

**TABLE S4 Fold rise after mock or 2-Ads among A(H1N1)pdm09 and A(H3N2) infection cases with MFI seroconversion to novel subtype influenza viruses. Color scale indicates fold rise levels.**

Case ID-treatment	Infected by	H2.Jap.57 G	H5.VN.04 G	H5.Ind.05 E	H5.Ind.05 G	H7.NED.03 G	H7.SH.13 G	H7.NY.16 E	H9.HK.09 G	H13.DE.04 G	Color scale
A-Mock	A(H1N1)pdm09	1.26	0.28	<b>5.22</b>	1.54	1.72	1.38	<b>2.96</b>	0.50	0.36	0.1
A-2-Ads	A(H1N1)pdm09	1.05	0.24	<b>4.77</b>	0.30	0.11	0.16	1.03	0.40	0.30	0.2
B-Mock	A(H3N2)	1.37	1.03	1.18	0.21	0.20	0.34	0.84	<b>4.42</b>	0.08	0.5
B-2-Ads	A(H3N2)	1.17	0.17	0.25	0.10	0.07	0.11	0.26	0.75	0.06	1.0
C-Mock	A(H3N2)	1.37	<b>2.39</b>	1.14	1.75	1.20	1.66	1.52	<b>2.41</b>	0.15	<b>2.0</b>
C-2-Ads	A(H3N2)	1.08	0.67	1.57	0.22	0.07	0.16	1.01	0.60	0.08	<b>4.0</b>
D-Mock	A(H3N2)	<b>2.13</b>	1.03	1.90	<b>2.79</b>	0.93	1.46	1.36	1.01	0.17	<b>5.0</b>
D-2-Ads	A(H3N2)	1.28	0.44	0.52	1.10	0.14	0.19	0.69	0.92	0.10	<b>6.0</b>

Fold rises in MFIs > 2-fold were highlighted in bold.

Cross reactive antibody responses to novel subtype HAs in three out of four patients were induced by exposures to A(H1N1)pdm09 (A/California/07/2009) and/or A/Perth/16/2009 like HAs.