# Supplementary Online Content

**eTable 1.** Aerosolized Particle Spread During Suction and Nebulization
**eTable 2.** Particle Reduction With Tracheostomy Coverings Compared to Uncovered Tracheostomy

This supplementary material has been provided by the authors to give readers additional information about their work.

**eTable 1. Aerosolized Particle Spread During Suction and Nebulization**

| Experimental Condition | Mean ± SD Particle Concentration (*counts/m³*) |
|---|---|
| Suction | 7,300 ± 930* |
| Nebulization | 4,400 ± 350* |
| Nebulization with Surgical Mask | 410 ± 100* |
| Background Particle Measurement | 3,400 ± 780 |

SD=standard deviation

**\***denotes experimental particle concentration values which are calculated by subtracting the background particle concentration

**eTable 2. Particle Reduction With Tracheostomy Coverings Compared to Uncovered Tracheostomy**

| Tracheostomy Covering | Mean ± SD Particle Concentration (*counts/m³*)* | % particle concentration compared to uncovered tracheostomy |
|---|---|---|
| Uncovered Tracheostomy | 4,995 ± 7500 | 100% |
| Cotton Mask | 1,300 ± 70 | 26.2% |
| Polyester Gaiter | 1,000 ± 70 | 20.5% |
| Humidification Mask | 860 ± 70 | 17.2% |
| Surgical Mask | 860 ± 70 | 10.1% |
| HME | 450 ± 60 | 9.0% |
| HME + Surgical Mask | 100 ± 70 | 2.1% |

SD=standard deviation

HME= heat moisture exchanger
*denotes experimental particle concentration values which are calculated by subtracting the background particle concentration