Author's response to reviews

Title: Age-dependent differences in lung ventilation impact influenza-induced tachypnea in the cotton rat

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Version: 2 Date: 3 December 2008

I would like to submit the enclosed manuscript entitled “Age-dependent differences in lung ventilation impact influenza-induced tachypnea in the cotton rat” by Elman L. Trias, Arash Hassantoufighi, Gregory A. Prince and Maryna C. Eichelberger, for publication in Pulmonary Medicine. We have used the cotton rat model of influenza to demonstrate decreasing lung elastance with age. The resultant difference in infant and adult lung mechanics is likely to explain the ventilatory differences in very young and adult cotton rats that are infected with influenza virus. Our findings support the use of the cotton rat model to evaluate antiviral, vaccine or mechanical treatment strategies for both pediatric and adult respiratory disease.

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This version is the original submission and not a revision.