

WHOLE POPULATION

Gas Volume	WHOLE LUNG		HYPO/NON-INFLATED LUNG	
	MEAN	SD	MEAN	SD
Hyperinflated area (cm ²)	994	756	x	x
Normoinflated area (cm ²)	1305	496	x	x
Poorly inflated area (cm ²)	889	398	889	398
Non-inflated area (cm ²)	372	321	372	321
Hyperinflated area %	27	17	x	x
Normoinflated area %	37	11	x	x
Poorly inflated area %	26	11	74	15
Non-inflated area %	11	10	26	15

Blood Volume	WHOLE LUNG		HYPO/NON-INFLATED LUNG	
	MEAN	SD	MEAN	SD
Non-perfused area (cm ²)	461	286	176	150
Perfused area (cm ²)	3005	913	1030	479
Non-Perfused area %	14	8	15	11
Perfused area %	86	8	85	11
Kurtosis	2.99	0.81	2.47	1.11

Wilcoxon rank sum test. Whole vs Hypoinflated

p ($\alpha = 0.05$)

0.74
< 0.01 *
0.06
0.06
< 0.01 *

Table E1

No-Steroids

Gas Volume Maps	WHOLE LUNG		HYPO/NON-INFLATED LUNG	
	MEAN	SD	MEAN	SD
Hyperinflated area (cm ²)	1120	703	x	x
Normoinflated area (cm ²)	1456	587	x	x
Poorly inflated area (cm ²)	960	356	960	356
Non-inflated area (cm ²)	483	297	483	297
Hyperinflated area %	27	13	x	x
Normoinflated area %	36	9	x	x
Poorly inflated area %	24	8	68	12
Non-inflated area %	13	8	32	12

Blood Volume Maps	WHOLE LUNG		HYPO/NON-INFLATED LUNG	
	MEAN	SD	MEAN	SD
Non-perfused area (cm ²)	568	346	261	144
Perfused area (cm ²)	3380	1148	1125	418
Non-Perfused area %	15	7	19	8
Perfused area %	85	7	81	8
Kurtosis	2.43	0.50	1.91	0.35

Panel A

Wilcoxon rank sum test. Whole vs Hypoinflated

p (α = 0.05)	
0.01	*
< 0.01	*
< 0.01	*
< 0.01	*
< 0.01	*

Steroids

Gas Volume Maps	WHOLE LUNG		HYPO/NON-INFLATED LUNG	
	MEAN	SD	MEAN	SD
Hyperinflated area (cm ²)	944	778	x	x
Normoinflated area (cm ²)	1245	448	x	x
Poorly inflated area (cm ²)	861	414	861	415
Non-inflated area (cm ²)	328	324	328	324
Hyperinflated area %	26	19	x	x
Normoinflated area %	37	11	x	x
Poorly inflated area %	26	12	75	15
Non-inflated area %	10	11	25	15

Blood Volume Maps	WHOLE LUNG		HYPO/NON-INFLATED LUNG	
	MEAN	SD	MEAN	SD
Non-perfused area (cm ²)	419	250	143	140
Perfused area (cm ²)	2857	767	993	500
Non-Perfused area %	13	8	13	11
Perfused area %	87	8	87	11
Kurtosis	3.22	0.80	2.69	1.21

Panel B

Wilcoxon rank sum test. Whole vs Hypoinflated

p (α = 0.05)	
< 0.01	*
< 0.01	*
0.42	
< 0.01	*
< 0.01	*

No-Steroids vs Steroids

Gas Volume Maps p (α = 0.05)	
Hyperinflated area (cm ²)	0.24
Normoinflated area (cm ²)	0.23
Poorly inflated area (cm ²)	0.30
Non-inflated area (cm ²)	0.01 *

WHOLE LUNG	
Blood Volume Maps p (α = 0.05)	
Non-perfused area (cm ²)	0.09
Perfused area (cm ²)	0.09
Non-Perfused area %	0.11
Perfused area %	0.10
Kurtosis	< 0.01 *

HYPO/NON-INFLATED LUNG	
Blood Volume Maps p (α = 0.05)	
Non-perfused area (cm ²)	< 0.01 *
Perfused area (cm ²)	0.25
Non-Perfused area %	< 0.01 *
Perfused area %	0.25
Kurtosis	< 0.01 *

Panel C

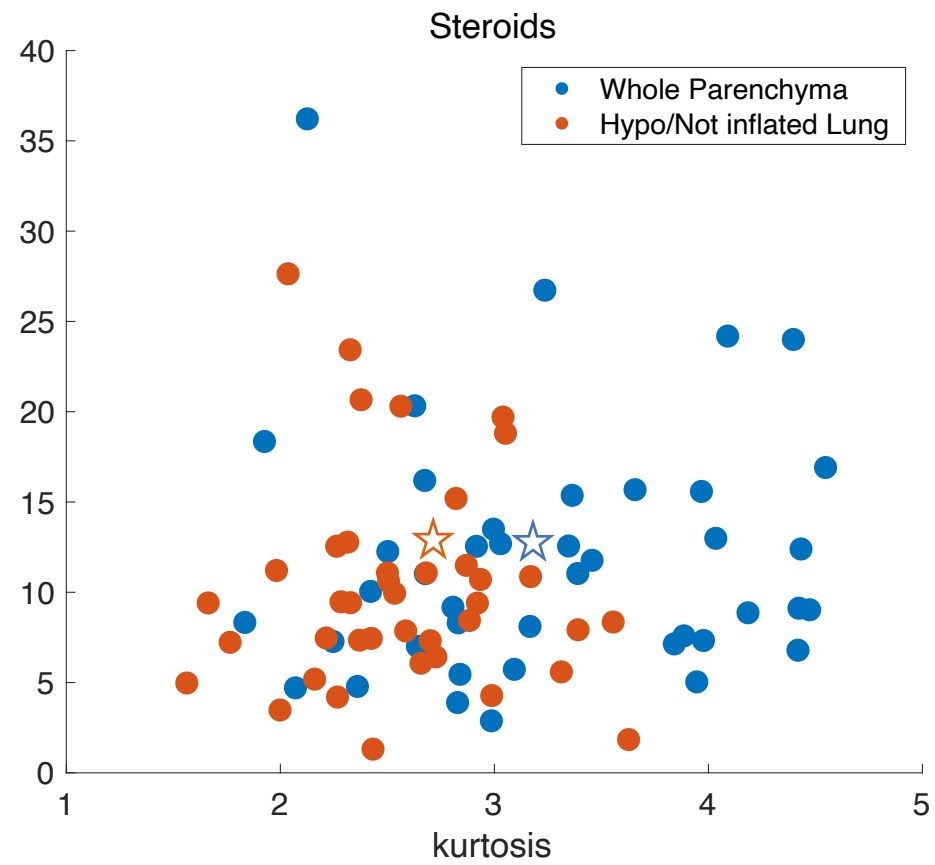
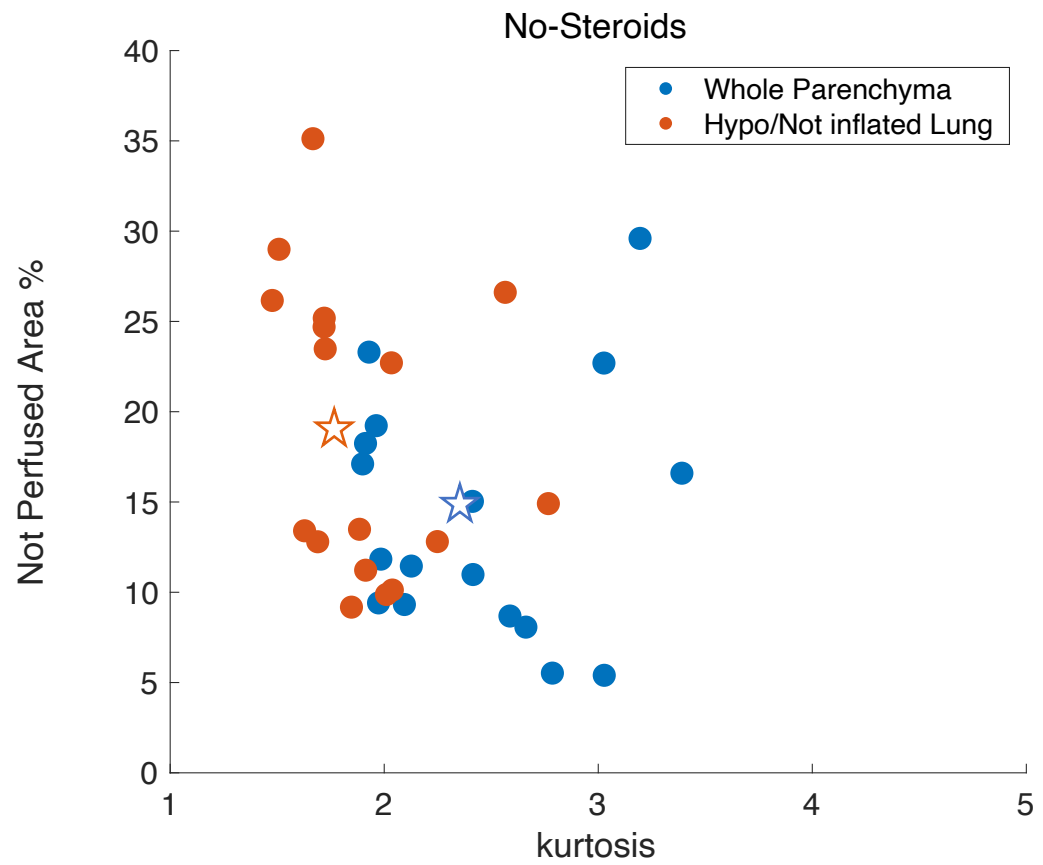


Figure E1

