

Supplemental Table 1. Absolute values for test and retest scans with regions of interest delineated on LD-CT

Patient no.	Lesion	TEST					RETEST			
		VOI (cm ³)	BSIF		IDIF		VOI (cm ³)	IDIF		
			Perfusion (ml•cm ⁻³ •min ⁻¹)	V _T (ml•cm ⁻³)	Perfusion (ml•cm ⁻³ •min ⁻¹)	V _T (ml•cm ⁻³)		Perfusion (ml•cm ⁻³ •min ⁻¹)	V _T (ml•cm ⁻³)	
1	Primary*	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Primary	15.4	0.14	0.38	0.10	0.48	16.4	0.11	0.39	0.39
3	Primary	378.9	0.17	0.38	0.18	0.48	358.9	0.19	0.42	0.42
4	Primary	11.1	0.04	0.21	0.05	0.38	9.4	0.05	0.23	0.23
5	Primary	19.0	0.70	0.71	0.72	0.84	16.1	0.72	0.81	0.81
6	Primary	43.4	0.29	0.70	0.28	0.63	39.6	0.28	0.52	0.52
7	Primary	210.9	0.18	0.55	0.25	0.74	203.3	0.28	0.83	0.83
	Ln _m	4.5	0.11	0.38	0.16	0.51	6.7	0.22	0.59	0.59
	Ln _m	2.2	0.12	0.36	0.18	0.48	2.6	0.18	0.64	0.64
8	Primary	2.4	0.07	0.35	0.14	0.47	2.7	0.17	0.30	0.30
9	Primary	10.9	0.34	0.85	0.27	0.69	9.9	0.25	0.71	0.71
10	Primary	1.9	0.16	0.32	0.20	0.39	2.4	0.21	0.30	0.30
11	Primary	31.9	0.52	0.71	0.68	0.88	n.a.	n.a.	n.a.	n.a.
	Ln _m	1.4	0.29	0.43	0.34	0.52	n.a.	n.a.	n.a.	n.a.

* Tumor could not be defined due to post-obstruction atelectasis, which could not be distinguished from the primary tumor

BSIF, blood sampler input curve; IDIF, image derived input function; VOI, volume of interest; V_T, volume of distribution; Ln_m lymph node metastasis; n.a., not available

Supplemental Table 2. Absolute values for test and retest scans with regions of interest delineated on parametric perfusion images

Patient no.	Lesion	TEST			RETEST		
		VOI (cm ³)	Perfusion NLR / image* (ml•cm ⁻³ •min ⁻¹)	V _T NLR / image* (ml•cm ⁻³)	VOI (cm ³)	Perfusion NLR / image* (ml•cm ⁻³ •min ⁻¹)	V _T NLR / image* (ml•cm ⁻³)
1	Primary**	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Primary	4.4	0.12 / 0.11	0.37 / 0.40	2.0	0.14 / 0.15	0.41 / 0.43
3	Primary	40.8	0.38 / 0.39	0.63 / 0.59	58.3	0.43 / 0.44	0.53 / 0.51
4	Primary	13.6	0.20 / 0.18	0.64 / 0.59	10.3	0.25 / 0.22	0.45 / 0.40
5	Primary	15.0	0.69 / 0.67	0.78 / 0.75	19.3	0.72 / 0.73	0.75 / 0.73
6	Primary	15.5	0.61 / 0.56	0.70 / 0.68	52.6	0.52 / 0.47	0.64 / 0.62
7	Primary	71.5	0.31 / 0.30	0.84 / 0.85	67.3	0.32 / 0.32	0.92 / 0.91
	Ln _m	1.5	0.28 / 0.24	0.49 / 0.53	1.9	0.31 / 0.30	0.61 / 0.61
	Ln _m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8	Primary	9.3	0.20 / 0.19	0.43 / 0.46	8.5	0.19 / 0.19	0.30 / 0.36
9	Primary	15.4	0.37 / 0.40	0.49 / 0.50	22.3	0.33 / 0.39	0.54 / 0.56
10	Primary	2.0	0.24 / 0.15	0.40 / 0.26	1.9	0.26 / 0.10	0.40 / 0.19
11	Primary	7.7	0.46 / 0.40	0.40 / 0.41	n.a.	n.a.	n.a.
	Ln _m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

* NLR values determined by NLR of tumor tissue-activity curves; image values directly taken from parametric images

** Tumor could not be defined due to post-obstruction atelectasis, which could not be distinguished from the primary tumor

VOI, volume of interest; NLR, non-linear regression; V_T, volume of distribution; Ln_m, lymph node metastasis; n.a., not available