



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 ($FEV_1/VC < 0.7$ and FEV_1 of 55% of predicted). She also had a D_{LCO} 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.