

Supplementary Table S4: Frequency of exacerbation events within Markov chain model

Type of Exacerbation Transition	Average Days Between Events	Standard Deviation
Bacterial to Bacterial	71.0	55.50
Bacterial to non-Bacterial	49.1	33.46
non-Bacterial to Bacterial	81.0	67.63
non-Bacterial to non-Bacterial	59.2	48.28
Viral to Viral	68.7	53.83
Viral to non-Viral	74.9	57.99
non-Viral to Viral	60.3	52.70
non-Viral to non-Viral	68.0	48.88
Eosinophilic to Eosinophilic	56.2	59.00
Eosinophilic to non-Eosinophilic	52.4	41.81
non-Eosinophilic to Eosinophilic	50.8	35.37
non-Eosinophilic to non-Eosinophilic	72.7	57.47

ANOVA p-value
0.07
0.23
0.51