**Supplementary Materials**

Efficacy of homemade face masks against human coughs: a focus on *penetration, atomization and aerosolization of cough droplets.*

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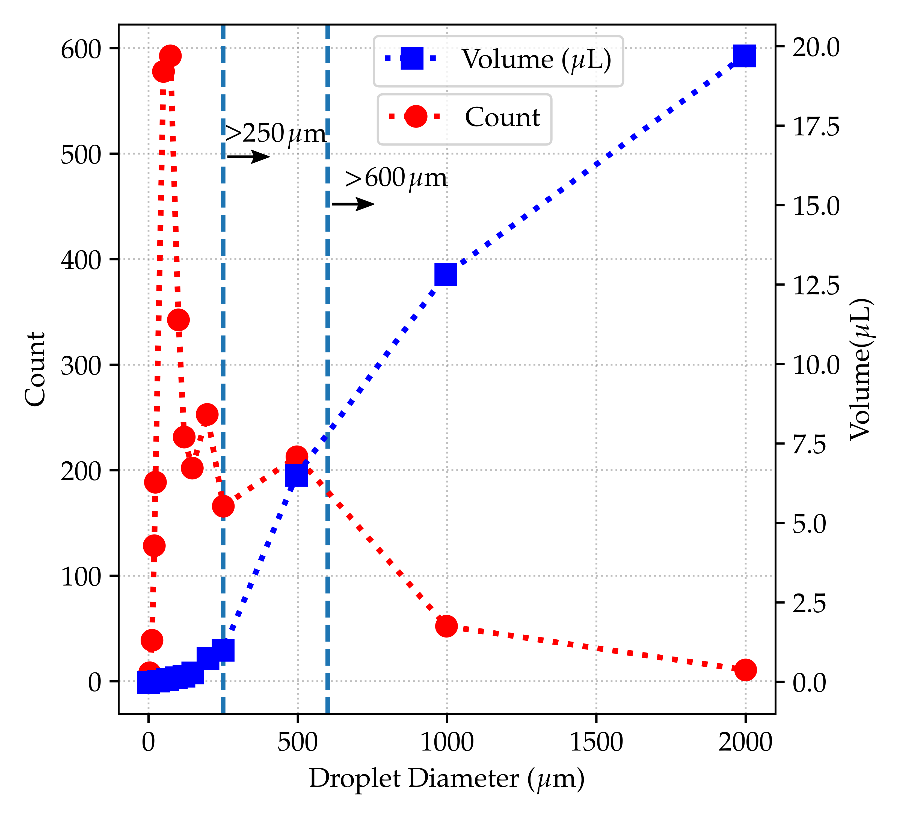
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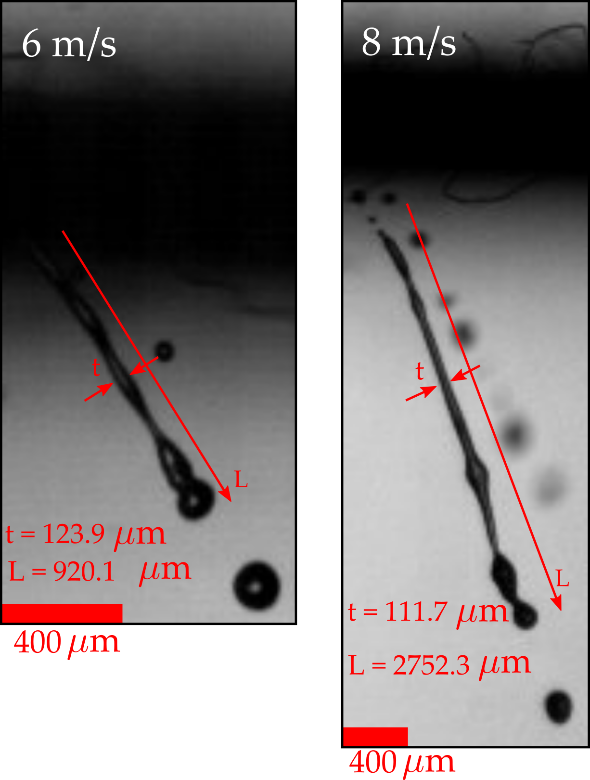
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Figs. S1-S3

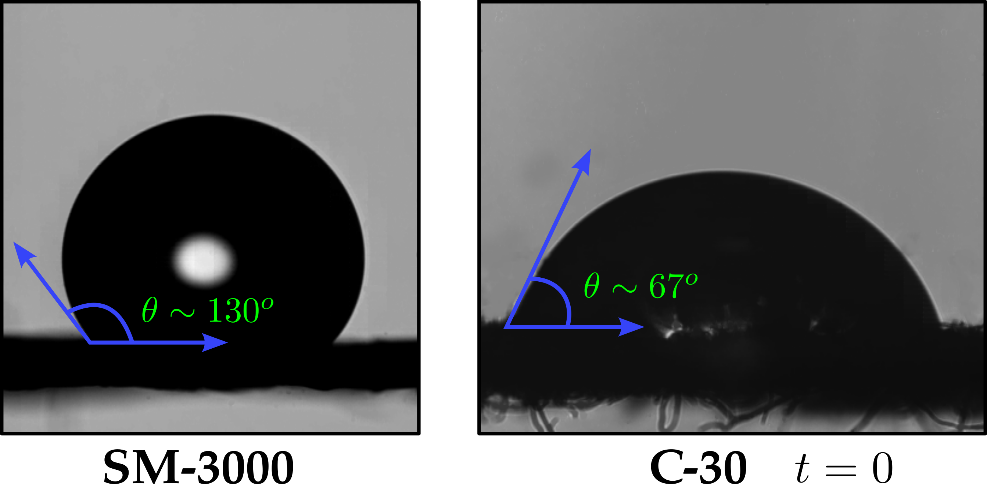
Movies-S1 & S2



**Fig. S1. Size and volume distribution of droplets expelled during coughing.** The size distribution is as given in Duguid (1946)1. Two vertical lines with arrows are used to indicate the sizes greater than 250 mm and 600 mm.



**Fig. S2. Stretching of ligament for C-55 sample.** The average length and thickness of ligaments shown for C-55 sample for impingement velocity of 6 m/s at 8 m/s just before the ligament breakup.

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**Fig. S3. Contact Angle:** The shadowgraphy images of the contact angle for SM-3000 and C-30 sample at *t*=0.

**References**

1. Duguid, J. P. The size and the duration of air-carriage of respiratory droplets and droplet-nuclei. *Journal of Hygiene* **44**, 471–479 (1946).