

SUPPLEMENTARY MATERIALS

Supplemental Table 1. Complete list of VOIs and mean SUV_{BW} for healthy controls. Organs with statistically significant differences in LD/STD SUV are indicated in red.

Volume of interest	LD SUV _{BW}	STD SUV _{BW}	Absolute %-diff	Unpaired T-Test	Paired T-Test
Adrenal gland	1.6 ± 0.5	1.4 ± 0.3	15%	p = 0.09	p = 0.03
Aorta	1.7 ± 0.2	1.6 ± 0.3	2%	p = 0.75	p = 0.40
Inferior vena cava	1.5 ± 0.2	1.5 ± 0.2	3%	p = 0.61	p = 0.22
Bladder	37 ± 22	26 ± 10	33%	p = 0.07	p = 0.13
Brain	6.4 ± 1.1	6.6 ± 1.1	3%	p = 0.56	p = 0.01
Heart	3.0 ± 1.7	2.6 ± 1.5	14%	p = 0.46	p = 0.04
Kidney	2.7 ± 0.5	2.8 ± 0.4	4%	p = 0.47	p = 0.22
Liver	2.0 ± 0.3	2.0 ± 0.3	1%	p = 0.85	p = 0.66
Pancreas	1.4 ± 0.2	1.5 ± 0.2	1%	p = 0.83	p = 0.65
Spleen	1.5 ± 0.2	1.5 ± 0.2	1%	p = 0.87	p = 0.37
Lung	0.6 ± 0.1	0.6 ± 0.1	5%	p = 0.49	p = 0.05
Skeletal muscle	0.6 ± 0.1	0.6 ± 0.1	6%	p = 0.25	p = 0.01
Subcutaneous fat	0.4 ± 0.1	0.4 ± 0.1	3%	p = 0.61	p = 0.74
Thyroid	1.3 ± 0.3	1.2 ± 0.3	5%	p = 0.58	p = 0.22
Carpal	0.4 ± 0.2	0.4 ± 0.2	0%	p = 0.98	p = 0.97
Clavicle	0.8 ± 0.2	0.8 ± 0.2	1%	p = 0.87	p = 0.91
Femur	0.4 ± 0.1	0.4 ± 0.1	1%	p = 0.92	p = 0.80
Humerus	0.5 ± 0.1	0.5 ± 0.1	7%	p = 0.35	p = 0.68
Radius	0.5 ± 0.1	0.5 ± 0.1	5%	p = 0.59	p = 0.42
Scapula	0.8 ± 0.1	0.7 ± 0.1	1%	p = 0.83	p = 0.52
Tibia	0.3 ± 0.1	0.3 ± 0.1	0%	p = 0.95	p = 0.92
Ulna	0.4 ± 0.1	0.5 ± 0.1	9%	p = 0.26	p = 0.43
Ribcage	1.0 ± 0.2	0.9 ± 0.1	2%	p = 0.66	p = 0.34
Spine	1.3 ± 0.2	1.3 ± 0.2	1%	p = 0.90	p = 0.68
Myocardium	5.2 ± 4.8	4.4 ± 4.3	16%	p = 0.62	p = 0.07
Atrium	1.7 ± 0.2	1.6 ± 0.3	3%	p = 0.59	p = 0.20
Ventricle	2.8 ± 1.3	2.5 ± 1.2	13%	p = 0.40	p = 0.05
Iliac artery	1.4 ± 0.3	1.2 ± 0.3	9%	p = 0.19	p = 0.05
Iliac vena	1.5 ± 0.5	1.3 ± 0.2	15%	p = 0.09	p = 0.08
Pulmonary artery	1.7 ± 0.3	1.6 ± 0.3	2%	p = 0.78	p = 0.51
Autochthon	0.6 ± 0.1	0.6 ± 0.1	1%	p = 0.92	p = 0.78
Gluteus maximus	0.5 ± 0.1	0.5 ± 0.1	0%	p = 0.94	p = 0.86
Gluteus medius	0.6 ± 0.1	0.6 ± 0.1	3%	p = 0.68	p = 0.23
Gluteus minimus	0.6 ± 0.1	0.6 ± 0.1	6%	p = 0.37	p = 0.10
Iliopsoas	0.7 ± 0.1	0.6 ± 0.1	7%	p = 0.26	p = 0.11

Supplemental Table 2. Volumes of segmented lesions in lung cancer patients. Average value and P value are indicated in bold.

Lesion ID	Test LD Volume [cm³]	Retest STD Volume [cm³]	Absolute diff
Pat-001_vol1	5.6	17.8	103%
Pat-001_vol2	-	1.8	-
Pat-001_vol3	-	1.4	-
Pat-001_vol4	-	0.4	-
Pat-001_vol5	-	0.4	-
Pat-002_vol1	0.2	0.5	94%
Pat-003_vol1	4.6	8.9	63%
Pat-003_vol2	-	0.5	-
Pat-003_vol3	-	1.1	-
Pat-003_vol4	-	0.7	-
Pat-004_vol1	234.1	248.3	6%
Pat-006_vol1	7.1	7.5	6%
Pat-006_vol2	2.5	3.4	30%
Pat-006_vol3	1.6	1.7	10%
Pat-006_vol4	0.7	0.9	22%
Pat-006_vol5	0.6	0.8	34%
Pat-007_vol1	0.9	1.0	11%
Average			(41 ± 37) %
Paired T-Test			p = 0.12