

**Supplemental Table 4: Breath VOCs in Healthy Controls and Normal Pouch Patients: Adjusted for Age and Gender**

<b>Factor</b>	<b>Healthy Controls (N=53)</b>	<b>Normal Pouch (N=7)</b>	<b>p-value</b>
<b>2-propanol</b>	43.0 (33.1, 55.8)	290.9 (146.6, 577.2)	<b>&lt;0.001</b>
<b>acetaldehyde</b>	26.1 (21.6, 31.6)	152.5 (92.6, 250.9)	<b>&lt;0.001</b>
<b>acetone</b>	159.1 (121.5, 208.5)	912.2 (449.6, 1850.5)	<b>&lt;0.001</b>
<b>acetonitrile*</b>	13.5 (10.8, 16.8)	17.1 (12.0, 24.2)	0.28
<b>acrylonitrile</b>	0.74 (0.66, 0.84)	0.82 (0.60, 1.1)	0.57
<b>benzene</b>	3.3 (2.5, 4.2)	10.9 (5.6, 21.5)	<b>0.002</b>
<b>carbon disulfide</b>	2.4 (2.0, 2.8)	9.1 (6.0, 13.8)	<b>&lt;0.001</b>
<b>dimethyl sulfide</b>	1.8 (1.5, 2.2)	26.0 (15.1, 44.8)	<b>&lt;0.001</b>
<b>ethanol</b>	54.4 (43.1, 68.6)	253.9 (138.0, 467.1)	<b>&lt;0.001</b>
<b>isoprene</b>	16.3 (13.0, 20.4)	124.1 (69.3, 222.3)	<b>&lt;0.001</b>
<b>pentane</b>	13.8 (11.8, 16.1)	77.9 (51.6, 117.6)	<b>&lt;0.001</b>
<b>1-decene</b>	6.7 (5.5, 8.2)	1.01 (0.61, 1.7)	<b>&lt;0.001</b>
<b>1-heptene</b>	10.9 (9.1, 13.2)	3.9 (2.4, 6.4)	<b>&lt;0.001</b>
<b>1-nonene</b>	4.9 (4.3, 5.6)	1.5 (1.10, 2.1)	<b>&lt;0.001</b>
<b>1-octene</b>	19.0 (16.0, 22.5)	4.2 (2.7, 6.5)	<b>&lt;0.001</b>
<b>3-methylhexane</b>	25.2 (21.5, 29.5)	60.4 (40.0, 91.4)	<b>&lt;0.001</b>
<b>(E)-2-nonene</b>	2.3 (1.9, 2.7)	1.3 (0.87, 2.0)	<b>0.022</b>
<b>ammonia</b>	61.4 (53.7, 70.2)	40.5 (28.5, 57.5)	<b>0.033</b>
<b>ethane</b>	75.9 (71.3, 80.9)	169.8 (143.9, 200.3)	<b>&lt;0.001</b>
<b>hydrogen sulfide</b>	0.41 (0.36, 0.47)	0.31 (0.22, 0.45)	0.18
<b>triethyl amine</b>	0.85 (0.75, 0.98)	0.83 (0.58, 1.2)	0.87
<b>trimethyl amine</b>	7.3 (5.9, 9.2)	28.7 (16.0, 51.6)	<b>&lt;0.001</b>

Values presented as Mean (95% CL) and were obtained using ANCOVA analysis. The logarithm of each VOC was modeled as the outcome variable with group, age and gender as the independent variables. VOC values are presented as parts per billion.

\*Acetonitrile measured in only 19 healthy controls