

**Supplementary Data**

**Supplementary Table S1.** RT-PCR multiplex Assay details

<b>Viruses and Bacteria in; BIOFIRE® FILMARRAY® Pneumonia plus Panel Test</b>	
<b>Viruses</b>	<b>Bacteria (semi-quantitative)</b>
Influenza A	<i>Acinetobacter calcoaceticus-baumannii complex</i>
Influenza B	<i>Enterobacter cloacae</i>
Adenovirus	<i>Escherichia coli</i>
Human Coronaviruses (229E, -OC43, -NL63, and -HKU1)	<i>Haemophilus influenzae</i>
Parainfluenza virus	<i>Klebsiella aerogenes</i>
Respiratory Syncytial virus	<i>Klebsiella oxytoca</i>
Human Rhinovirus/Enterovirus	<i>Klebsiella pneumoniae group</i>
Human Metapneumovirus	<i>Moraxella catarrhalis</i>
Middle East Respiratory Syndrome Coronavirus (MERS-CoV)	<i>Proteus spp.</i>
<b>Atypical Bacteria (qualitative)</b>	<i>Pseudomonas aeruginosa</i>
<i>Legionella pneumophila</i>	<i>Serratia marcescens</i>
<i>Mycoplasma pneumoniae</i>	<i>Streptococcus aureus</i>
<i>Chlamydia pneumoniae</i>	<i>Streptococcus agalactiae</i>
	<i>Streptococcus pneumoniae</i>
	<i>Streptococcus pyogenes</i>

Supplementary Data for Figure 2. Raw Calculated **Index values** for All the tested sera

<b>Negative</b>	<b>Ambiguous</b>	<b>Positive</b>
3,376238	4,277228	6,237624
3,821782	5,009901	9,722772
0,930693	4,722772	6,722772
2,910891	4,574257	7,623762
3,920792	4,712871	6,009901
1,881188	4,920792	7,148515
2,465347	4,29703	7,643564
1,524752	5,910891	7,227723
3,376238	5,287129	7,549669
1,425743	4,980198	12,55445545
1,594059	5,435644	15,64356436
2,079208	4,435644	32,53465347
3,247525	5,445545	11,45544554
2,653465	5,262693	48,12871287
2,138614		4,12362
3,19802		
2,178218		
2,079208		
1,247525		
3,930693		

3,415842
3,90099
2,732673
3,287129
2,455446
2,861386
2,891089
3,118812
2,950495
1,811881
1,277228
2,861386
2,683168
2,564356
1,386139
3,455446
3,19802
1,613861
2,594059
2,148515
3,752475
3,376238
1,594059
1,633663
3,544554
3,722772
2,70297
2,138614
1,851485
1,851485
1,514851
3,643564
3,247525
1,316832
2,544554
1,594059
1,425743
5,831683
1,841584
2,306931
1,633663
1,821782
2,227723

1,584158
2,920792
3,311258
3,364238
3,320088
1,245033
3,682119
0,821192
2,401766
2,472406
0,997792
2,437086
1,501104

<b>Positive</b>
6,237624
9,722772
6,722772
7,623762
6,009901
7,148515
7,643564
7,227723
7,549669
12,55445545
15,64356436
32,53465347
11,45544554
48,12871287