

**Supplementary Digital Content 2: Symptoms and severity of AOM by etiology.**

	<b>Spn</b> (n=276), % <sup>a</sup>	<b>NTHi</b> (n=292), %	<b>Hflu</b> <b>Encapsulated</b> (n=38), %	<b>Spyo</b> (n=36), %	<b>Mcat</b> (n=36), %
<b>OS-6</b>	28.3	27.1	57.9	5.6	30.6
<b>OS-7</b>	6.5	5.5	15.8	2.8	0.0
<b>Fever <math>\geq 37.5^{\circ}\text{C}</math></b>	34.1	27.1	26.3	33.3	11.1
<b>Fever <math>&gt; 39.0^{\circ}\text{C}</math></b>	9.1	6.8	0.0	8.3	2.8
<b>Ear pain</b>	80.4	78.8	76.3	66.7	88.9
<b>Conjunctivitis</b>	2.5	9.9	2.6	2.8	8.3
<b>Hearing loss</b>	5.8	9.2	10.5	25.0	2.8
<b>Lethargy</b>	9.1	7.9	0.0	19.4	5.6
<b>Irritability</b>	44.9	43.2	34.2	44.4	63.9
<b>Anorexia</b>	15.6	14.0	5.3	36.1	19.4
<b>Vomiting</b>	3.6	4.1	2.6	5.6	8.3
<b>Diarrhea</b>	1.8	3.4	2.6	0.0	0.0
<b>Ear tugging</b>	31.2	30.8	13.2	30.6	44.4
<b>Trouble sleeping</b>	20.7	25	15.8	38.9	25.0
<b>Ear Discharge</b>	17.8	18.8	18.4	72.2	5.6

Proportions presented here were not computed using GEE model. <sup>a</sup>% of all Spn cases with each symptom. %'s calculated similarly for each of the other pathogens.