

**Table S1. Demographic characteristics of air sampling, acute symptom survey and extended questionnaire participants**

<b>Characteristic</b>	<b>Hospital Cleaning Staff (N=35)</b>
Age, years, median (range)	40 (20-67)
Tenure, years, median (range)	3.5 (0.21- 26.2)
Male, n (%)	15 (43%)
Race, n (%)	
White	11 (31%)
Black	17 (49%)
Asian	2 (6%)
Other†	4 (11%)
Unknown‡	1 (3%)
Smoking status, n (%)	
Current	8 (23%)
Former	2 (6%)
Never	25 (71%)
Notes: † Includes participants who indicated more than one race ‡ Participants who refused to indicate a race	

**Table S2. Odds Ratios<sup>§</sup> for Work-related Acute Symptoms Associated with 1 ppb Increase in Exposure to Acetic Acid, Hydrogen Peroxide, and Peracetic Acid in Post-shift Survey Participants (n=49)**

Symptom	Hydrogen Peroxide (95% CI)	Peracetic Acid (95% CI)	Acetic Acid (95% CI)
Burning, itchy, runny nose*	<b>1.02</b> <b>(1.01-1.04)</b>	<b>1.13</b> <b>(1.05-1.23)</b>	<b>1.02</b> <b>(1.01-1.03)</b>
Sneeze	1.00 (1.00-1.01)	1.02 (0.97-1.07)	1.01 (1.00-1.02)
Burning, itchy, watery eyes*	<b>1.01</b> <b>(1.00-1.02)</b>	<b>1.10</b> <b>(1.04-1.19)</b>	<b>1.03</b> <b>(1.01-1.05)</b>
Burning, dry, sore throat	1.00 (1.00-1.01)	1.04 (0.99-1.10)	1.01 (1.00-1.01)
Cough	1.00 (0.99-1.00)	1.05 (1.00-1.09)	1.00 (1.00-1.01)
Wheeze	1.01 (1.00-1.01)	1.00 (0.90-1.07)	1.00 (0.99-1.01)
Chest Tightness	1.00 (0.98-1.01)	1.05 (0.94-1.16)	1.00 (0.96-1.01)
Shortness of Breath	1.00 (0.99-1.01)	1.05 (0.97-1.15)	1.00 (0.97-1.01)
Difficulty Breathing	1.00 (0.97-1.01)	1.04 (0.94-1.15)	1.00 (0.97-1.01)
Dizziness	1.00 (0.98-1.01)	1.03 (0.95-1.12)	1.00 (0.97-1.01)

\*Exposures that were significantly associated with work-related acute symptoms at  $p \leq 0.05$  are noted in bold.

<sup>§</sup>Odds ratios were rounded to two decimal places.

**Table S3. Odds Ratios<sup>§</sup> for Symptoms Reported as Usually Occurring or in the Last 12 Months Associated with 1 ppb Increase in Exposure to Acetic Acid, Hydrogen Peroxide, and Peracetic Acid (n=35).**

<b>Condition</b>	<b>Hydrogen Peroxide (95% CI)</b>	<b>Peracetic Acid (95% CI)</b>	<b>Acetic Acid (95% CI)</b>
Nasal Problems, previous 12 months	1.01 (1.00-1.02)	1.07 (1.00-1.16)	1.00 (1.00-1.01)
Watery Eyes, previous 12 months	1.01 (1.00-1.02)	1.05 (0.99-1.14)	1.00 (1.00-1.01)
Usual Cough	1.01 (1.00-1.02)	0.88 (0.64-1.04)	1.00 (0.98-1.02)
Shortness of Breath on Level Ground	1.01 (1.00-1.02)	1.04 (0.97-1.11)	1.00 (0.99-1.01)
Wheeze, previous 12 months	1.01 (1.00-1.01)	1.00 (0.91-1.08)	1.00 (0.99-1.01)
Awaken from chest tightness, previous 12 months	1.00 (0.99-1.01)	0.99 (0.91-1.07)	1.00 (0.98-1.01)
Asthma Medication Use	1.01 (1.00-1.02)	1.01 (0.90-1.11)	1.00 (0.98-1.01)
Asthma-like Symptoms	1.00 (1.00-1.01)	0.99 (0.92-1.05)	1.00 (0.99-1.01)

<sup>§</sup>Odds ratios were rounded to two decimal places.