

**Supplementary Table S1. Stability and Bayesian information criterion (BIC) values for different numbers of groups**

Number of groups	Stability	BIC
1	1	N/A
2	0.98 (0.04)	-11428
3	0.96 (0.03)	-11120
4	0.89 (0.04)	-10948
5	0.67 (0.18)	-10872
6	0.67 (0.15)	-10776
7	0.66 (0.06)	-10752

Stability and BIC-values of disease activity trajectory groups for different choices of the numbers of groups. The stability is measured as the estimated probability that two patients that are in the same group when all data is used are still in the same group when the groups are regenerated after 10% of patients are removed. The estimates are obtained by repeatedly and randomly removing 10% of patients before applying the traj-package in the STATA software. The standard deviation over the repeated experiments is presented in brackets. The BIC-values are obtained from the traj software using all patients.