

## **ONLINE SUPPLEMENT**

### Cine 1

Coronal views with volumetric reconstruction demonstrating expiratory upper airway dysfunction in a patient with asthma. Studies were performed using Toshiba Aquilion-One CT (Toshiba Medical Systems, Tokyo, Japan). Images were generated every 0.35 seconds over the duration of the respiratory cycle and movement was reconstructed using moving-image algorithms. Note evidence of severe laryngeal dysfunction during expiration rather than isolated vocal cord dysfunction.

### Cine 2

Axial views at vocal cord level of 320-slice dynamic CT in the same patient. Technical details are as for Cine 1.