

Supplementary Table S4 - Monthly amino acid mutation statistics of 147 Taiwanese H1N1pdm viruses in HA antigenic sites, receptor binding sites, and NA antigenic sites.

(In each table, row #1 and #2 are the amino acids of A/California/04/2009, and column #2 lists the monthly virus counts.)

(1) HA amino acid substitutions in antigenic site Sa																
		141	142		170	171	172	173	174		176	177	178	179	180	182
CA2009		P	N	–	K	K	G	N	S	–	P	K	L	S	K	S
Jun 2009	13															
Jul	5															
Aug	7	S(1)														
Sept	14															
Oct	9															
Nov	8															
Dec	9															
Jan 2010	8										T(1)					
Feb	2															
May	2		D(1)													
Aug	6		D(3)													
Sept	5		D(3)							S(2)				T(1)		
Oct	7		D(2)				E(1)									
Nov	6		D(5)													
Dec	8		D(2)													
Jan 2011	18		D(2), S(1)													
Feb	20						T(1)									

(2) HA amino acid substitutions in antigenic site Sb													
		201	202	203	204	205	206	207	208	209	210	211	212
CA2009		T	S	A	D	Q	Q	S	L	Y	Q	N	A
Jun 2009	13												
Jul	5												
Aug	7												
Sept	14												
Oct	9												
Nov	8												
Dec	9												
Jan 2010	8		T(1)									V(1)	
Feb	2												
May	2												
Aug	6												
Sept	5												
Oct	7		T(3)						I(1)				
Nov	6		T(1)										
Dec	8		T(5)										
Jan 2011	18		T(13)						I(1)				
Feb	20	N(1)	T(13)										

(3) HA amino acid substitutions in antigenic site Ca																								
		154	155	156	157	158	159		183	184	185	186	187		220	221	222		238	239		252	253	254
CA2009		P	H	A	G	A	K	–	I	N	D	K	G	–	S	S	R	–	R	D	–	E	P	G
Jun 2009	13														T(12)									
Jul	5		Y(1)												T(5)									
Aug	7														T(6)		K(1)							
Sept	14														T(14)					E(1)				
Oct	9								F(1)						T(8)									

(6) NA amino acid substitutions in antigenic sites - part 1

[illegible]

(6) NA amino acid substitutions in antigenic sites - part 2

[illegible]

(6) NA amino acid substitutions in antigenic sites - part 3

[illegible]

[illegible][illegible][illegible][illegible]

[illegible]