

**Supplementary Table S1.** Comparisons of correlations between emphysema indices and COPD parameters between the original and the kernel-converted images by different manufacturers

	GE (n=255)		Philips (n=93)		Siemens (n=114)	
	Original	Converted	Original	Converted	Original	Converted
FEV <sub>1</sub> , %	-0.36*	-0.36*	-0.07	-0.21*	-0.27*	-0.38*
DLco, %	-0.58*	-0.56*	-0.40*	-0.49*	-0.29*	-0.39*
RV/TLC	0.34*	0.37*	0.20	0.28*	0.13	0.29*
mMRC	0.25*	0.22*	0.01	0.06	0.23*	0.33*
CAT	0.18*	0.24*	-0.15	-0.08	-0.09	0.05
SGRQ-c	0.24*	0.33*	-0.04	0.08	0.02	0.10
6MWD	-0.17*	-0.06	-0.02	-0.03	-0.25*	-0.16

\*Significant correlation between emphysema index (p<0.05).

COPD: chronic obstructive pulmonary disease; FEV<sub>1</sub>: forced expiratory volume in 1 second; DLco: diffusion capacity of carbon monoxide; RV/TLC: residual volume/total lung capacity; mMRC: modified Medical Research Council; CAT: COPD assessment test; SGRQ-c: St. George's Respiratory Questionnaire for COPD; 6MWD: 6-minute walking distance.