

Additional file 5

Table 1. Statistical characteristics for identified patient subgroup models

Approach	Sub-groups	Size of smallest subgroup, N (%)	BIC _{LL}	% change of BIC _{LL}	Frequency of presented BIC	Log-likelihood	Parameters
Single-stage LCA	1	928 (100)	177996.0		10/10	-88294.2	206
	2	<i>276 (29.7)</i>	<i>172314.1</i>	<i>3.19</i>	<i>10/10</i>	<i>-84992.0</i>	<i>341</i>
	3	163 (17.6)	170843.3	0.85	10/10	-83795.4	476
	4	150 (16.1)	170390.4	0.27	3/10	-83107.7	611
	<u>5</u>	<u>152 (16.4)</u>	<u>170116.5</u>	<u>0.16</u>	<u>3/10</u>	<u>-82509.5</u>	<u>746</u>
	6	123 (13.3)	170193.0	-0.04	3/10	-82086.5	881
	7	77 (8.3)	170287.8	-0.06	1/10	-81672.7	1016
	8	73 (7.9)	170539.9	-0.15	1/10	-81337.5	1151
	9	55 (6.0)	170919.8	-0.22	1/10	-81066.3	1286
Two-stage LCA (second stage)	1	928 (100)	20279,3		10/10	-10016,7	36
	<u>2</u>	<u>(47.8)</u>	<u>19892,4</u>	<u>1,91</u>	<u>10/10</u>	<u>-9696,8</u>	<u>73</u>
	3	(17.0)	19947,0	-0,27	8/10	-9597,7	110
	4	(12.7)	20051,9	-0,53	9/10	-9523,7	147
	5	(11.0)	20181,8	-0,65	3/10	-9462,2	184
	6	(6.5)	20344,8	-0,81	2/10	-9417,3	221
	7	(6.4)	20517,9	-0,85	1/10	-9377,5	258
	8	(6.3)	20689,7	-0,84	1/10	-9337,0	295
	9	(5.0)	20875,4	-0,90	1/10	-9303,4	332
	10	(4.8)	21055,5	-0,86	1/10	-9267,1	369
	11	(2.1)	21240,8	-0,88	1/10	-9233,3	406

BIC = Bayesian Information Criterion. %-change of BIC: A positive change represents a reduction of BIC

Italics: Selected starting model improving BIC by at least 1%

Bold: Preferred subgroup model

Underline: Best model if based only on lowest BIC

Shown are results of model sizes up to preferred model plus two. Additional results are available on request from the first author