

Study of Humidified Air to Improve Mucociliary Clearance (MCC) in COPD:

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Statistical Analysis Plan:

We will plot normalized retention vs. time and compare the percentage of deposited material cleared at $t=90$ min and up to 6 hours on the intervention days. Areas above the curve 90 min clearance curve will also be compared. We will calculate the central deposition percentage of the Tc-SC aerosol to ensure that Tc-SC aerosol delivery was similar on both testing days.

Statistical comparisons will be made using paired non-parametric statistics to compare the baseline clearance day to the Airvo clearance day (Wilcoxon Signed Rank).