segment of RML lesion size</b>	
None	458 (67.1)
< 3 cm	144 (21.1)
≥ 3 cm	80 (11.8)
<b>Dorsal segment of RLL lesion size type</b>	
None	324 (47.4)
Ground glass	179 (26.3)
Mixed and consolidation	179 (26.3)
<b>Dorsal segment of RLL lesion size</b>	
None	324 (47.4)
< 3 cm	170 (24.9)
≥ 3 cm	189 (27.7)
<b>Basal segment of RLL lesion type</b>	
None	432 (63.2)
Ground glass	125 (18.4)
Mixed and consolidation	125 (18.4)
<b>Basal segment of RLL lesion size</b>	
None	432 (63.2)
< 3 cm	125 (18.4)
≥ 3 cm	125 (18.4)

<b>Anterior basal segment of RLL lesion type</b>	
None	503 (73.7)
Ground glass	99 (14.5)
Mixed and consolidation	80 (11.8)
<b>Anterior basal segment of RLL lesion size</b>	
None	502 (73.7)
< 3 cm	54 (7.9)
≥ 3 cm	125 (18.4)
<b>Outer basal segment of RLL lesion type</b>	
None	270 (39.5)
Ground glass	188 (27.6)
Mixed and consolidation	224 (32.9)
<b>Outer basal segment of RLL lesion size</b>	
None	278 (40.8)
< 3 cm	153 (22.4)
≥ 3 cm	251 (36.8)
<b>Posterior basal segment of RLL lesion type</b>	
None	224 (32.9)
Ground glass	170 (24.9)
Mixed and consolidation	288 (42.1)
<b>Posterior basal segment of RLL lesion size</b>	
None	233 (34.2)
< 3 cm	179 (26.3)
≥ 3 cm	269 (39.5)
<b>Posterior apical segment of LUL lesion type</b>	
None	440 (64.5)
Ground glass	90 (13.2)
Mixed and consolidation	153 (22.4)
<b>Posterior apical segment of LUL lesion size</b>	
None	440 (64.5)
< 3 cm	80 (11.8)
≥ 3 cm	162 (23.7)
<b>Anterior segment of LUL lesion type</b>	
None	449 (65.8)
Ground glass	134 (19.7)
Mixed and consolidation	99 (14.5)
<b>Anterior segment of LUL lesion size</b>	
None	449 (65.8)
< 3 cm	108 (15.8)
≥ 3 cm	125 (18.4)
<b>Upper lingual segment of LUL lesion type</b>	
None	449 (65.8)
Ground glass	143 (21.1)
Mixed and consolidation	90 (13.2)
<b>Upper lingual segment of LUL lesion size</b>	
None	449 (65.8)
< 3 cm	117 (17.1)
≥ 3 cm	117 (17.1)

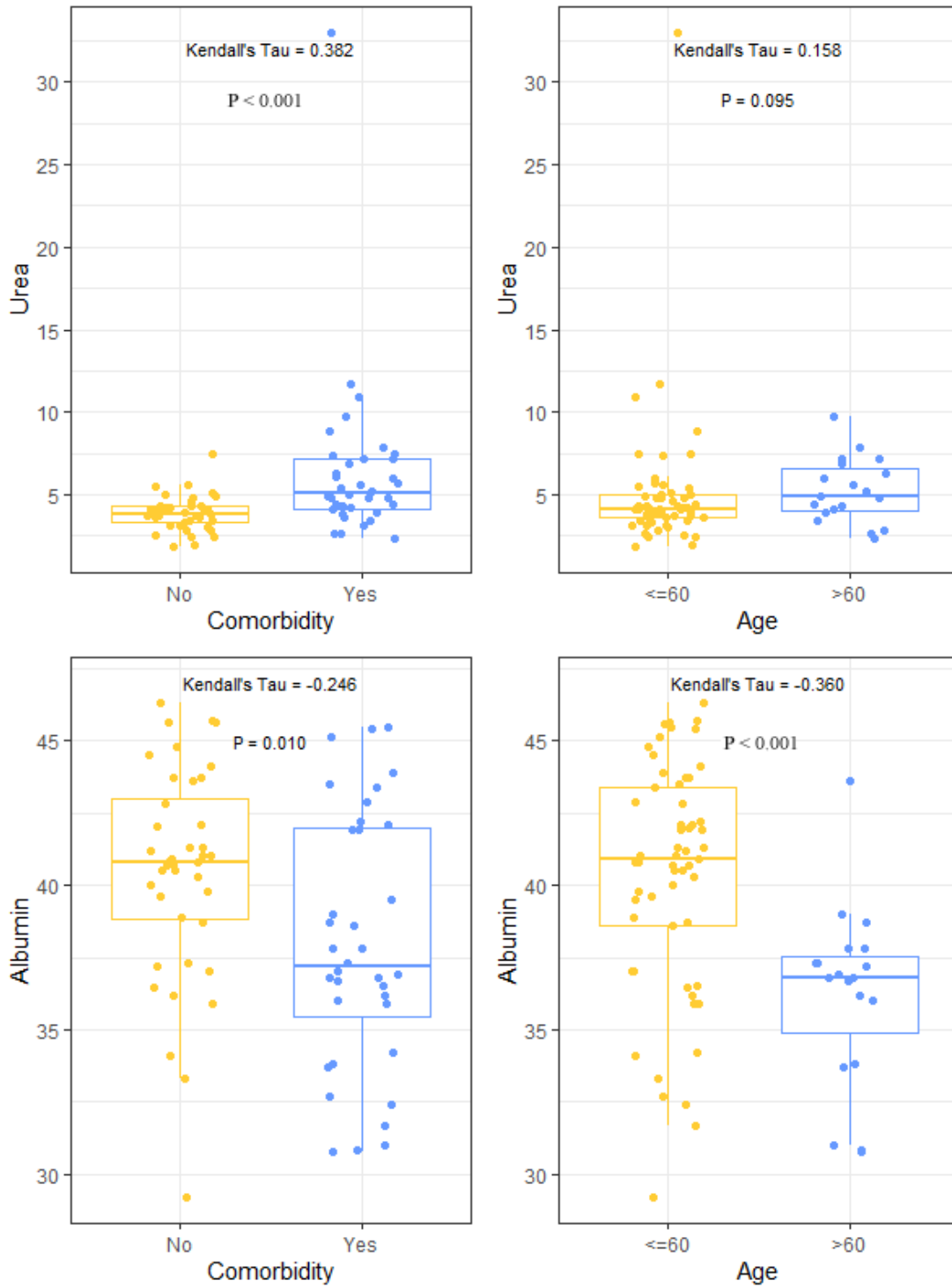
<b>Sublingual segment of LUL lesion type</b>	
None	404 (59.2)
Ground glass	134 (19.7)
Mixed and consolidation	144 (21.1)
<b>Sublingual segment of LUL lesion size</b>	
None	421 (61.8)
< 3 cm	126 (18.4)
≥ 3 cm	135 (19.7)
<b>Dorsal segment of LLL lesion type</b>	
None	350 (51.3)
Ground glass	170 (24.9)
Mixed and consolidation	162 (23.7)
<b>Dorsal segment of LLL lesion size</b>	
None	350 (51.3)
< 3 cm	117 (17.1)
≥ 3 cm	215 (31.6)
<b>Anterior medial basal segment of LLL lesion type</b>	
None	376 (55.3)
Ground glass	153 (22.4)
Mixed and consolidation	153 (22.4)
<b>Anterior medial basal segment of LLL lesion size</b>	
None	376(55.3)
< 3 cm	162 (23.7)
≥ 3 cm	144 (21.1)
<b>Outer basal segment of LLL lesion type</b>	
None	324 (47.4)
Ground glass	153 (22.4)
Mixed and consolidation	205 (30.3)
<b>Outer basal segment of LLL lesion size</b>	
None	324 (48.7)
< 3 cm	134 (19.7)
≥ 3 cm	215(31.6)
<b>Posterior basal segment of LLL lesion type</b>	
None	251 (36.8)
Ground glass	198 (28.9)
Mixed and consolidation	233 (34.2)
<b>Posterior basal segment of LLL lesion size</b>	
None	252 (36.8)
< 3 cm	215 (31.6)
≥ 3 cm	215 (31.6)

Abbreviations: BL, bilateral lung lesions; CV, consolidation; GGO, ground-glass opacity; RL, right lung lobe; LL, left lung lobe; RUL, right upper lung lobe; RML, right middle lung lobe; RLL, right lower lung lobe; LUL, left upper lung lobe; LLL, left lower lung lobe  
Values are expressed as No. (%)



**Appendix 3.** Decision curves of the four models





**Appendix 4.** Correlations between age, comorbidity and urea, albumin