

**Supplementary Table 2.** Comparison of large-sized particles around the airway of the CPR operator and that of room air

Particle size	No. of particles											
	Without CPR						With CPR					
	Room air		Respiratory barrier	P-value	Respiratory barrier with NPG	P-value	Room air		Respiratory barrier	P-value	Respiratory barrier with NPG	P-value
	t-test	Mann-Whitney U-test				t-test	Mann-Whitney U-test					
Total	19,664 (18,088–21,562)	21,125±3,245	25,263±3,766	0.017	25,106±3,109	0.010	19,664 (18,088–21562)	21,125±3,245	28,0526 (205,263–359,195)	0.001	27,722±1,239	<0.001
3 µm	30 (25–34)	30±7	46±13	0.004	32±12	0.724	30 (25–34)	30±7	134 (113–294)	0.001	37±8	0.075
5 µm	18 (12–23)	19±4	24.5 (18–29)	0.120	22 (16–36)	0.255	18 (12–23)	19±4	42 (33–60)	0.002	20 (17–27)	0.336
10 µm	8 (7–9)	9±4	6±4	0.131	10±6	0.718	8 (7–9)	9±4	11±5	0.324	7±3	0.214

Values are presented as median (interquartile range) or mean±standard deviation.

CPR, cardiopulmonary resuscitation; NPG, negative-pressure generator.