

Supplementary Table S1. Pair-wise comparisons of the first (A) and the second (B) exacerbations among the four clusters (A)

Cluster	1		2		3		4	
	Chi-squared	Sig.	Chi-squared	Sig.	Chi-squared	Sig.	Chi-squared	Sig.
Log rank (Mantel-Cox)	1		2.538	.111	17.569	.000	1.339	.247
	2	2.538	.111		3.038	.081	1.159	.282
	3	17.569	.000	3.038	.081		12.664	.000
	4	1.339	.247	1.159	.282	12.664	.000	

(B)

Cluster	1		2		3		4	
	Chi-squared	Sig.	Chi-squared	Sig.	Chi-squared	Sig.	Chi-squared	Sig.
Log rank (Mantel-Cox)	1		3.826	.050	7.568	.006	0.282	.595
	2	3.826	.050		0.001	.974	2.336	.126
	3	7.568	.006	0.001	.974		4.602	.032
	4	0.282	.595	2.336	.126	4.602	.032	