

Online Supplement 3 - Frequency table of rAiDA with a normal distribution curve

The AiDA values were approximately normally distributed. There was one female outlier value with  $r_{AiDA}$  of 516 mm. This person had moderate emphysema on CT with a visual emphysema score of 8 (of 18). She had COPD stage 2 according to spirometric GOLD-criteria (FEV<sub>1</sub>/VC < 0.7 and FEV<sub>1</sub> of 55% of predicted). She also had a  $D_{L,CO}$  of 49% of predicted. This person was an active smoker with a >52 pack year smoking history. She also reported experiencing dyspnoea, cough, wheezing and increased phlegm.