



Online Supplement 4: The percentage of subjects with different emphysema and airflow obstruction indices and $D_{LCO} < 2\text{ SD}$.
The subjects are divided into tertiles according to increasing r_{AiDA} values. For each variable, emphysema or outflow obstruction is considered either present or absent. The percentage of present findings per r_{AiDA} tertile are given.
 D_{LCO} = diffusing capacity for carbon monoxide, SD = standard deviation, RV -950 = percent of voxels with an attenuation value below -950 Hounsfield Units, FEV₁ = forced expiratory flow in one second, VC = vital capacity, LLN = lower limit of normal, r_{AiDA} = distal airspace radius measured using Airspace Dimension Assessment with nanoparticles