

Table S1 Texture parameters extracted from baseline HRCT

Texture parameters	Median (IQR)		Mann-Whitney P value	Logistic regression P value
	Group 0	Group 1		
GLCM energy angular second moment	4.38 (0/6.91)	0.75 (0/5.31)	0.004	0.01
GLCM correlation	0.62 (0.42/0.78)	0.51 (0.39/0.71)	0.02	0.03
NGLDM contrast	0.33 (0.21/0.57)	0.26 (0.1/0.42)	0.04	0.05
GLZLM GLNU	4,440.22 (2,826.61/6,403.84)	5,768.04 (1,279.52/11,597.49)	0.08	0.07
Conventional HU excess kurtosis	1.15 (-0.89/2.46)	1.39 (-0.63/8.11)	0.08	0.07
Conventional HU kurtosis	4.15 (2.11/5.46)	4.39 (2.37/11.11)	0.08	0.07
Discretized HU max	265.5 (209/320)	292 (200/400)	0.07	0.08
Discretized HU excess kurtosis	1.15 (-0.88/2.46)	0.98 (-0.64/8.11)	0.09	0.08
Discretized HU kurtosis	4.15 (2.12/5.46)	3.98 (2.36/11.11)	0.09	0.08
Discretized HU std	24.96 (20.13/33.33)	23.76 (18.7/27.34)	0.06	0.08
Conventional HU std	280.76 (226.43/374.93)	267.25 (210.34/307.73)	0.07	0.09
GLRLM RLNU	440,662.26 (286,901.82/628,103.14)	597,428.19 (127,068.12/870,050.1)	0.12	0.09
Discretized HU min	19.5 (1/43)	43 (2/43)	0.11	0.12
GLRLM GLNU	8,192.46 (5,317.12/21,258.27)	12,324.91 (4,305.26/34,089.93)	0.15	0.13
Discretized HU max	1,478.98 (849.85/2,097.87)	1,781.1 (742.83/6,838.9)	0.15	0.14
NGLDM coarseness	1.52 (1.09/9.62)	3.06 (1.05/9.4)	0.18	0.18
Conventional HU min	-1,205.26 (-1,482.06/-1,024)	-1,024 (-1,488.74/-1,024)	0.24	0.24
GLZLM LZHGE	19,264.02 (3.18/4,065,798.74)	21,744.38 (16,206.53/7,945,520.97)	0.26	0.25
Discretized HISTO energy uniformity	0.02 (0.01/0.03)	0.02 (0.01/0.04)	0.33	0.28
Discretized HISTO entropy log10	1.89 (1.71/2)	1.88 (1.62/2)	0.37	0.3
Discretized HISTO entropy log2	6.27 (5.68/6.65)	6.24 (5.39/6.66)	0.37	0.3
Discretized HU Q1	57.5 (12/71)	56 (50/79)	0.28	0.31
GLZLM LZLGE	0.04 (0/9.69)	0.33 (0/4.19)	0.3	0.33
Discretized HU Q2	67.5 (20/82)	66.5 (55/98)	0.35	0.34
Conventional HU skewness	1.35 (0.65/1.73)	1.2 (0.07/2.69)	0.43	0.36
Discretized HU skewness	1.35 (0.65/1.72)	1.18 (0.07/2.69)	0.43	0.36
Conventional HU Q1	-858.15 (-936.65/-704.53)	-873.86 (-939.88/-621.88)	0.53	0.49
Conventional HU Q2	-749.01 (-858.35/-578.6)	-755.06 (-881.67/-401.1)	0.56	0.51
GLCM entropy log10	3.61 (3.21/3.85)	3.55 (3.15/3.91)	0.57	0.52
GLCM entropy log2 joint entropy	11.98 (10.66/12.78)	11.79 (10.45/12.99)	0.57	0.52
GLRLM LRLGE	2.44 (0.04/3.33)	2.66 (1.38/3.57)	0.55	0.53
GLZLM LGZE	2.01 (0.03/2.89)	2 (1.27/2.94)	0.54	0.54
GLRLM LGRE	2.17 (0.04/3.02)	2.25 (1.3/3.15)	0.55	0.54
GLRLM SRLGE	2.13 (0.04/2.95)	2.16 (1.28/3.06)	0.55	0.54

Table S1 (continued)

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Texture parameters	Median (IQR)		Mann-Whitney P value	Logistic regression P value
	Group 0	Group 1		
GLZLM SZHGE	5,882.01 (2,203.86/7,143.87)	5,927.76 (4,127.22/9,035.37)	0.6	0.57
GLZLM SZLGE	1.58 (0.02/2.28)	1.58 (1.07/2.17)	0.58	0.58
Discretized HU mean	75.51 (33.38/87.6)	74.64 (62.01/98.56)	0.6	0.58
GLZLM LZE	5.62 (2.31/11,106.19)	5.69 (2.16/2,766.69)	0.6	0.64
GLRLM SRHGE	6,246.32 (2,125.68/8,101.32)	5,986.96 (4,252.08/10,247.61)	0.71	0.68
GLZLM SZE	0.8 (0.76/0.85)	0.79 (0.77/0.85)	0.71	0.68
Discretized HISTO excess kurtosis	10.16 (3.56/32.57)	14.46 (0.31/27.18)	0.71	0.69
Discretized HISTO kurtosis	13.16 (6.56/35.57)	17.46 (3.31/30.18)	0.71	0.69
GLRLM HGRE	6,353.8 (2,151.54/8,322.19)	6,171 (4,335.9/10,385.24)	0.72	0.69
GLZLM HGZE	6,861.28 (2,496.59/9,033.33)	7,110.09 (4,911.42/10,548.23)	0.72	0.71
GLRLM LRHGE	6,662.62 (2,259.21/9,284.38)	6,892.36 (4,693.05/10,954.49)	0.77	0.75
GLZLM ZLNU	2,255.44 (-8,149.82/12,519.74)	2,730.74 (-14,945.47/12,528.5)	0.79	0.77
Conventional HU Q3	-566.76 (-710.73/-179.41)	-523.31 (-800.27/-167.63)	0.82	0.8
GLCM contrast variance	478.33 (268.29/746.99)	458.6 (311.72/689.44)	0.82	0.81
Discretized HISTO skewness	3.2 (2.17/5.47)	3.73 (1.44/5.07)	0.86	0.85
GLCM dissimilarity	14.62 (9.65/19.14)	13.59 (10.53/19.63)	0.86	0.85
Discretized HU Q3	81.5 (43/118)	87 (63/119)	0.88	0.87
NGLDM busyness	3.73 (2.28/11.99)	3.91 (1.49/7.3)	0.88	0.88
GLRLM LRE	1.1 (1.06/1.25)	1.11 (1.06/1.2)	0.93	0.93
GLRLM RP	0.97 (0.93/0.98)	0.97 (0.94/0.98)	0.94	0.94
GLCM homogeneity inverse difference	0.17 (0.12/0.26)	0.18 (0.12/0.24)	0.94	0.94
GLRLM SRE	0.98 (0.95/0.99)	0.98 (0.96/0.99)	0.94	0.94
Conventional HU mean	-656.17 (-763.85/-520.17)	-665.93 (-808.11/-396.8)	1	0.99
GLZLM ZP	0.66 (0.44/0.77)	0.64 (0.5/0.79)	1	1

Group 0, lungs with absence of fibrotic changes at follow-up; Group 1, lungs with presence of fibrotic changes at follow-up HRCT. HRCT, high resolution computed tomography; IQR, inter-quartile range; GLCM, gray level co-occurrence matrix; NGLDM, neighbourhood grey-level difference matrix; GLZLM, grey-level zone length matrix; GLNU, gray-level non-uniformity; HU, Hounsfield unit; std, standard deviation; GLRLM, grey-level run length matrix; RLNU, run length non-uniformity; LZHGE, long-zone high gray-level emphasis; HISTO, histogram; LZLGE, long-zone low gray-level emphasis; LRLGE, long-run low gray-level emphasis; LGZE, low gray-level zone emphasis; LGRE, low gray-level run emphasis; SZHGE, short-zone high gray-level emphasis; SRLGE, short-run low gray-level emphasis; SZLGE, short-zone low gray-level emphasis; LZE, long-zone emphasis; SRHGE, short-run high gray-level emphasis; SZE, short-zone emphasis; HGRE, high gray-level run emphasis; HGZE, high gray-level zone emphasis; LRHGE, long-run high gray-level emphasis; ZLNU, zone length non-uniformity; LRE, long-run emphasis; RP, run percentage; SRE, short-run emphasis; ZP, zone percentage.