

**Supplementary Table 2.** Characteristics of radiomic features for dead and surviving patients

	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	Survivor	104.29 (91.8 to 135.6)	0.22	34.18 (28.57 to 42.16)	0.15	4.85 (4.67 to 5.01)	0.2	104.63 (92.0 to 135.9)	0.22	-0.54 (-0.87 to -0.25)	0.04	0.52 (-0.06 to 2.16)	0.29
	Dead	96.55 (81.39 to 115.1)		29.60 (20.37 to 40.00)		4.68 (4.388 to 4.963)		97.67 (82.27 to 116.42)		-0.2 (-0.64 to -0.09)		0.25 (-0.22 to 0.93)	
SSF=2	Survivor	4.11 (1.81 to 38.85)	0.16	80.99 (62.15 to 107.10)	0.39	5.66 (5.36 to 5.90)	0.36	70.2 (46.35 to 96.81)	0.39	0.04 (-0.27 to 0.31)	0.54	0.36 (0 to 0.86)	0.66
	Dead	1.98 (-1.26 to 37.05)		77.30 (46.66 to 103.8)		5.59 (5.11 to 5.85)		60.02 (37.80 to 88.6)		-0.16 (-0.31 to 0.20)		0.31 (-0.13 to 1.01)	
SSF=3	Survivor	6.62 (1.04 to 63.14)	0.16	88.34 (58.12 to 117.0)	0.16	5.66 (5.31 to 5.97)	0.18	69.97 (47.53 to 118.6)	0.19	0.07 (-0.23 to 0.3)	0.52	-0.19 (-0.56 to 0.27)	0.51
	Dead	0.74 (-3.08 to 61.04)		72.87 (42.26 to 103.08)		5.48 (5 to 5.87)		57.55 (33.87 to 107.40)		-0.05 (-0.2 to 0.20)		-0.15 (-0.40 to 0.35)	
SSF=4	Survivor	5.55 (0.11 to 87.03)	0.26	82.24 (59.84 to 125.33)	0.15	5.47 (5.32 to 6.03)	0.21	70.98 (48.05 to 141.30)	0.17	-0.04 (-0.37 to 0.22)	0.66	-0.47 (-0.67 to 0.11)	0.38
	Dead	-0.31 (-6.23 to 85.56)		71.64 (37.86 to 107.55)		5.57 (4.93 to 5.92)		54.96 (29.99 to 122.27)		-0.04 (-0.2 to 0.2)		-0.25 (-0.58 to 0.08)	
SSF=5	Survivor	8.27 (-0.73 to 108.16)	0.3	74.03 (58.85 to 123.90)	0.19	5.41 (5.25 to 6.01)	0.15	65.33 (45.91 to 159.81)	0.18	-0.03 (-0.4 to 0.16)	0.17	-0.41 (-0.87 to 0.2)	0.68
	Dead	-2.01 (-7.51 to 109.25)		69.14 (30.43 to 107.25)		5.26 (4.76 to 5.91)		52.5 (25.69 to 135.83)		-0.05 (-0.19 to 0.27)		-0.56 (-0.77 to -0.19)	
SSF=6	Survivor	7.77 (-0.79 to 124.51)	0.31	68.8 (55.81 to 120.37)	0.22	5.42 (5.18 to 6)	0.17	58.66 (42.38 to 173.13)	0.22	-0.21 (-0.46 to 0.1)	0.16	-0.14 (-0.82 to 0.37)	0.29
	Dead	-2.66 (-8.92 to 131.16)		65.05 (26.8 to 107.59)		5.23 (4.64 to 5.93)		48.88 (21.18 to 152.5)		-0.09 (-0.26 to 0.18)		-0.58 (-0.86 to -0.21)	
<b>Left kidney</b>													
SSF=0	Survivor	109.82 (89.21 to 138.9)	0.31	35.96 (29.02 to 42.04)	0.32	4.86 (4.65 to 5.04)	0.32	110.49 (89.6 to 139.64)	0.35	-0.52 (-0.96 to -0.22)	0.49	0.72 (0.02 to 2.21)	0.61
	Dead	94.04 (79.1 to 127.23)		30.74 (24.65 to 41.76)		4.77 (4.488 to 5.04)		96.22 (81.14 to 127.6)		-0.59 (-1.01 to -0.35)		0.91 (0.023 to 2.45)	
SSF=2	Survivor	4.91 (1.93 to 49.83)	0.69	80.26 (60.9 to 107.4)	0.6	5.64 (5.37 to 5.91)	0.56	70.36 (45.6 to 100.2)	0.71	-0.04 (-0.35 to 0.47)	0.78	0.48 (0.12 to 1.02)	0.85
	Dead	3.97 (1.91 to 55.27)		70.91 (53.61 to 124.6)		5.56 (5.27 to 5.98)		57.16 (41.8 to 112.3)		-0.06 (-0.37 to 0.38)		0.41 (0.13 to 1.32)	
SSF=3	Survivor	4.89 (0.58 to 81.8)	0.77	80.7 (57.72 to 125.9)	0.44	5.6 (5.33 to 5.98)	0.46	67.57 (47.13 to 128.43)	0.41	0.16 (-0.31 to 0.32)	0.18	-0.17 (-0.44 to 0.27)	0.75
	Dead	5.16 (-3.81 to 84.25)		73.13 (44.50 to 122.59)		5.47 (5.10 to 6.02)		56.53 (36.46 to 132.7)		-0.14 (-0.34 to 0.20)		-0.16 (-0.40 to 0.46)	
SSF=4	Survivor	3.61 (-0.96 to 110.4)	0.89	96.44 (59.19 to 135.33)	0.33	5.56 (5.27 to 6.05)	0.33	69.37 (42.7 to 157.1)	0.29	0 (-0.46 to 0.24)	0.07	-0.47 (-0.76 to -0.01)	0.04
	Dead	3.87 (-5.61 to 107.65)		72.69 (42.01 to 126.2)		5.43 (5.05 to 6.11)		55.47 (32.40 to 156.5)		-0.21 (-0.54 to -0.02)		-0.13 (-0.40 to 0.67)	
SSF=5	Survivor	2.42 (-3.87 to 136.6)	0.8	91.87 (56.45 to 139.73)	0.35	5.58 (5.23 to 6.07)	0.25	70.73 (39.8 to 176.54)	0.24	-0.16 (-0.51 to 0.18)	0.39	-0.54 (-0.84 to -0.08)	0.07
	Dead	2.83 (-11.08 to 126.7)		71.57 (38.38 to 134.6)		5.27 (4.943 to 6.16)		57.92 (29.5 to 175.87)		-0.22 (-0.58 to 0.02)		-0.08 (-0.6 to 0.258)	
SSF=6	Survivor	1.11 (-4.97 to 156.45)	0.8	82.05 (53.20 to 148.1)	0.33	5.47 (5.16 to 6.115)	0.23	65.58 (39.9 to 203.09)	0.31	-0.25 (-0.5 to 0.01)	0.88	-0.53 (-0.84 to -0.04)	0.11
	Dead	1.25 (-11.41 to 143.0)		66.72 (36.67 to 143.73)		5.18 (4.86 to 6.19)		55.27 (27.16 to 193.4)		-0.11 (-0.67 to 0.09)		-0.16 (-0.67 to 0.27)	
<b>Liver</b>													
SSF=0	Survivor	91.24 (76.35 to 104.30)	0.73	21.68 (19.02 to 26.23)	0.73	4.48 (4.35 to 4.68)	0.75	91.24 (77.17 to 104.37)	0.71	0.01 (-0.13 to 0.1)	0.75	0.66 (0.36 to 1.75)	0.32
	Dead	86.05 (77.18 to 95.03)		20.42 (18.41 to 32.25)		4.42 (4.31 to 4.87)		86.07 (77.63 to 95.05)		0.03 (-0.10 to 0.19)		0.53 (0.26 to 1.03)	
SSF=2	Survivor	0.2 (-0.03 to 2.82)	0.72	53.6 (46.00 to 66.38)	0.64	5.33 (5.2 to 5.46)	0.79	40.21 (35.835 to 51.39)	0.83	0.12 (-0.02 to 0.64)	0.71	1.58 (0.54 to 5.43)	0.8
	Dead	0.07 (-0.10 to 3.375)		49.39 (44.32 to 70.38)		5.28 (5.17 to 5.65)		39.42 (34.22 to 55.44)		0.13 (-0.06 to 0.41)		1.62 (0.89 to 3.1)	
SSF=3	Survivor	0.25 (0.07 to 5.98)	0.63	41.85 (36.96 to 64.12)	0.88	5.11 (4.98 to 5.35)	1	32.62 (28.3 to 45.29)	0.94	0.34 (0.03 to 1.13)	0.4	3.24 (0.95 to 8.54)	0.88
	Dead	0.28 (-0.13 to 5.625)		44.35 (36.01 to 65.15)		5.1 (4.95 to 5.34)		33.56 (28.49 to 49.04)		0.19 (-0.06 to 0.60)		3.19 (1.60 to 7.91)	
SSF=4	Survivor	0.55 (0.1 to 9.8)	0.82	39.69 (30.75 to 69.51)	0.99	4.93 (4.80 to 5.27)	0.91	27.82 (23.39 to 43.26)	0.95	0.54 (0.01 to 1.45)	0.35	4.1 (1.58 to 8.76)	0.82
	Dead	0.70 (-0.16 to 8.34)		37.72 (31.01 to 59.60)		4.95 (4.78 to 5.36)		27.75 (24.01 to 45.80)		0.42 (-0.11 to 0.69)		4.19 (2.22 to 8.89)	
SSF=5	Survivor	0.6 (0.195 to 12.25)	0.68	32.5 (26.63 to 71.28)	0.99	4.86 (4.63 to 5.29)	0.76	26.71 (20.53 to 45.97)	0.98	0.77 (-0.02 to 1.55)	0.25	4.26 (2.02 to 8.69)	0.95
	Dead	0.73 (-0.06 to 9.62)		34.38 (26.56 to 63.12)		4.87 (4.64 to 5.32)		25.43 (20.65 to 43.76)		0.4 (0.11 to 0.78)		3.30 (2.32 to 8.95)	
SSF=6	Survivor	0.81 (0.17 to 14.4)	0.72	30.62 (23.5 to 74.62)	0.92	4.72 (4.5 to 5.25)	0.78	23.44 (18.42 to 49.97)	0.99	1 (0.01 to 1.53)	0.29	5.2 (1.58 to 9.49)	0.64
	Dead	0.7 (-0.07 to 12.21)		31.64 (23.95 to 64.87)		4.80 (4.55 to 5.21)		23.62 (18.16 to 46.29)		0.36 (0.078 to 0.78)		3.22 (1.52 to 7.57)	

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