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Supplementary Materials

Vector Divergence of Computed Tomography Measures Pulmonary Function Impairment in Patients with Chronic Obstructive Lung Disease

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Included on the following pages are **Table S1** and **Table S2**.

Table S1. Pearson's correlation coefficients (r) between mean or median divergence and PFTs and QIs in each study group (*p < .05, **p < .01, ***p < .001).

	Normal		Emphysema		COPD		GOLD 1		GOLD 2		GOLD3&4	
PFT or QI	**mean**	**median**	**mean**	**median**	**mean**	**median**	**mean**	**median**	**mean**	**median**	**mean**	**median**
FEV1 [L]	0.559*	0.587*	0.466*	0.494**	0.438**	0.452**	0.526*	0.542*	0.305	0.334	0.717***	0.732***
FEV1 (%)	0.653*	0.667*	0.675***	0.680***	0.348*	0.372**	0.118	0.141	0.499**	0.544**	0.707***	0.724***
FVC [L]	0.543	0.574*	0.258	0.273	0.233	0.243	0.373	0.384	0.060	0.082	0.572**	0.581**
FVC (%)	0.545	0.570*	0.447*	0.447*	0.126	0.146	-0.114	-0.101	0.140	0.168	0.511**	0.517**
FEV1/ FVC	0.210	0.207	0.397*	0.419*	0.368*	0.374**	0.338	0.344	0.353	0.375	0.460*	0.469*
MLA (HU)	0.507**	0.505**	0.583***	0.576***	0.535***	0.536***	0.520***	0.519***	0.563***	0.571***	0.522***	0.523***
%LAA -950	-0.067	-0.063	-0.310*	-0.301*	-0.199	-0.200	-0.020	-0.029	-0.341*	-0.341*	-0.186	-0.187
Perc15 (HU)	0.454**	0.448**	0.534***	0.528***	0.499***	0.507***	0.449**	0.449**	0.502***	0.523***	0.506***	0.507***
% Nor-mal	0.465**	0.455**	0.473***	0.466**	0.482***	0.491***	0.389**	0.389**	0.493***	0.520***	0.425**	0.426**
%LAA -856	-0.465**	-0.455**	-0.473***	-0.466**	-0.482***	-0.491***	-0.389**	-0.389**	-0.493***	-0.520***	-0.425**	-0.426**
fSAD (%)	-0.469**	-0.459**	-0.491***	-0.484***	-0.501***	-0.511***	-0.427**	-0.425**	-0.483***	-0.511***	-0.449**	-0.451**

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Table S2. Spearman's rank correlation coefficients (R_S) of mean or median divergence with PFTs and QIs in each study group (*p < .05, **p < .01, ***p < .001).

	Normal		Emphysema		COPD		GOLD 1		GOLD 2		GOLD3&4	
PFT or QI	**mean**	**median**	**mean**	**median**	**mean**	**median**	**mean**	**median**	**mean**	**median**	**mean**	**median**
FEV1 [L]	0.587*	0.594*	0.628**	0.620**	0.454**	0.442**	0.463*	0.475*	0.279	0.291	0.766***	0.774***
FEV1 (%)	0.615*	0.643*	0.685***	0.682***	0.367*	0.384**	-0.066	-0.011	0.460*	0.530**	0.660***	0.659***
FVC [L]	0.573	0.594*	0.457*	0.466*	0.340*	0.327*	0.304	0.311	0.174	0.154	0.631**	0.636**
FVC (%)	0.469	0.524	0.405*	0.438*	0.135	0.158	-0.183	-0.135	0.086	0.102	0.402*	0.417*
FEV1/ FVC	0.098	0.126	0.498*	0.462*	0.367*	0.369*	0.313	0.313	0.265	0.324	0.462*	0.455*
MLA (HU)	0.525**	0.492**	0.607***	0.572***	0.576***	0.567***	0.543***	0.507***	0.568***	0.569***	0.579***	0.564***
%LAA-950	-0.412*	-0.400*	-0.512***	-0.479***	-0.474***	-0.480***	-0.405**	-0.389**	-0.439**	-0.455**	-0.535***	-0.538***
Perc15 (HU)	0.495**	0.465**	0.567***	0.531***	0.527***	0.533***	0.506***	0.471**	0.499***	0.514***	0.579***	0.570***
%Normal	0.587***	0.566***	0.619***	0.584***	0.602***	0.610***	0.575***	0.547***	0.558***	0.573***	0.654***	0.651***
%LAA-856	-0.587***	-0.566***	-0.619***	-0.584***	-0.602***	-0.610***	-0.575***	-0.547***	-0.558***	-0.573***	-0.654***	-0.651***
fSAD (%)	-0.587***	-0.564***	-0.626***	-0.591***	-0.609***	-0.619***	-0.579***	-0.550***	-0.558***	-0.574***	-0.657***	-0.654***

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