

		IPF Progression Rate		p
		Slow/Stable	Rapid	
Peak Enhancement (PE) (%)	Whole Lung	230 (190, 300)	140 (120, 180)	0.04
	Lower Axial	170 (150, 260)	100 (88, 110)	0.04
	Middle Axial	230 (180, 290)	150 (150, 180)	0.075
	Upper Axial	230 (200, 270)	110 (100, 220)	0.13
	Posterior Coronal	250 (210, 340)	190 (140, 200)	0.055
Time to Peak (TTP) (min)	Whole Lung	0.21 (0.19, 0.22)	0.23 (0.22, 0.27)	0.16
	Lower Axial	0.21 (0.18, 0.22)	0.23 (0.22, 0.28)	0.14
	Middle Axial	0.21 (0.18, 0.23)	0.22 (0.20, 0.29)	0.27
	Upper Axial	0.20 (0.17, 0.22)	0.22 (0.20, 0.25)	0.24
	Posterior Coronal	0.22 (0.21, 0.22)	0.24 (0.22, 0.28)	0.44
k _{washin} (%/min)	Whole Lung	1100 (990, 1400)	800 (420, 830)	0.055
	Lower Axial	980 (760, 1100)	440 (300, 620)	0.028
	Middle Axial	1160 (850, 1500)	860 (510, 890)	0.13
	Upper Axial	1160 (1030, 1600)	700 (380, 1100)	0.075
	Posterior Coronal	1200 (1000, 1500)	900 (480, 1000)	0.075
k _{washout} (%/min)	Whole Lung	-15 (-18, -9.2)	1.9 (-2.6, , 5.8)	0.0027
	Lower Axial	-10 (-18, -5.3)	6.9 (5.3, 12)	<0.001
	Middle Axial	-16, (-20, -7.0)	1.1 (-6.4, 6.3)	0.008
	Upper Axial	-13 (-21 , -10)	, -2.3 (-4.4, 1.1)	0.0027
	Posterior Coronal	-16 (-20, -12)	0.13 (-6.6, 7.3)	0.028
AUC ₆₀ (%*sec)	Whole Lung	9100 (8400, 9800)	6100 (6100, 8200)	0.099
	Lower Axial	9400 (7700, 11000)	5100 (5000, 6100)	0.028
	Middle Axial	8800 (7600, 9800)	7000 (6500, 8000)	0.25
	Upper Axial	8300 (7800, 9200)	5000 (4800, 9500)	0.37
	Posterior Coronal	10000 (8300, 11000)	8100 (7400, 9100)	0.21

Supplementary Table 1. MRI Parameters by IPF Subgroup (Slow / Stable versus Rapid). Data presented as median (interquartile range).

Supplementary Table 2. Coefficient of variation calculated as the percentage of the standard deviation over the mean from the whole lung ROI for each DCE-MRI parameter.

	HC (17)	IPF (16)
Peak Enhancement	83.6 (68.6 – 93.7)	74.3 (58.6 – 94.7)
TTP	57.1 (32.8 – 81.4)	115.0 (90.6 – 140.4)
k_{washin}	81.1 (59.6 – 102.8)	106.5 (96.8 – 117.6)
k_{washout}	90.3 (63.9 – 117.0)	205.0 (144.8 – 275.2)
AUC_60	84.8 (62.9 – 105.5)	81.7 (64.7 – 97.5)

Data reported as median (interquartile range).