

Table S1. Model validation.

Trajectory	AvePP	OCC	$ \pi-P $	Group membership	Probability
1	0.87841	30.03026216	0	0.1939185	0.1939185
2	0.91968	8.64647236	0	0.569756	0.569756
3	0.82483	15.21607579	0	0.2363254	0.2363254

AvePP: average posterior probability; OCC: odds of correct classification.

Table S2. Bayesian Criteria Calculation and Group Membership.

Number of groups in trajectory modelling	BIC (All data points)	BIC (Number of subjects)	AIC	Log(2* Δ BIC)	Group membership probabilities
2	-35,701.08	-35,692.39	-35668	-	70.08%
					29.92%
3	-35,549.3	-35,535.63	-35486.31	2.49626525	19.39%
					56.98%
					23.63%
4	-35,151.51	-35,132.87	-35080.61	2.906076328	3.15%
					33.25%
					39.48%
					24.13%
5	-34,996.21	-34,972.6	-34906.41	2.505882233	1.32%
					29.87%
					54.67%
					3.14%
					10.99%

AIC: Akaike information criterion; BIC: Bayesian information criterion; Log(2* Δ BIC): logged Bayes Factor.