

Table S2. Perplexity values for the LDA models and AIC values for LCA

Class	AIC
2	413467
3	408433
4	406164
5	404638
6	404039
7	403444
8	403040
Topic	Perplexity
2	28.1
3	30.42
4	32.48
5	34.42
6	35.98
7	37.39
8	38.51

LDA: latent Dirichlet allocation, AIC: Akaike information criterion, LCA: latent class analysis.

Table S3. Symptom distributions for the latent Dirichlet allocation models

Class	Primary symptoms and probabilities				
2	Tearful 0.11	Paranoia 0.10	Mood instability 0.09	Agitation 0.08	Hallucination 0.07
	Hopelessness 0.11	Suicidal ideation 0.10	Poor concentration 0.10	Low energy 0.09	Tearful 0.09
3	Paranoia 0.10	Hallucination 0.09	Agitation 0.09	Tearful 0.08	Aggression 0.07
	Hopelessness 0.19	Suicidal ideation 0.12	Tearful 0.11	Guilt 0.09	Worthlessness 0.08
	Poor concentration 0.12	Low energy 0.11	Tearful 0.10	Poor motivation 0.10	Mood instability 0.10
4	Paranoia 0.12	Hallucination 0.11	Agitation 0.08	Poor insight 0.08	Delusion 0.07
	Hopelessness 0.23	Suicidal ideation 0.10	Worthlessness 0.10	Tearful 0.09	Helplessness 0.08
	Low energy 0.18	Poor motivation 0.18	Poor concentration 0.11	Anhedonia 0.10	Mood instability 0.08
	Tearful 0.22	Poor concentration 0.11	Guilt 0.09	Irritability 0.08	Mood instability 0.08
5	Hallucination 0.12	Paranoia 0.11	Delusion 0.08	Agitation 0.07	Poor insight 0.07
	Hopelessness 0.21	Worthlessness 0.10	Suicidal ideation 0.10	Helplessness 0.09	Tearful 0.08
	Low energy 0.19	Poor motivation 0.17	Poor concentration 0.11	Anhedonia 0.09	Tearful 0.08
	Insomnia 0.16	Agitation 0.13	Aggression 0.11	Tearful 0.08	Mood instability 0.06
	Tearful 0.23	Poor concentration 0.14	Guilt 0.13	Irritability 0.10	Mood instability 0.10