**Table S5**. Contingency table for phylogenetic HA Clade independence (short lag).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 2nd infection | | | | |
| 1st infection | H1 Clade | H3 Clade | H7 Clade | H9 Clade | H11 Clade |
| H1 Clade | 12 | 14 | 2 | 1 | 1 |
| H3 Clade | 14 | 12 | 1 | 1 | 5 |
| H7 Clade | 2 | 2 | 2 | 2 | 0 |
| H9 Clade | 1 | 1 | 0 | 0 | 0 |
| H11 Clade | 3 | 5 | 0 | 1 | 2 |