

# Supplemental Files: Comparison of the Multiple-breath Washout and Forced Oscillation Technique as Markers of Bronchoconstriction

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## Comparison of outputs under a different constriction distribution

Within this study constrictions were applied to the airway tree using constriction percentages drawn from a normal distribution

$$c \sim N(\mu_{\text{con}}, 0.2\mu_{\text{con}}).$$

The standard deviation was chosen as  $0.2\mu_{\text{con}}$  to ensure a high degree of variability and noise in the constriction patterns. For completeness sake we provide  
5 a brief analysis of results using the constriction distribution

$$c \sim N(\mu_{\text{con}}, 0.1\mu_{\text{con}}).$$

In Fig A and B we give recreations of Fig. 3 and 4 from the manuscript. As can be seen, key behaviours are unchanged, although the magnitude of the outputs is slightly reduced. This suggests stability of the results, strengthening the  
10 conclusions drawn from the outputs.

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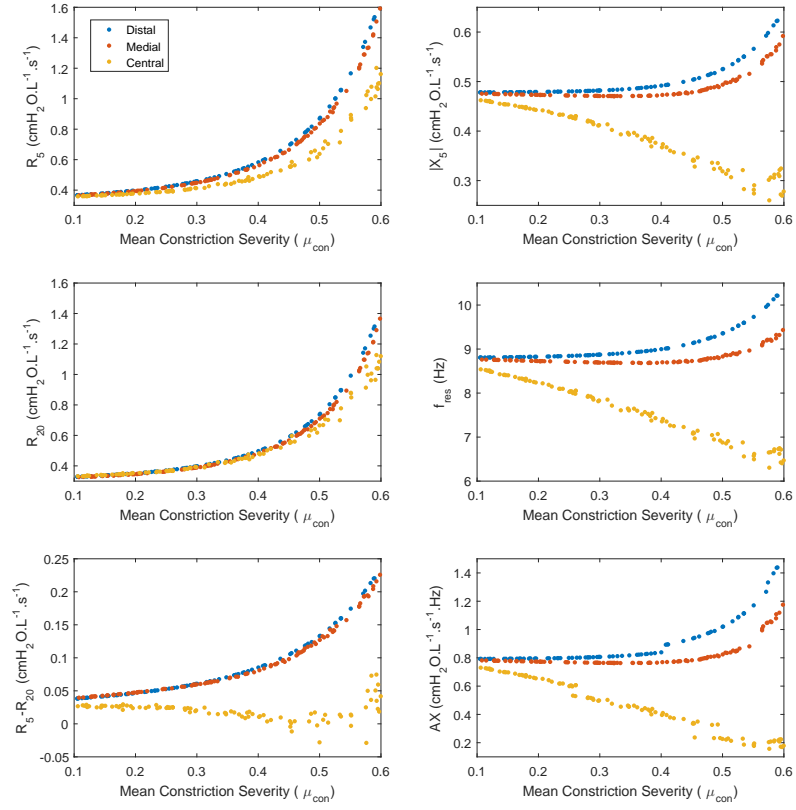


Figure A: A recreation of Fig. 2 from the article, with a lower standard deviation used in the constriction distribution. Key behaviour has not changed.

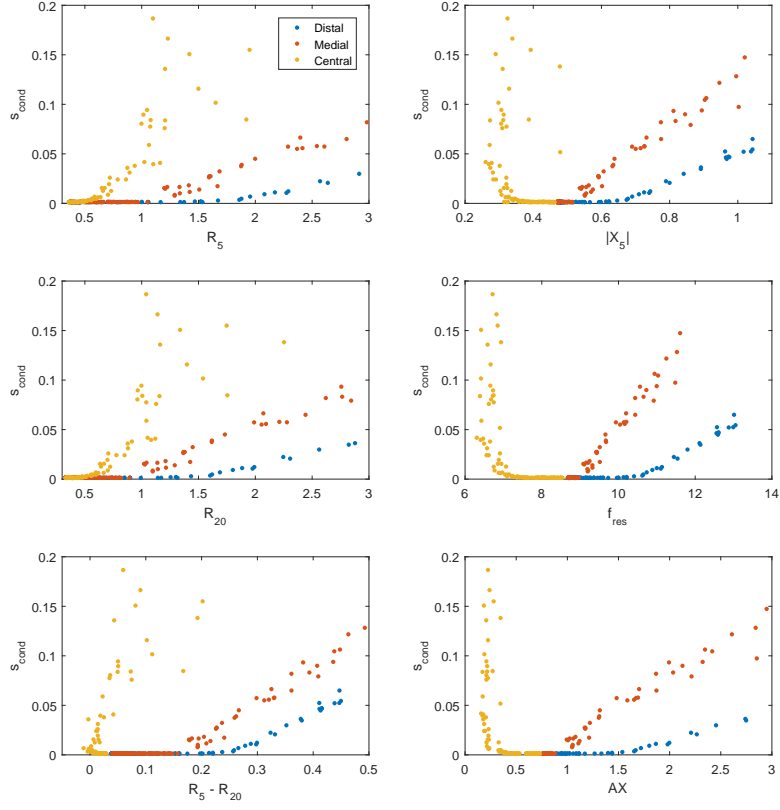


Figure B: A recreation of Fig. 4 from the article, with a lower standard deviation used in the constriction distribution. Key behaviour has not changed.