

**Supplementary Table 3.** Characteristics of radiomic features for patients with AKI or without AKI

		Mean		SD		Entropy		MPP		Skewness		Kurtosis (IQR)	
		Median (IQR)	P-value	Median (IQR)	P-value	Median (IQR)	P-value	Median (IQR)	P-value	Median (IQR)	P-value	Median (IQR)	P-value
<b>Right kidney</b>													
SSF=0	No aki	100.86 (82.73 to 135.64)	0.81	26.59 (20.82 to 32.4)	0.003	4.6 (4.39 to 4.78)	0.007	101.27 (82.97 to 135.96)	0.73	-0.23 (-0.87 to -0.03)	0.46	0.94 (0.39 to 4.80)	0.021
	Aki	103.87 (89.64 to 132.05)	0.027	34.47 (29.59 to 43.10)	0.005	4.86 (4.68 to 5.03)	0.013	104.04 (91.23 to 132.17)	0.006	-0.43 (-0.74 to -0.23)	0.97	0.33 (-0.21 to 1.42)	0.3
SSF=2	No aki	0.97 (0.59 to 6.07)	0.027	57.19 (49.90 to 89.34)	0.005	5.33 (5.23 to 5.71)	0.013	45.21 (39.2 to 71.45)	0.006	0.04 (-0.31 to 0.14)	0.97	0.48 (0.26 to 0.71)	0.3
	Aki	5.06 (2 to 46.27)	0.027	85.98 (67.44 to 113.84)	0.005	5.72 (5.47 to 5.92)	0.025	70.34 (52.74 to 97.89)	0.025	-0.06 (-0.30 to 0.36)	0.99	0.25 (-0.05 to 0.89)	0.01
SSF=3	No aki	4.14 (1.54 to 17.5)	0.8	55.65 (47.04 to 88.85)	0.013	5.3 (5.10 to 5.63)	0.025	47.28 (33.48 to 73.81)	0.02	-0.08 (-0.35 to 0.53)	0.99	0.12 (-0.16 to 1.65)	0.01
	Aki	5.57 (0.027 to 78.86)	0.89	89.99 (62.62 to 129.32)	0.025	5.69 (5.34 to 6.02)	0.045	70.60 (53.06 to 122.92)	0.043	0.05 (-0.18 to 0.26)	0.71	-0.27 (-0.57 to 0.24)	0.007
SSF=4	No aki	5.19 (-0.03 to 18.34)	0.89	61.8 (42.55 to 84.02)	0.025	5.36 (4.98 to 5.58)	0.045	51.83 (29.795 to 71.22)	0.043	-0.06 (-0.63 to 0.55)	0.71	0.06 (-0.34 to 1.99)	0.007
	Aki	4.84 (-2.53 to 103.88)	0.64	91.98 (58.58 to 139.63)	0.039	5.61 (5.30 to 6.14)	0.13	71.32 (48.63 to 152.82)	0.07	-0.02 (-0.3 to 0.17)	0.65	-0.56 (-0.67 to 0.00)	0.004
SSF=5	No aki	8.27 (-0.09 to 24.99)	0.64	63.88 (37.83 to 73.42)	0.039	5.37 (4.87 to 5.4)	0.13	54.77 (28.12 to 66.825)	0.07	0.1 (-0.62 to 0.5)	0.65	-0.01 (-0.27 to 1.52)	0.004
	Aki	3.81 (-6.66 to 124.6)	0.62	88.79 (56.31 to 142.77)	0.052	5.59 (5.178 to 6.20)	0.12	66.70 (43.75 to 176.64)	0.12	-0.05 (-0.37 to 0.13)	0.3	-0.61 (-0.90 to -0.19)	0.018
SSF=6	No aki	11.7 (0.73 to 21.92)	0.62	60.85 (32.77 to 68.59)	0.052	5.28 (4.75 to 5.38)	0.12	47.69 (26.44 to 61.57)	0.12	0.09 (-0.43 to 0.38)	0.3	0.13 (-0.47 to 0.94)	0.018
	Aki	4.06 (-8.31 to 141.59)	0.62	77.37 (53.66 to 147.47)	0.052	5.49 (5.06 to 6.18)	0.12	62.25 (40.85 to 196.01)	0.12	-0.18 (-0.32 to 0.03)	0.3	-0.58 (-0.92 to -0.078)	0.018
<b>Left kidney</b>													
SSF=0	No aki	98.62 (79.5 to 123.63)	0.55	29.07 (21.92 to 36.54)	0.04	4.65 (4.42 to 4.84)	0.012	99.02 (80.5 to 124.07)	0.55	-0.65 (-1.85 to -0.22)	0.65	2.36 (0.69 to 8.12)	0.014
	Aki	104.75 (89.19 to 134.96)	0.14	36.48 (30.01 to 43.51)	0.007	4.87 (4.66 to 5.08)	0.012	105.31 (89.93 to 135.56)	0.009	-0.56 (-0.91 to -0.27)	0.12	0.63 (-0.02 to 1.76)	<0.001
SSF=2	No aki	2.91 (0.93 to 6.77)	0.14	55.55 (48.51 to 85.58)	0.007	5.32 (5.16 to 5.72)	0.012	42.38 (37.72 to 66.30)	0.009	-0.16 (-0.7 to 0.33)	0.12	1.5 (0.52 to 4.47)	<0.001
	Aki	5.45 (2.31 to 54.60)	0.84	89.7 (66.08 to 120.30)	0.007	5.67 (5.46 to 6.0)	0.018	79.84 (52.19 to 115.06)	0.029	0.02 (-0.31 to 0.46)	0.41	0.29 (0.09 to 0.77)	0.035
SSF=3	No aki	5 (2.05 to 13.83)	0.84	57.16 (41.80 to 86.17)	0.007	5.35 (5.03 to 5.69)	0.018	47.4 (34.52-70.88)	0.029	0.16 (-0.19 to 0.39)	0.41	0.17 (-0.29 to 1.39)	0.035
	Aki	3.91 (-0.10 to 86.15)	0.62	96.78 (59.86 to 136.98)	0.02	5.65 (5.34 to 6.12)	0.042	87.80 (47.52-143.27)	0.075	-0.02 (-0.34 to 0.27)	0.21	-0.24 (-0.46 to 0.173)	0.38
SSF=4	No aki	6.06 (1.38 to 15.14)	0.62	61.62 (37.30 to 89.30)	0.02	5.32 (4.94 to 5.69)	0.042	51.72 (32.02-77.6)	0.075	0.01 (-0.25 to 0.24)	0.21	-0.32 (-0.52 to 1.14)	0.38
	Aki	2.30 (-3.6 to 114.94)	0.53	97.21 (58.92 to 145.45)	0.016	5.64 (5.28 to 6.10)	0.057	75.39 (42.79-169.14)	0.096	-0.13 (-0.54 to 0.18)	0.28	-0.37 (-0.71 to 0.093)	0.91
SSF=5	No aki	6.29 (-0.66 to 21.35)	0.43	60.18 (33.34 to 85.09)	0.016	5.26 (4.83 to 5.59)	0.043	47.54 (29.45-74.21)	0.092	-0.07 (-0.36 to 0.20)	0.29	-0.46 (-0.79 to 0.33)	0.84
	Aki	0.73 (-7.43 to 141.36)	0.43	93.06 (55.16 to 154.55)	0.017	5.60 (5.22 to 6.19)	0.043	68.87 (39.37-183.26)	0.092	-0.18 (-0.57 to 0.09)	0.29	-0.48 (-0.74 to 0.038)	0.84
SSF=6	No aki	7.57 (-2.17 to 19.9)	0.43	58.09 (29.63 to 85.68)	0.017	5.2 (4.71 to 5.54)	0.043	43.68 (25.81-73.74)	0.092	-0.06 (-0.42 to 0.13)	0.29	-0.39 (-0.84 to 0.63)	0.84
	Aki	-0.88 (-13.54 to 162.35)	0.43	83.12 (49.80 to 157.09)	0.017	5.5 (5.14 to 6.26)	0.043	62.68 (37.29-210.41)	0.092	-0.25 (-0.56 to 0.02)	0.29	-0.49 (-0.75 to -0.028)	0.84
<b>Liver</b>													
SSF=0	No aki	79.3 (61.62 to 90.82)	0.027	20.67 (18.46 to 22.29)	0.29	4.42 (4.33 to 4.51)	0.33	79.36 (61.80 to 90.83)	0.027	0.05 (-0.08 to 0.20)	0.35	0.5 (0.27 to 0.96)	0.22
	Aki	91.26 (78.8 to 106.38)	0.14	22.15 (18.65 to 28.41)	0.09	4.5 (4.33 to 4.76)	0.3	91.27 (79.14 to 107.70)	0.17	0 (-0.12 to 0.09)	0.38	0.68 (0.31 to 1.79)	0.001
SSF=2	No aki	0.07 (-0.15 to 0.23)	0.14	49.03 (43.07 to 52.9)	0.09	5.3 (5.16 to 5.35)	0.3	39.19 (33.65 to 42.01)	0.17	0.09 (-0.07 to 0.27)	0.38	0.62 (0.26 to 1.48)	0.001
	Aki	0.26 (-0.047 to 3.66)	0.037	55.43 (46.14 to 69.47)	0.065	5.36 (5.20 to 5.60)	0.25	42.32 (35.96 to 54.42)	0.12	0.17 (-0.02 to 0.64)	0.19	2.34 (1.02 to 5.84)	0.014
SSF=3	No aki	0.1 (-0.08 to 0.20)	0.037	39.21 (35.55 to 49.32)	0.065	5.03 (4.96 to 5.16)	0.15	29.83 (27.32 to 38.5)	0.12	0.14 (-0.03 to 0.45)	0.19	1.14 (0.55 to 3.61)	0.014
	Aki	0.58 (0.05 to 7.32)	0.037	45.35 (37.08 to 69.84)	0.11	5.17 (4.96 to 5.38)	0.15	35.13 (28.63 to 48.5)	0.088	0.42 (0.03 to 1.13)	0.27	3.88 (1.56 to 9.35)	0.09
SSF=4	No aki	0.1 (-0.14 to 0.48)	0.037	33.66 (30.25 to 42.93)	0.11	4.91 (4.74 to 5.06)	0.15	26.26 (22.58 to 35.16)	0.088	0.34 (-0.03 to 0.78)	0.27	1.82 (0.82 to 6.87)	0.09
	Aki	0.85 (0.15 to 10.66)	0.026	40.28 (30.91 to 71.39)	0.18	5.06 (4.80 to 5.31)	0.14	30.75 (24.06 to 45.81)	0.13	0.55 (0.03 to 1.53)	0.32	4.78 (2.3 to 9.00)	0.44
SSF=5	No aki	0.21 (0.03 to 0.5)	0.026	30.67 (27.97 to 39.14)	0.18	4.77 (4.63 to 4.93)	0.14	23.09 (20.36 to 32.36)	0.13	0.41 (-0.10 to 1.10)	0.32	3.43 (0.93 to 8.77)	0.44
	Aki	1.07 (0.17 to 15.35)	0.029	36.25 (26.35 to 75.52)	0.2	4.95 (4.64 to 5.33)	0.18	27.12 (20.65 to 49.97)	0.14	0.735 (0.11 to 1.62)	0.28	4.5 (2.34 to 8.73)	0.64
SSF=6	No aki	0.27 (0 to 0.72)	0.029	28.14 (25.37 to 37.05)	0.2	4.63 (4.53 to 4.91)	0.18	20.48 (18.8 to 30.37)	0.14	0.38 (-0.11 to 1.36)	0.28	5.35 (0.79 to 7.68)	0.64
	Aki	1.11 (0.18 to 20.87)	0.029	33.08 (23.51 to 80.36)	0.2	4.82 (4.52 to 5.38)	0.18	25.04 (18.19 to 52.65)	0.14	0.79 (0.078 to 1.54)	0.28	4.63 (1.72 to 9.33)	0.64

AKI: acute kidney injury; IQR: interquartile range; SD: standard deviation; MPP: mean positive pixel; SSF: spatial scale filter.