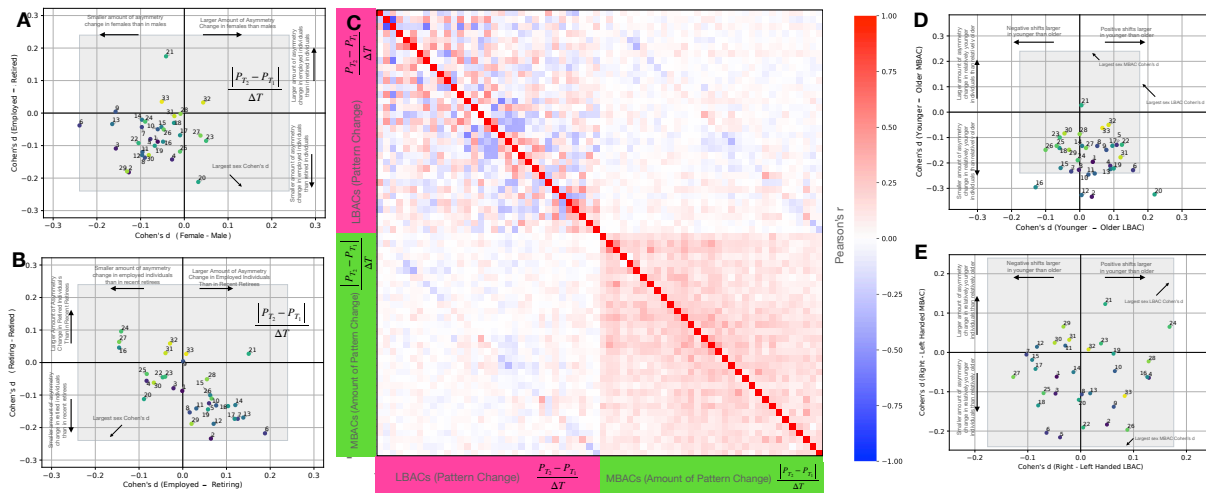
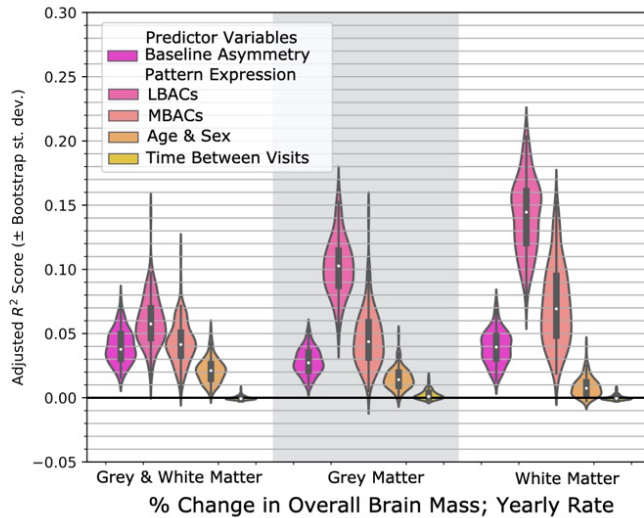


Supplementary Online Material



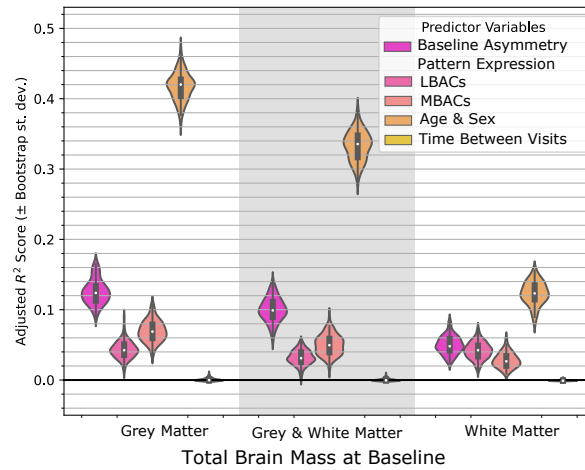
Supplementary Figure 1:

Amount of longitudinal structural brain asymmetry change in individuals reflect age, sex, and employment status. (A) and (B) Cohen's d effect size of MBACs between sex or employment contrasts. Three employment Cohen's d contrasts were conducted per asymmetry pattern, comparing participants who were in full-time employment at both time points (employed), in retirement at both time points (retired) or transitioned from full-time employment at first imaging visit and retired at second imaging visit (retiring). Grey rectangle indicates single largest absolute Cohen's d for sex-contrast (pattern 6, $|d|=0.240$). Retirement status displayed smaller effect sizes on how much brain asymmetry progresses (MBACs) than how brain asymmetry progresses (LBACs). Conversely, sex displayed larger effect sizes on how much brain asymmetry progresses (MBACs) than how brain asymmetry progresses (LBACs). (C) Pearson's correlation coefficient between complementary approaches to structural brain asymmetry. Amounts of asymmetry change (MBACs), capturing the magnitude but not preferred direction of structural asymmetry changes, are weakly correlated to asymmetry changes (LBACs). (D) Cohen's d effect size of LBACs and MBACs between relatively older participants (top 25th age percentile) and relatively younger participants (bottom 25th age percentile) at baseline. Grey rectangle indicates single largest absolute Cohen's d for sex-contrast in LBACs (pattern 21, $|d|=0.176$) and MBACs (pattern 6, $|d|=0.240$). Relatively older individuals undergo large magnitude of brain asymmetry changes than relatively younger individuals (younger – older Cohen's $d < 0$). (E) Cohen's d effect size of LBACs and MBACs between right-handed ($n=1,271$) and left-handed ($n=131$) individuals. Left-handedness tended to be associated with larger amounts of asymmetry change (MBACs) (right-handed – left-handed Cohen's $d < 0$ in 24 pattern MBACs). Grey rectangle indicates single largest absolute Cohen's d for sex-contrast in LBACs (pattern 21, $|d|=0.176$) and MBACs (pattern 6, $|d|=0.240$). Source data are provided as a Source Data file.



Supplementary Figure 2:

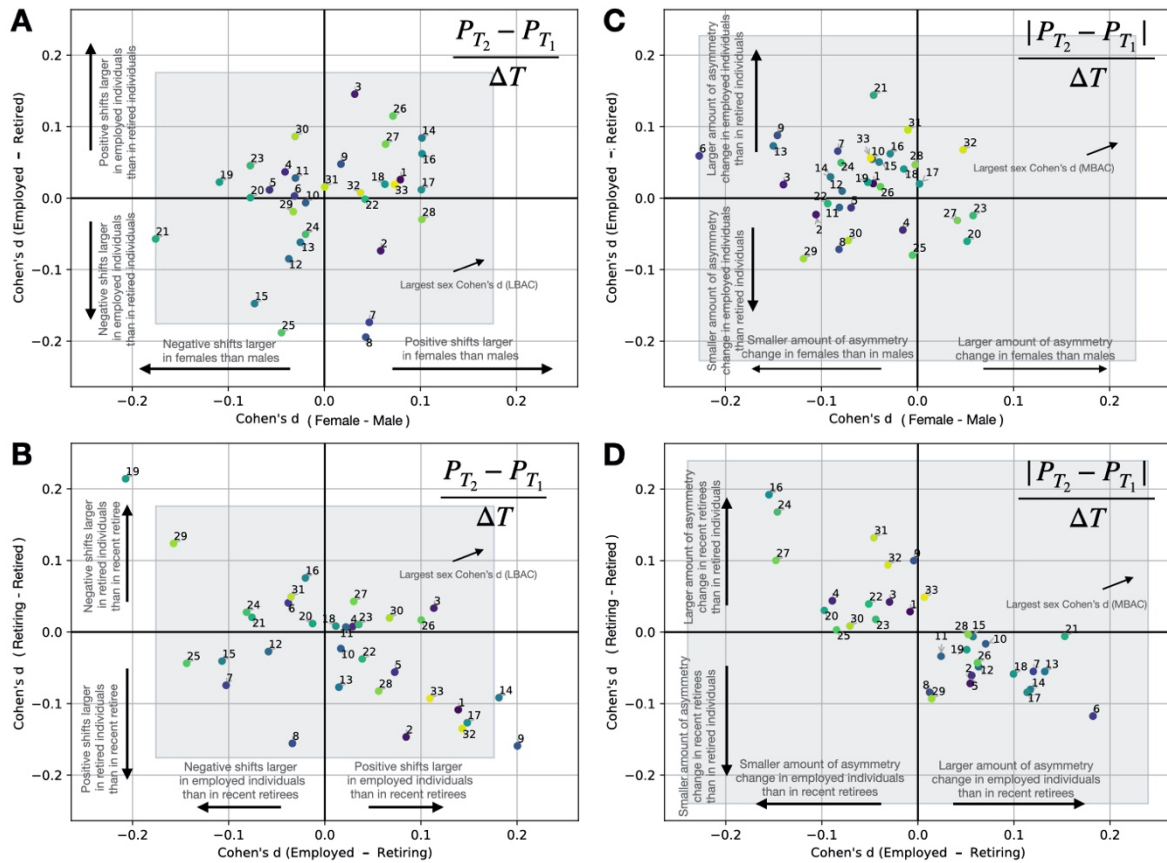
Overall brain volume change is better captured by changes in brain asymmetry than age and sex. Coefficient of determination (R^2) distribution across 100 bootstrap iterations from L2 penalized linear regression models predicting yearly rate of change in (i) both white and grey matter volume or (ii) total grey matter volume, or (iii) white matter volume on the basis of asymmetry phenotypes or non-brain phenotypes. Predictor variables are indicated in the legend. No models contain age or sex information unless otherwise specified. All asymmetry models contained information about 33 distinct asymmetry patterns. R^2 scores were adjusted for number of parameters in each model. Source data are provided as a Source Data file.



Supplementary Figure 3:

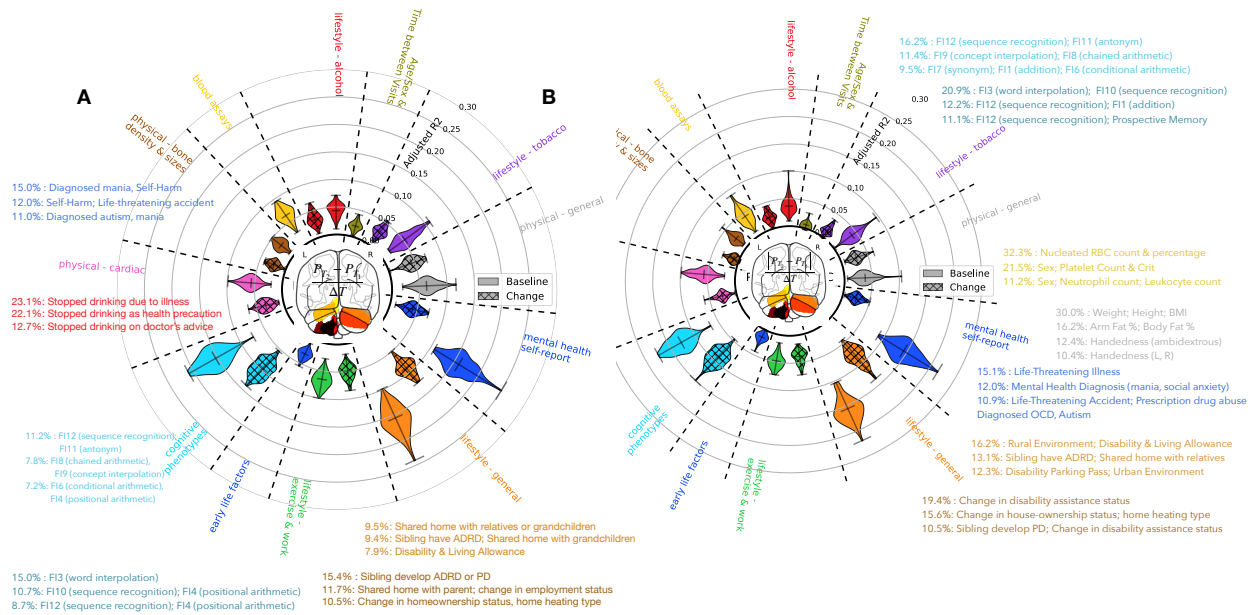
Overall brain volume reflects age and sex.

Coefficient of determination (R^2) distribution across 100 bootstrap iterations from L2 penalized linear regression models predicting volume of in (i) total grey matter or (ii) both white and grey matter, or (iii) total grey matter on the basis of asymmetry phenotypes or non-brain phenotypes. Predictor variables are indicated in the legend. No models contain age or sex information unless otherwise specified. All asymmetry models contained information about 33 distinct asymmetry patterns. R^2 scores were adjusted for number of parameters in each model. Baseline asymmetry better reflected total brain volume than changes in brain asymmetry. Of examined predictor variables, age and sex most strongly reflect total brain volume. Source data are provided as a Source Data file.



Supplementary Figure 4:

Measures of longitudinal structural brain asymmetry change in individuals reflect sex, and employment status independent of age. (A) and (B) Cohen's d effect size of LBACs between sex or employment contrasts with age-correction on longitudinal brain asymmetry changes (LBACs). (C) and (D) Cohen's d effect size of MBACs between sex or employment contrasts with age-correction on magnitude of brain asymmetry changes (MBACs). Three employment Cohen's d contrasts and one sex contrast were conducted per asymmetry pattern for both LBACs and MBACS. Employment contrasts compared participants who were in full-time employment at both time points (employed), in retirement at both time points (retired) or transitioned from full-time employment at first imaging visit and retired at second imaging visit (retiring). Age at baseline visit was regressed out of asymmetry change measures (MBACs/LBACs) prior to calculating effect size. Grey rectangle indicates single largest absolute Cohen's d for sex-contrast in each respective measure of brain asymmetry (LBAC pattern 21, $|d|=0.176$; MBAC pattern 6, $|d|=0.227$). Age correction of measures of brain asymmetry (MBACs/LBACs) retained the key observation that employment status reflects how brain asymmetry progresses (LBACs) more strongly than sex. Sex continued to display larger effect sizes on how much brain asymmetry progresses (MBACs) than how brain asymmetry progresses (LBACs). Correcting for age group differences in employment groups most strongly impacted contrasts involving MBACs of retired individuals. With age correction, the trend of greater magnitudes of asymmetry pattern change (MBAC) in retired individuals as compared to either employed individuals or recent retirees was reduced. Source data are provided as a Source Data file.



Supplementary Figure 5:

Amount of brain asymmetry changes and overall brain asymmetry changes have unique and complementary linked behavioural phenotypes. Coefficient of determination (R^2) of L2 penalized linear regression models across 100 bootstrap replicates predicting pattern 6 (A) longitudinal symmetry change (LBAC) and (B) magnitude of asymmetry change (MBAC) on the basis of age, sex, and within behavioural phenotypes within a given domain. Separate models were fit for each statistically defensible asymmetry pattern, with all models additionally containing sex, age at first imaging visit, and time between visits information. R^2 scores were adjusted for number of parameters in the models. Mean adjusted R^2 scores across 100 bootstrap replicates are indicated in violin chart. Principle component analysis was applied to model coefficients within a domain across all 33 asymmetry patterns. Top set of phenotypic contributors (text) within top principal components reveal consistently relevant phenotypes (light text) and behavioural changes (dark text) which track multiple sets of brain asymmetry changes. Rural versus urban divide emerged as consistently relevant for assessing how much brain asymmetry progressed. Social home environment was consistently relevant for assessing how brain asymmetry progression occurred. Source data are provided as a Source Data file.

Supplementary Table 1:

Top 3 largest absolute feature contributions of asymmetry pattern change. These top features represent a snapshot of the general composition of the asymmetry pattern, with no comment on the relative directionality of asymmetry they describe (for example, whether brain features display size imbalances towards ipsi- or contralateral hemispheres in relation to each other). Additionally, these top 3 features are a subset of the 85 total brain features, spanning cortical, subcortical, white matter and cerebellar structures, which together describe a given asymmetry pattern. Values in 'Direction' column indicates whether asymmetry shifts towards (positive) or away from (negative) the archetypical asymmetry pattern (as described in the work by Saltoun and colleagues, 2023) is associated with a left cortex which shrinks faster than the right cortex. See for full description of construction of asymmetry patterns. Complete visualizations of all 85 brain features within a pattern are available at https://github.com/ksaltoun/Dissociable_Asymmetry_Patterns. Source data are provided as a Source Data file.

Pattern #	Contribution 1	Contribution 2	Contribution 3	Direction
Pattern 1	Temporal Pole	Occipital Pole	I-IV Cerebellum	-1
Pattern 2	VI Cerebellum	Planum Temporale	VIIb Cerebellum	1
Pattern 3	Planum Temporale	Superior Temporal Gyrus, posterior division	Heschl's Gyrus (includes H1 and H2)	1
Pattern 4	Frontal Operculum Cortex	Inferior Frontal Gyrus, pars triangularis	Central Opercular Cortex	1
Pattern 5	I-IV Cerebellum	Hippocampus	VIIIb Cerebellum	-1
Pattern 6	VIIIb Cerebellum	VIIIa Cerebellum	IX Cerebellum	1
Pattern 7	Cingulate Gyrus, anterior division	Superior Frontal Gyrus	FA superior corona radiata	1
Pattern 8	Inferior Temporal Gyrus, posterior division	Temporal Fusiform Cortex, posterior division	Middle Temporal Gyrus, posterior division	-1
Pattern 9	V Cerebellum	Occipital Fusiform Gyrus	Temporal Occipital Fusiform Cortex	1
Pattern 10	Supramarginal Gyrus, posterior division	Planum Polare	Lateral Occipital Cortex, superior division	-1
Pattern 11	Putamen	Crus II Cerebellum	FA posterior thalamic radiation	-1
Pattern 12	Lingual Gyrus	Superior Frontal Gyrus	Cingulate Gyrus, anterior division	1
Pattern 13	Postcentral Gyrus	Middle Temporal Gyrus, posterior division	Supramarginal Gyrus, anterior division	-1
Pattern 14	Frontal Pole	FA medial lemniscus	Supracalcarine Cortex	-1
Pattern 15	Angular Gyrus	Postcentral Gyrus	Subcallosal Cortex	-1
Pattern 16	VIIb Cerebellum	Crus II Cerebellum	FA medial lemniscus	1
Pattern 17	Temporal Occipital Fusiform Cortex	VIIb Cerebellum	Inferior Temporal Gyrus, anterior division	-1

Pattern 18	Inferior Temporal Gyrus, division	Parietal Operculum Cortex	Temporal Fusiform Cortex, anterior division	1
Pattern 19	FA posterior thalamic radiation	FA tapetum	Parahippocampal Gyrus, anterior division	1
Pattern 20	Superior Parietal Lobule	Lateral Occipital Cortex, superior division	Central Opercular Cortex	-1
Pattern 21	Middle Frontal Gyrus	FA medial lemniscus	Paracingulate Gyrus	1
Pattern 22	Inferior Temporal Gyrus, temporooccipital part	Frontal Pole	Insular Cortex	-1
Pattern 23	FA cingulum cingulate gyrus	Temporal Fusiform Cortex, anterior division	Parahippocampal Gyrus, anterior division	-1
Pattern 24	Middle Frontal Gyrus	Paracingulate Gyrus	FA tapetum	-1
Pattern 25	FA cerebral peduncle	FA posterior limb of internal capsule	FA superior corona radiata	1
Pattern 26	V Cerebellum	VI Cerebellum	Temporal Occipital Fusiform Cortex	-1
Pattern 27	Inferior Temporal Gyrus, temporooccipital part	FA cingulum cingulate gyrus	Cingulate Gyrus, posterior division	-1
Pattern 28	Frontal Orbital Cortex	FA tapetum	Caudate	1
Pattern 29	Precentral Gyrus	Superior Parietal Lobule	FA superior fronto-occipital fasciculus	1
Pattern 30	FA superior cerebellar peduncle	Heschl's Gyrus (includes H1 and H2)	Amygdala	1
Pattern 31	FA uncinate fasciculus	Temporal Fusiform Cortex, anterior division	FA cingulum cingulate gyrus	-1
Pattern 32	Frontal Medial Cortex	Insular Cortex	Inferior Temporal Gyrus, temporooccipital part	-1
Pattern 33	Frontal Medial Cortex	Intracalcarine Cortex	Precuneous Cortex	1

Supplementary Table 2:

Adjusted coefficient of determination of a linear regression assessing structural brain asymmetry changes (LBACs) on the basis of age, sex, time between visits and phenotypes from one domain of behaviour or behavioural change. Confidence interval (2.5%/97.5%) determined with bootstrapping. Coefficient of determination (R2) was adjusted to account for different numbers of regressors in each model. Source data are provided as a Source Data file.

	age_sex_wait_only	blood	cognitive	early_life	alcohol	exercise	lifestyle_general
Pattern 1_LBAC_Mean	0.017861102	0.06075034	0.12594965	0.02874812	0.03687713	0.04966079	0.161360674
Pattern 1_LBAC_Upper97.5	0.03183535	0.0865805	0.17683002	0.04859473	0.06300806	0.07676382	0.207610604
Pattern 1_LBAC_Lower2.5	0.007353598	0.03518645	0.08225719	0.01025913	0.01209383	0.02196353	0.105312307
Pattern 2_LBAC_Mean	0.026162716	0.06074708	0.10878986	0.03543235	0.05927335	0.05853462	0.176616238
Pattern 2_LBAC_Upper97.5	0.042223169	0.08766335	0.1586634	0.05555754	0.08981922	0.0875982	0.224634448
Pattern 2_LBAC_Lower2.5	0.011687326	0.03521038	0.06686672	0.01628558	0.03741608	0.02912841	0.127625796
Pattern 3_LBAC_Mean	0.021503016	0.06949128	0.1342235	0.02705643	0.05340835	0.07306404	0.172092421
Pattern 3_LBAC_Upper97.5	0.035262748	0.10081929	0.19033831	0.04690597	0.08077467	0.10611278	0.216803437
Pattern 3_LBAC_Lower2.5	0.006465174	0.04289894	0.09194726	0.00837826	0.02546461	0.04236278	0.123766364
Pattern 4_LBAC_Mean	0.006206765	0.02598701	0.16956393	0.00952477	0.03479227	0.0538962	0.137763721
Pattern 4_LBAC_Upper97.5	0.015571038	0.04762948	0.23608606	0.02262565	0.06770206	0.08765396	0.19708916
Pattern 4_LBAC_Lower2.5	-0.000357609	0.00570645	0.11512026	-0.0007524	0.01533292	0.02572649	0.088493601
Pattern 5_LBAC_Mean	0.007856152	0.06335952	0.13877532	0.0166962	0.02962262	0.03939923	0.179223386
Pattern 5_LBAC_Upper97.5	0.019027738	0.0975788	0.18617772	0.03300227	0.05118113	0.06411001	0.225694236
Pattern 5_LBAC_Lower2.5	-0.000718513	0.03497556	0.0881937	0.00168614	0.00952335	0.01810273	0.130821235
Pattern 6_LBAC_Mean	0.020084115	0.06364044	0.15379392	0.03103065	0.04378084	0.06557777	0.156564959
Pattern 6_LBAC_Upper97.5	0.037478327	0.09060447	0.20272863	0.04947767	0.06780734	0.09119419	0.210716482
Pattern 6_LBAC_Lower2.5	0.005191384	0.03560973	0.10618045	0.01389518	0.01891248	0.03828624	0.11184773
Pattern 7_LBAC_Mean	0.014989919	0.05302477	0.10549637	0.02136131	0.05650628	0.05751526	0.145729008
Pattern 7_LBAC_Upper97.5	0.033040172	0.08386773	0.15306931	0.04218594	0.08408753	0.08862376	0.203127742
Pattern 7_LBAC_Lower2.5	0.003586247	0.02619784	0.0576488	0.00611331	0.03053573	0.02763699	0.088104847
Pattern 8_LBAC_Mean	0.013897514	0.05914069	0.11318451	0.02641178	0.04370928	0.04442699	0.128052395
Pattern 8_LBAC_Upper97.5	0.024631978	0.0904025	0.15670989	0.04645138	0.06381196	0.06831554	0.174995815
Pattern 8_LBAC_Lower2.5	0.003381507	0.03173755	0.05684204	0.00901427	0.02150257	0.02116799	0.093568414
Pattern 9_LBAC_Mean	0.018781486	0.07149719	0.11656671	0.0257572	0.04201333	0.0725474	0.162292542
Pattern 9_LBAC_Upper97.5	0.032661856	0.10562561	0.16176652	0.04071448	0.07051311	0.10428519	0.22057935
Pattern 9_LBAC_Lower2.5	0.006144075	0.0437486	0.07985437	0.01097282	0.02236464	0.03923803	0.116148852
Pattern 10_LBAC_Mean	0.017627242	0.05145693	0.13942365	0.02148223	0.05190987	0.05085841	0.180315291
Pattern 10_LBAC_Upper97.5	0.031650607	0.08849395	0.19128367	0.03861669	0.08346836	0.08688481	0.243628913
Pattern 10_LBAC_Lower2.5	0.006377756	0.02398645	0.102781	0.00781438	0.02445934	0.02593001	0.138866558
Pattern 11_LBAC_Mean	0.015932439	0.07851874	0.12426683	0.02490544	0.03570258	0.05662787	0.155608322
Pattern 11_LBAC_Upper97.5	0.028808731	0.10865159	0.17134153	0.04607688	0.06787312	0.08441573	0.191051487
Pattern 11_LBAC_Lower2.5	0.00341879	0.05050887	0.07879019	0.00918636	0.0143718	0.0238463	0.113740204

	age_sex_wait_only	blood	cognitive	early_life	alcohol	exercise	lifestyle_general
Pattern 12_LBAC_Mean	0.018060962	0.05874556	0.12492285	0.03077349	0.03119848	0.06840889	0.1452486
Pattern 12_LBAC_Upper97.5	0.031725916	0.08887334	0.1616167	0.04863534	0.05738371	0.09434913	0.188040826
Pattern 12_LBAC_Lower2.5	0.006822776	0.02779976	0.07886971	0.01356355	0.00896798	0.04387356	0.108338403
Pattern 13_LBAC_Mean	0.01814523	0.05328947	0.11301959	0.0236554	0.04832188	0.05789426	0.167517654
Pattern 13_LBAC_Upper97.5	0.036014001	0.08586626	0.17885616	0.04507022	0.08268113	0.09482779	0.220321082
Pattern 13_LBAC_Lower2.5	0.005481651	0.02632975	0.07671697	0.0080351	0.02000615	0.02864887	0.117565315
Pattern 14_LBAC_Mean	0.016392451	0.05876078	0.14087969	0.02282726	0.03984717	0.05878791	0.171420853
Pattern 14_LBAC_Upper97.5	0.031649557	0.09181842	0.18884543	0.04505431	0.06583335	0.08558755	0.222805671
Pattern 14_LBAC_Lower2.5	0.005602307	0.02986027	0.09030097	0.00706336	0.0201035	0.03364049	0.121827839
Pattern 15_LBAC_Mean	0.010754304	0.07569643	0.10225929	0.0133125	0.02769841	0.04868218	0.159166069
Pattern 15_LBAC_Upper97.5	0.023048831	0.11005155	0.15300001	0.02545047	0.05212947	0.07399893	0.212735787
Pattern 15_LBAC_Lower2.5	0.002348003	0.04983849	0.04982179	0.00354086	0.01040145	0.02267478	0.103291297
Pattern 16_LBAC_Mean	0.016535724	0.06377259	0.11494089	0.02617091	0.04067829	0.05062266	0.172864054
Pattern 16_LBAC_Upper97.5	0.032339429	0.08849481	0.153615	0.04974756	0.07519648	0.07560831	0.223041651
Pattern 16_LBAC_Lower2.5	0.004935434	0.04072348	0.07603726	0.01286228	0.01184496	0.02337496	0.123129023
Pattern 17_LBAC_Mean	0.006399583	0.05057001	0.13305364	0.01269312	0.02880698	0.04085593	0.160542319
Pattern 17_LBAC_Upper97.5	0.01771265	0.07739034	0.18710195	0.02573249	0.05240542	0.07744327	0.216628797
Pattern 17_LBAC_Lower2.5	-0.001099294	0.02613609	0.08645366	0.0010478	0.00891382	0.01557691	0.089610778
Pattern 18_LBAC_Mean	0.003464563	0.05516643	0.10513728	0.00813925	0.02514719	0.0511344	0.116351275
Pattern 18_LBAC_Upper97.5	0.012424669	0.08638836	0.14963213	0.02077482	0.04512377	0.08133815	0.175463233
Pattern 18_LBAC_Lower2.5	-0.002486891	0.02642733	0.06593283	-0.0013863	0.00260749	0.02510839	0.06865406
Pattern 19_LBAC_Mean	0.024330505	0.06609459	0.10848085	0.03109249	0.04306747	0.07141	0.174736671
Pattern 19_LBAC_Upper97.5	0.04617094	0.09781521	0.15873084	0.05419678	0.07018857	0.10693262	0.218659547
Pattern 19_LBAC_Lower2.5	0.008807357	0.03687831	0.06792235	0.01402759	0.01954938	0.03518521	0.131328678
Pattern 20_LBAC_Mean	0.015814908	0.06073376	0.12558468	0.02237945	0.03995369	0.05754413	0.163400104
Pattern 20_LBAC_Upper97.5	0.029717404	0.1093294	0.17361249	0.0390366	0.06659033	0.08934097	0.218642551
Pattern 20_LBAC_Lower2.5	0.004056925	0.02852538	0.06387165	0.00650499	0.01685948	0.02927047	0.110880763
Pattern 21_LBAC_Mean	0.004818457	0.04467819	0.11829982	0.00587651	0.03297722	0.04342926	0.148229355
Pattern 21_LBAC_Upper97.5	0.014418273	0.07479711	0.16479625	0.02181919	0.06111373	0.06873712	0.215200979
Pattern 21_LBAC_Lower2.5	-0.002041762	0.02271074	0.06117812	-0.0038297	0.01433252	0.01721331	0.100759609
Pattern 22_LBAC_Mean	0.021824727	0.04302955	0.12914283	0.03436548	0.04546111	0.06082004	0.154293357
Pattern 22_LBAC_Upper97.5	0.036617774	0.07595324	0.18517716	0.0518515	0.08358684	0.09420716	0.207277626
Pattern 22_LBAC_Lower2.5	0.007676292	0.01783262	0.09268625	0.01468831	0.02491487	0.03176706	0.109870063

	age_sex_wait_only	blood	cognitive	early_life	alcohol	exercise	lifestyle_general
Pattern 23_LBAC_Mean	0.00654949	0.04623448	0.13634414	0.0103138	0.03559938	0.05315114	0.143204999
Pattern 23_LBAC_Upper97.5	0.018107047	0.06518638	0.18250069	0.02542186	0.05829599	0.07612354	0.184672849
Pattern 23_LBAC_Lower2.5	-0.002429311	0.02647767	0.09259299	-0.0004567	0.01321187	0.02941373	0.101804137
Pattern 24_LBAC_Mean	0.007971045	0.03782441	0.11738933	0.02023503	0.03525214	0.0502571	0.153294747
Pattern 24_LBAC_Upper97.5	0.017896322	0.06174061	0.15841148	0.03426347	0.06074041	0.07945139	0.201612587
Pattern 24_LBAC_Lower2.5	0.00132105	0.01581973	0.07478572	0.00790991	0.01632021	0.02804059	0.10003534
Pattern 25_LBAC_Mean	0.010542133	0.05019112	0.11997595	0.01447829	0.02623614	0.03857724	0.146612472
Pattern 25_LBAC_Upper97.5	0.022656671	0.07736233	0.16200732	0.03418171	0.05445082	0.06543403	0.212337471
Pattern 25_LBAC_Lower2.5	0.001544547	0.02550483	0.07271135	0.00189827	0.00890845	0.01721569	0.095364129
Pattern 26_LBAC_Mean	0.010180672	0.04610002	0.09391473	0.01591674	0.03540578	0.06651631	0.131063848
Pattern 26_LBAC_Upper97.5	0.023605389	0.07268599	0.14307632	0.0388497	0.06026445	0.10781627	0.179764056
Pattern 26_LBAC_Lower2.5	0.000769848	0.02163351	0.04443043	-0.0003438	0.01583965	0.03385907	0.08372333
Pattern 27_LBAC_Mean	0.01744284	0.05006439	0.10222631	0.03098409	0.03431092	0.06992529	0.172484745
Pattern 27_LBAC_Upper97.5	0.031590681	0.07836089	0.15166482	0.05626032	0.05651034	0.10484437	0.240743691
Pattern 27_LBAC_Lower2.5	0.004764064	0.0189499	0.05663548	0.01031819	0.0163392	0.04138937	0.113205285
Pattern 28_LBAC_Mean	0.005517479	0.05274228	0.12492429	0.0095966	0.02993029	0.03735491	0.169039834
Pattern 28_LBAC_Upper97.5	0.01622167	0.08072915	0.17371248	0.02328391	0.04952802	0.06204056	0.215930805
Pattern 28_LBAC_Lower2.5	-0.00130879	0.02444176	0.07144553	-0.0006239	0.01228947	0.01477255	0.113600236
Pattern 29_LBAC_Mean	0.009738876	0.05351994	0.14376926	0.01739056	0.03351055	0.05646597	0.165718952
Pattern 29_LBAC_Upper97.5	0.021741729	0.08443607	0.1939883	0.03319848	0.06014464	0.08136066	0.210976997
Pattern 29_LBAC_Lower2.5	0.000738805	0.02251097	0.09046406	0.00462757	0.00912112	0.02514111	0.125380601
Pattern 30_LBAC_Mean	0.004839238	0.03937126	0.14437313	0.00845238	0.03143836	0.04971784	0.139585127
Pattern 30_LBAC_Upper97.5	0.014886595	0.06873304	0.19841173	0.02165082	0.05404874	0.08094563	0.179412184
Pattern 30_LBAC_Lower2.5	-0.00192702	0.01731112	0.10035622	-0.0016053	0.0048856	0.02202357	0.09275562
Pattern 31_LBAC_Mean	0.011227837	0.0462744	0.09785901	0.01865826	0.02963223	0.08150875	0.155590187
Pattern 31_LBAC_Upper97.5	0.022324291	0.07264179	0.15062161	0.04192761	0.05582509	0.12046503	0.220867217
Pattern 31_LBAC_Lower2.5	0.002800649	0.01613647	0.04743076	0.00547006	0.0076998	0.05521985	0.09979102
Pattern 32_LBAC_Mean	0.010550481	0.05404878	0.10122643	0.01723142	0.03887211	0.04664217	0.144536537
Pattern 32_LBAC_Upper97.5	0.024298277	0.08132612	0.14630072	0.03347259	0.0622242	0.0696298	0.187314449
Pattern 32_LBAC_Lower2.5	0.001780948	0.02543318	0.06272624	0.00411798	0.01667367	0.01888942	0.107130668
Pattern 33_LBAC_Mean	0.002867121	0.03586058	0.12347396	0.00496851	0.03141787	0.03954273	0.119509152
Pattern 33_LBAC_Upper97.5	0.010218125	0.06429081	0.16707074	0.01382616	0.05268812	0.06610522	0.159785442
Pattern 33_LBAC_Lower2.5	-0.002566266	0.00928428	0.06623647	-0.002816	0.01090335	0.01568344	0.082278901

	tobacco	mental_health	bone	cardiac	physical	cognitive_Change	alcohol_Change
Pattern 1_LBAC_Mean	0.0455292	0.149660594	0.03446091	0.06394791	0.05072711	0.101425883	0.035495228
Pattern 1_LBAC_Upper97.5	0.07283453	0.198078275	0.05876801	0.0855409	0.07631965	0.141439273	0.056633624
Pattern 1_LBAC_Lower2.5	0.02431213	0.09961797	0.01269536	0.03965512	0.02387331	0.064673876	0.01200133
Pattern 2_LBAC_Mean	0.05355953	0.155151841	0.03749252	0.05926175	0.05983871	0.086545365	0.040722009
Pattern 2_LBAC_Upper97.5	0.0773492	0.209194679	0.06233061	0.09463037	0.09135943	0.116400488	0.071850659
Pattern 2_LBAC_Lower2.5	0.0251946	0.105586466	0.01725577	0.0305686	0.0317902	0.05632136	0.02031912
Pattern 3_LBAC_Mean	0.05926776	0.15459955	0.03531165	0.05652592	0.0669853	0.09196742	0.037730651
Pattern 3_LBAC_Upper97.5	0.09483119	0.213242549	0.05712966	0.09051288	0.09386878	0.129064676	0.064296433
Pattern 3_LBAC_Lower2.5	0.0339579	0.10526027	0.0163679	0.02876483	0.03951008	0.062211424	0.020845422
Pattern 4_LBAC_Mean	0.03580806	0.154002367	0.02137656	0.02987185	0.03974635	0.076600863	0.024186072
Pattern 4_LBAC_Upper97.5	0.05982244	0.210097986	0.04053034	0.05868518	0.06356619	0.115048784	0.042628471
Pattern 4_LBAC_Lower2.5	0.0135627	0.110665779	0.00671454	0.00911913	0.01888051	0.044651434	0.008415154
Pattern 5_LBAC_Mean	0.04501914	0.149024975	0.01646771	0.03828322	0.02854211	0.081111646	0.020914646
Pattern 5_LBAC_Upper97.5	0.0772507	0.20010582	0.03619118	0.0751226	0.05361114	0.124891229	0.043065713
Pattern 5_LBAC_Lower2.5	0.02137202	0.090379283	0.00279414	0.01003251	0.00861176	0.044667143	0.003641234
Pattern 6_LBAC_Mean	0.05319502	0.159985113	0.02959296	0.05669693	0.06306733	0.096748215	0.033695515
Pattern 6_LBAC_Upper97.5	0.10042925	0.217358053	0.04723898	0.08441993	0.0963144	0.12913918	0.057312135
Pattern 6_LBAC_Lower2.5	0.0202453	0.113786926	0.01032396	0.02777289	0.02746366	0.06161981	0.011487911
Pattern 7_LBAC_Mean	0.04167486	0.172980041	0.02976399	0.04728017	0.04295719	0.081068832	0.031669836
Pattern 7_LBAC_Upper97.5	0.07261323	0.232315127	0.05313279	0.07240689	0.06763814	0.110232116	0.058001859
Pattern 7_LBAC_Lower2.5	0.01510346	0.117452883	0.01082035	0.02493032	0.02232584	0.050816636	0.013104213
Pattern 8_LBAC_Mean	0.05585563	0.166280298	0.02898662	0.0507205	0.04462804	0.077173664	0.041841053
Pattern 8_LBAC_Upper97.5	0.08325179	0.216264068	0.05650913	0.07442098	0.07945691	0.114849626	0.065390389
Pattern 8_LBAC_Lower2.5	0.03200269	0.126628299	0.01280462	0.02781203	0.0176946	0.047788233	0.020689861
Pattern 9_LBAC_Mean	0.06231623	0.159589162	0.02841784	0.0509688	0.05574482	0.07847775	0.039967805
Pattern 9_LBAC_Upper97.5	0.09600911	0.207218687	0.04872957	0.08411547	0.08442051	0.104862355	0.064554584
Pattern 9_LBAC_Lower2.5	0.03691056	0.113770041	0.00726952	0.02362159	0.03041414	0.043375431	0.014856132
Pattern 10_LBAC_Mean	0.04246766	0.191040799	0.04080226	0.05548603	0.03918828	0.111185339	0.032084066
Pattern 10_LBAC_Upper97.5	0.07498092	0.249099662	0.06206384	0.08602132	0.07146106	0.143936704	0.055648016
Pattern 10_LBAC_Lower2.5	0.02098671	0.128031837	0.02141217	0.02876125	0.01925424	0.078292907	0.015055061
Pattern 11_LBAC_Mean	0.06578218	0.144430501	0.03089803	0.0405974	0.05294294	0.076429306	0.029969994
Pattern 11_LBAC_Upper97.5	0.09734309	0.190587241	0.05587819	0.06939352	0.08110613	0.11247235	0.050189693
Pattern 11_LBAC_Lower2.5	0.0409004	0.101158314	0.0119969	0.01557101	0.02555563	0.042403643	0.00965568

	tobacco	mental_health	bone	cardiac	physical	cognitive_Change	alcohol_Change
Pattern 12_LBAC_Mean	0.04869818	0.194187657	0.02775904	0.03546011	0.05032791	0.086674215	0.034506713
Pattern 12_LBAC_Upper97.5	0.0833541	0.247982797	0.04485157	0.06276636	0.07655236	0.120198995	0.056021416
Pattern 12_LBAC_Lower2.5	0.02600877	0.142845149	0.01185526	0.01227837	0.02034253	0.055235065	0.017447575
Pattern 13_LBAC_Mean	0.05274938	0.167089246	0.03078031	0.06014089	0.04476445	0.096048996	0.033381899
Pattern 13_LBAC_Upper97.5	0.08669139	0.229332746	0.06226169	0.09527974	0.07604875	0.135526917	0.056636092
Pattern 13_LBAC_Lower2.5	0.02715265	0.122083554	0.00657883	0.03420417	0.0212544	0.06153434	0.015588461
Pattern 14_LBAC_Mean	0.04494846	0.196909411	0.02903395	0.05840958	0.04541213	0.104811975	0.037913274
Pattern 14_LBAC_Upper97.5	0.07579477	0.249765593	0.04890174	0.09419513	0.07333013	0.150156903	0.062261468
Pattern 14_LBAC_Lower2.5	0.02069989	0.146173728	0.01415965	0.03048343	0.01789582	0.065996343	0.017386358
Pattern 15_LBAC_Mean	0.04126986	0.15708942	0.02302807	0.04515338	0.0537318	0.094253345	0.022375528
Pattern 15_LBAC_Upper97.5	0.06734424	0.206593069	0.04002321	0.06992313	0.10316697	0.128597097	0.040994892
Pattern 15_LBAC_Lower2.5	0.01990156	0.111523641	0.0085692	0.02175781	0.01963771	0.05660447	0.005280784
Pattern 16_LBAC_Mean	0.0432292	0.163494569	0.02991488	0.05936	0.03556886	0.107649016	0.024677708
Pattern 16_LBAC_Upper97.5	0.07008266	0.223721204	0.05289061	0.09415317	0.06150781	0.15834669	0.046605007
Pattern 16_LBAC_Lower2.5	0.02088003	0.115925146	0.01345568	0.02835441	0.0102194	0.063614348	0.007514175
Pattern 17_LBAC_Mean	0.02943644	0.166445035	0.02536936	0.04189586	0.04774927	0.078631157	0.02519086
Pattern 17_LBAC_Upper97.5	0.04702027	0.228817403	0.04560654	0.07213465	0.07488484	0.117478836	0.046483273
Pattern 17_LBAC_Lower2.5	0.00885978	0.110506707	0.00946332	0.01665258	0.02285957	0.036301095	0.008504391
Pattern 18_LBAC_Mean	0.03514572	0.129812494	0.01621239	0.03518299	0.02949297	0.058104375	0.024443728
Pattern 18_LBAC_Upper97.5	0.05932119	0.198023549	0.02945356	0.06187077	0.05277579	0.096161153	0.043724362
Pattern 18_LBAC_Lower2.5	0.01292674	0.076839205	0.00226339	0.01437495	0.01044257	0.025657869	0.008597531
Pattern 19_LBAC_Mean	0.07015435	0.17194321	0.04728333	0.0659616	0.05705733	0.09406656	0.05002388
Pattern 19_LBAC_Upper97.5	0.10179382	0.224607619	0.0829968	0.10298579	0.09830517	0.135956738	0.082550884
Pattern 19_LBAC_Lower2.5	0.04351002	0.12039732	0.01905807	0.0363919	0.02892731	0.054497062	0.025431132
Pattern 20_LBAC_Mean	0.04117236	0.140644369	0.03061586	0.04981833	0.04284816	0.101478156	0.030349815
Pattern 20_LBAC_Upper97.5	0.07127599	0.191502285	0.05215469	0.08543356	0.07246736	0.13626395	0.054896356
Pattern 20_LBAC_Lower2.5	0.01748249	0.091446495	0.01256828	0.02125076	0.02071677	0.064018159	0.009259399
Pattern 21_LBAC_Mean	0.03783529	0.139377851	0.01857003	0.04852508	0.02602243	0.08187049	0.027258949
Pattern 21_LBAC_Upper97.5	0.06566921	0.194937778	0.03588554	0.09446526	0.04411014	0.127957748	0.051494592
Pattern 21_LBAC_Lower2.5	0.01345191	0.086413303	0.00134606	0.01701785	0.00899312	0.041489926	0.008064414
Pattern 22_LBAC_Mean	0.07287998	0.158940329	0.03104266	0.05453187	0.05033443	0.074495863	0.040106778
Pattern 22_LBAC_Upper97.5	0.11504067	0.219601494	0.04991862	0.07796025	0.07713262	0.111025232	0.068942743
Pattern 22_LBAC_Lower2.5	0.04439464	0.104395139	0.01249381	0.03134989	0.02445625	0.037086015	0.020719354

	tobacco	mental_health	bone	cardiac	physical	cognitive_Change	alcohol_Change
Pattern 23_LBAC_Mean	0.03677195	0.143587679	0.01686919	0.04621157	0.03193402	0.085970591	0.024055899
Pattern 23_LBAC_Upper97.5	0.06405766	0.186113348	0.03251922	0.07427385	0.05765911	0.129460189	0.043721109
Pattern 23_LBAC_Lower2.5	0.01337302	0.100015295	0.00251651	0.0237539	0.00980248	0.043349291	0.008304737
Pattern 24_LBAC_Mean	0.04783794	0.137995979	0.0158373	0.03801738	0.02542191	0.096620296	0.033236256
Pattern 24_LBAC_Upper97.5	0.08050655	0.180089531	0.03091688	0.07245502	0.04208123	0.134638151	0.064324791
Pattern 24_LBAC_Lower2.5	0.02484847	0.093318737	0.00507587	0.01309493	0.00768065	0.056971726	0.013332789
Pattern 25_LBAC_Mean	0.05387175	0.14986353	0.01871933	0.04518883	0.04201394	0.073677788	0.023943458
Pattern 25_LBAC_Upper97.5	0.09385555	0.209157671	0.0332104	0.07973547	0.09075096	0.109112061	0.048859277
Pattern 25_LBAC_Lower2.5	0.02844846	0.102159374	0.00437066	0.01622597	0.01554331	0.041750356	0.006170282
Pattern 26_LBAC_Mean	0.02898453	0.142801492	0.01615402	0.06067515	0.04877664	0.06791338	0.01758027
Pattern 26_LBAC_Upper97.5	0.05374984	0.20306974	0.03179321	0.10073778	0.08762155	0.104001465	0.037024526
Pattern 26_LBAC_Lower2.5	0.00864527	0.098567886	-0.0021071	0.03006816	0.01986676	0.032625056	0.001993461
Pattern 27_LBAC_Mean	0.04217352	0.158185486	0.02305228	0.06600934	0.05596235	0.067418776	0.027461979
Pattern 27_LBAC_Upper97.5	0.06790165	0.243327304	0.0420044	0.11878245	0.11219977	0.099662454	0.047025898
Pattern 27_LBAC_Lower2.5	0.01829301	0.107495896	0.00754746	0.03190636	0.01838876	0.044139129	0.009691588
Pattern 28_LBAC_Mean	0.0283825	0.132998391	0.03165571	0.04083431	0.02641643	0.068007063	0.028254391
Pattern 28_LBAC_Upper97.5	0.05393187	0.185112634	0.07739316	0.07269337	0.04970542	0.105788769	0.053907217
Pattern 28_LBAC_Lower2.5	0.01014881	0.093707305	0.00511286	0.02047456	0.0043005	0.034432527	0.008885875
Pattern 29_LBAC_Mean	0.044274	0.126568414	0.02717927	0.0426132	0.03069896	0.093745217	0.030611595
Pattern 29_LBAC_Upper97.5	0.07317057	0.175330901	0.04737748	0.07038091	0.05620361	0.126784174	0.057121697
Pattern 29_LBAC_Lower2.5	0.0222615	0.07282878	0.00978685	0.0183145	0.00556225	0.061861881	0.0092508
Pattern 30_LBAC_Mean	0.04705512	0.168293268	0.020419	0.04393249	0.03370379	0.079275853	0.021137625
Pattern 30_LBAC_Upper97.5	0.07430537	0.224132979	0.0360472	0.08399173	0.05726851	0.111088912	0.041830478
Pattern 30_LBAC_Lower2.5	0.02144175	0.120447411	0.00501601	0.01795828	0.01531237	0.047624525	0.001703419
Pattern 31_LBAC_Mean	0.03994692	0.139507349	0.02318862	0.04289533	0.06120327	0.053030667	0.033677888
Pattern 31_LBAC_Upper97.5	0.06913287	0.229714716	0.04170479	0.09344811	0.12459804	0.094505588	0.067929796
Pattern 31_LBAC_Lower2.5	0.01452187	0.074587526	0.00991739	0.01020509	0.02108264	0.022396901	0.007453946
Pattern 32_LBAC_Mean	0.04229265	0.142619055	0.02145112	0.03850273	0.03789684	0.087598121	0.027194528
Pattern 32_LBAC_Upper97.5	0.06881684	0.188898481	0.04556444	0.06383121	0.06383838	0.127392734	0.046966286
Pattern 32_LBAC_Lower2.5	0.01766525	0.094744186	0.00509197	0.015715	0.01376741	0.052329753	0.007826053
Pattern 33_LBAC_Mean	0.02565727	0.15334078	0.01052343	0.03601574	0.03190908	0.076332004	0.016851791
Pattern 33_LBAC_Upper97.5	0.05042729	0.205683227	0.02493049	0.05528461	0.06146969	0.10599682	0.032715512
Pattern 33_LBAC_Lower2.5	0.00678287	0.092145359	-0.0012241	0.01412275	0.01183557	0.047376706	0.00557596

	exercise_Change	lifestyle_general_Change	tobacco_Change	mental_health_Change	bone_Change
Pattern 1_LBAC_Mean	0.049695348	0.083055117	0.028420096	0.034306976	0.022345751
Pattern 1_LBAC_Upper97.5	0.078671141	0.111491281	0.050240919	0.057254579	0.039127055
Pattern 1_LBAC_Lower2.5	0.025037742	0.052020916	0.010071164	0.015939657	0.007235806
Pattern 2_LBAC_Mean	0.068626965	0.073544861	0.041841418	0.040752548	0.027969501
Pattern 2_LBAC_Upper97.5	0.100140743	0.107611339	0.065438617	0.063232768	0.044880382
Pattern 2_LBAC_Lower2.5	0.042978164	0.042703098	0.021350532	0.021378197	0.012421953
Pattern 3_LBAC_Mean	0.063174427	0.09577527	0.031250979	0.035676802	0.024424744
Pattern 3_LBAC_Upper97.5	0.097713738	0.139260037	0.055755521	0.058094714	0.043388787
Pattern 3_LBAC_Lower2.5	0.037252763	0.061695647	0.008988591	0.014092016	0.011286026
Pattern 4_LBAC_Mean	0.052454814	0.058475703	0.010357763	0.01844915	0.01786506
Pattern 4_LBAC_Upper97.5	0.08164423	0.101264976	0.023304299	0.039835943	0.044859129
Pattern 4_LBAC_Lower2.5	0.027293772	0.021860897	-0.002537674	-0.001591998	0.002802847
Pattern 5_LBAC_Mean	0.038375079	0.095275361	0.024806114	0.026777206	0.014296099
Pattern 5_LBAC_Upper97.5	0.070612656	0.138914929	0.044593226	0.048953872	0.027014194
Pattern 5_LBAC_Lower2.5	0.013572876	0.055897422	0.007965818	0.004568815	0.002578598
Pattern 6_LBAC_Mean	0.049508045	0.089699906	0.031058846	0.042009368	0.023336327
Pattern 6_LBAC_Upper97.5	0.078786083	0.120220412	0.05122148	0.067332263	0.039066901
Pattern 6_LBAC_Lower2.5	0.02765346	0.059783836	0.012662345	0.019991573	0.006725206
Pattern 7_LBAC_Mean	0.048513814	0.083888577	0.024182642	0.039122576	0.018464497
Pattern 7_LBAC_Upper97.5	0.07317074	0.12682626	0.041426124	0.070148211	0.035836768
Pattern 7_LBAC_Lower2.5	0.022001276	0.051246315	0.004249277	0.01978506	0.003600495
Pattern 8_LBAC_Mean	0.057471365	0.105524993	0.023520779	0.036167382	0.015947141
Pattern 8_LBAC_Upper97.5	0.086727731	0.148803578	0.04071762	0.061308233	0.02685631
Pattern 8_LBAC_Lower2.5	0.036072261	0.066261803	0.010923111	0.012798213	0.005610436
Pattern 9_LBAC_Mean	0.049336138	0.094177273	0.022159817	0.03993852	0.024276671
Pattern 9_LBAC_Upper97.5	0.077389805	0.1350681	0.043959575	0.063487132	0.042039091
Pattern 9_LBAC_Lower2.5	0.023817113	0.064597738	0.006271065	0.017999959	0.009009114
Pattern 10_LBAC_Mean	0.053258331	0.098652101	0.032941004	0.04616844	0.017846138
Pattern 10_LBAC_Upper97.5	0.080030025	0.137106445	0.054456182	0.071821175	0.036145136
Pattern 10_LBAC_Lower2.5	0.03003091	0.061894298	0.01382085	0.023872882	0.005947158
Pattern 11_LBAC_Mean	0.052859898	0.077048853	0.023099683	0.037889877	0.02264234
Pattern 11_LBAC_Upper97.5	0.076449878	0.111260077	0.037843484	0.059856446	0.043594605
Pattern 11_LBAC_Lower2.5	0.028675617	0.045497224	0.006791496	0.015081346	0.007900262

	exercise_Change	lifestyle_general_Change	tobacco_Change	mental_health_Change	bone_Change
Pattern 12_LBAC_Mean	0.038359861	0.095233695	0.024768301	0.040034291	0.021739692
Pattern 12_LBAC_Upper97.5	0.061194057	0.12881146	0.044749307	0.062848959	0.037163221
Pattern 12_LBAC_Lower2.5	0.019879564	0.056701842	0.008275942	0.017711556	0.008242733
Pattern 13_LBAC_Mean	0.047312068	0.110243508	0.027384003	0.05071283	0.02382103
Pattern 13_LBAC_Upper97.5	0.080080152	0.153533992	0.04428668	0.077008737	0.04357871
Pattern 13_LBAC_Lower2.5	0.019136209	0.071313857	0.010572905	0.027840839	0.005917783
Pattern 14_LBAC_Mean	0.043188499	0.094907946	0.023925565	0.040716841	0.017536135
Pattern 14_LBAC_Upper97.5	0.069992136	0.155448823	0.042332712	0.061412313	0.037582906
Pattern 14_LBAC_Lower2.5	0.021759436	0.057497633	0.011571423	0.02220968	0.004444245
Pattern 15_LBAC_Mean	0.04262786	0.062422556	0.020273976	0.045404356	0.015284116
Pattern 15_LBAC_Upper97.5	0.06538361	0.109890855	0.038205877	0.070833972	0.029022484
Pattern 15_LBAC_Lower2.5	0.023106707	0.02048457	0.003024534	0.022980898	0.003386592
Pattern 16_LBAC_Mean	0.046183902	0.099574586	0.030944215	0.040866054	0.016931298
Pattern 16_LBAC_Upper97.5	0.077288769	0.137861786	0.053361873	0.074027556	0.030240914
Pattern 16_LBAC_Lower2.5	0.023556036	0.064619746	0.012197247	0.015858753	0.003115408
Pattern 17_LBAC_Mean	0.047308055	0.078189784	0.016456985	0.029164801	0.011875466
Pattern 17_LBAC_Upper97.5	0.073224715	0.128641142	0.03570141	0.070373075	0.029673874
Pattern 17_LBAC_Lower2.5	0.022075263	0.041923388	0.004147828	0.008188836	0.000716802
Pattern 18_LBAC_Mean	0.03738085	0.08504721	0.017375887	0.02872215	0.006068685
Pattern 18_LBAC_Upper97.5	0.062485311	0.126755384	0.033770394	0.068244574	0.016690945
Pattern 18_LBAC_Lower2.5	0.016140813	0.0514405	0.005960544	0.005421882	-0.002053503
Pattern 19_LBAC_Mean	0.050687814	0.092987501	0.032818925	0.049936431	0.027603948
Pattern 19_LBAC_Upper97.5	0.07549339	0.135093278	0.05685908	0.080896568	0.052118118
Pattern 19_LBAC_Lower2.5	0.025280215	0.050900579	0.008706531	0.026427844	0.011449787
Pattern 20_LBAC_Mean	0.048033876	0.094764121	0.020114288	0.036387507	0.02236287
Pattern 20_LBAC_Upper97.5	0.075368226	0.133465117	0.043174998	0.06320842	0.043425354
Pattern 20_LBAC_Lower2.5	0.023027417	0.059208726	0.003820341	0.014082697	0.006470096
Pattern 21_LBAC_Mean	0.027722003	0.06259883	0.017517209	0.024766824	0.00765169
Pattern 21_LBAC_Upper97.5	0.056418372	0.096872861	0.035373716	0.042059744	0.021138539
Pattern 21_LBAC_Lower2.5	0.008513342	0.027443009	0.003932605	0.00848083	-0.002512105
Pattern 22_LBAC_Mean	0.057642542	0.085624117	0.031345063	0.045171697	0.028276163
Pattern 22_LBAC_Upper97.5	0.090972417	0.125458817	0.051278786	0.081025216	0.045220424
Pattern 22_LBAC_Lower2.5	0.029587196	0.051957638	0.012599888	0.017749498	0.012933052

	exercise_Change	lifestyle_general_Change	tobacco_Change	mental_health_Change	bone_Change
Pattern 23_LBAC_Mean	0.045557453	0.078451267	0.01767547	0.025868286	0.007298694
Pattern 23_LBAC_Upper97.5	0.066038133	0.114252252	0.03457646	0.047846523	0.019932205
Pattern 23_LBAC_Lower2.5	0.020562778	0.051059238	0.00251308	0.008071358	-0.002980362
Pattern 24_LBAC_Mean	0.044726295	0.088996816	0.019455738	0.031863938	0.013065475
Pattern 24_LBAC_Upper97.5	0.075053999	0.140160236	0.039331444	0.062744552	0.027481844
Pattern 24_LBAC_Lower2.5	0.019319576	0.05146636	0.007039546	0.012220089	0.002108167
Pattern 25_LBAC_Mean	0.041460252	0.072297628	0.014978012	0.031469304	0.012334563
Pattern 25_LBAC_Upper97.5	0.065371408	0.108310112	0.029979991	0.053836213	0.026092298
Pattern 25_LBAC_Lower2.5	0.020552035	0.038197229	0.002141736	0.006582844	0.002602855
Pattern 26_LBAC_Mean	0.036474523	0.078513859	0.019892363	0.033138235	0.015495281
Pattern 26_LBAC_Upper97.5	0.05971778	0.108356934	0.037639934	0.06592986	0.029608159
Pattern 26_LBAC_Lower2.5	0.009120077	0.043898042	0.002353549	0.015088789	0.001390523
Pattern 27_LBAC_Mean	0.046806369	0.07440789	0.022222093	0.033519586	0.019341565
Pattern 27_LBAC_Upper97.5	0.071398954	0.106354322	0.040222981	0.055246736	0.03571237
Pattern 27_LBAC_Lower2.5	0.022330318	0.040949081	0.004137627	0.01123961	0.00537905
Pattern 28_LBAC_Mean	0.060378813	0.072919873	0.025129707	0.026146706	0.011337967
Pattern 28_LBAC_Upper97.5	0.092247404	0.110562423	0.053686314	0.050880554	0.0255272
Pattern 28_LBAC_Lower2.5	0.034186142	0.037083902	0.008581709	0.002898324	-0.000388065
Pattern 29_LBAC_Mean	0.033803948	0.063722518	0.023996287	0.038380997	0.016224958
Pattern 29_LBAC_Upper97.5	0.058696212	0.108528539	0.042714108	0.058687665	0.031235659
Pattern 29_LBAC_Lower2.5	0.014192854	0.032311353	0.007821102	0.022597731	0.004633749
Pattern 30_LBAC_Mean	0.0359226	0.056208718	0.01529638	0.032612254	0.005716593
Pattern 30_LBAC_Upper97.5	0.062723285	0.091067716	0.030154646	0.055048009	0.018095152
Pattern 30_LBAC_Lower2.5	0.015438869	0.030550625	0.001097003	0.01720096	-0.003079547
Pattern 31_LBAC_Mean	0.049898293	0.076482382	0.014224026	0.037979528	0.012775162
Pattern 31_LBAC_Upper97.5	0.085127906	0.118389605	0.02897108	0.074294532	0.024366441
Pattern 31_LBAC_Lower2.5	0.025991327	0.038680895	0.004135489	0.015148898	0.003500805
Pattern 32_LBAC_Mean	0.044166852	0.083690083	0.025554679	0.024550363	0.010691645
Pattern 32_LBAC_Upper97.5	0.070646038	0.113053907	0.047297526	0.053201802	0.025719388
Pattern 32_LBAC_Lower2.5	0.022472668	0.050624212	0.010312491	0.008617914	0.001604002
Pattern 33_LBAC_Mean	0.046149901	0.062646582	0.012412812	0.027000584	0.004451037
Pattern 33_LBAC_Upper97.5	0.07621282	0.092743126	0.030312459	0.0446647	0.015129872
Pattern 33_LBAC_Lower2.5	0.022822536	0.03419926	0.000948204	0.009147991	-0.004317114

Supplementary Table 3:

Adjusted coefficient of determination of a linear regression assessing structural brain asymmetry changes (MBACs) on the basis of age, sex, time between visits and phenotypes from one domain of behaviour or behavioural change. Confidence interval (2.5%/97.5%) determined with bootstrapping. Coefficient of determination (R2) was adjusted to account for different numbers of regressors in each model. Source data are provided as a Source Data file.

	age_sex_wait_only	blood	cognitive	early_life	alcohol	exercise	lifestyle_general
Pattern 1_MBAC_Mean	0.004972097	0.04920124	0.11360493	0.0140938	0.02900266	0.04768512	0.157752596
Pattern 1_MBAC_Upper97.5	0.017232215	0.07870447	0.15494748	0.02784455	0.05117492	0.08313764	0.206984059
Pattern 1_MBAC_Lower2.5	-0.000916592	0.02600318	0.07312017	0.0001985	0.01043519	0.01663782	0.115147873
Pattern 2_MBAC_Mean	0.000343916	0.0305981	0.10108024	0.00758179	0.0174138	0.05829309	0.156124844
Pattern 2_MBAC_Upper97.5	0.006118849	0.05618448	0.14999279	0.01826547	0.03394514	0.08404741	0.204675275
Pattern 2_MBAC_Lower2.5	-0.003559988	0.00623823	0.05157883	-0.0002535	-0.0006108	0.03566783	0.092528962
Pattern 3_MBAC_Mean	0.002975533	0.03200552	0.09955155	0.00942628	0.02410052	0.05917746	0.14974679
Pattern 3_MBAC_Upper97.5	0.015849786	0.0612309	0.14923452	0.02142088	0.04582979	0.0928399	0.199907145
Pattern 3_MBAC_Lower2.5	-0.002654648	0.00744071	0.05480811	-0.0014355	0.00696893	0.03074117	0.104043478
Pattern 4_MBAC_Mean	0.002011797	0.04412045	0.15156516	0.00957692	0.0257395	0.04919397	0.1457058
Pattern 4_MBAC_Upper97.5	0.007322975	0.07294882	0.20374802	0.02233417	0.0529763	0.0741357	0.187025533
Pattern 4_MBAC_Lower2.5	-0.002953572	0.02097927	0.0990147	-0.00024	0.00486334	0.02718969	0.103694523
Pattern 5_MBAC_Mean	0.006711117	0.04504773	0.12701962	0.01238324	0.03075597	0.03878517	0.190879855
Pattern 5_MBAC_Upper97.5	0.016665733	0.06664733	0.16690802	0.03090641	0.0579972	0.05650883	0.2361955
Pattern 5_MBAC_Lower2.5	-0.000441422	0.01708949	0.08759077	0.00071939	0.01166469	0.0151013	0.150796137
Pattern 6_MBAC_Mean	0.006791605	0.04321573	0.12793744	0.01436328	0.03677263	0.04807193	0.156142324
Pattern 6_MBAC_Upper97.5	0.019351965	0.07744694	0.16995014	0.03110924	0.06880254	0.07249996	0.194869192
Pattern 6_MBAC_Lower2.5	-0.001188164	0.01726391	0.09556744	0.00159421	0.01511278	0.02042521	0.106814219
Pattern 7_MBAC_Mean	0.004021461	0.02779821	0.11630501	0.00791922	0.0309444	0.03835841	0.166921843
Pattern 7_MBAC_Upper97.5	0.01327098	0.05352927	0.15308361	0.0226578	0.05561476	0.06649874	0.213118056
Pattern 7_MBAC_Lower2.5	-0.001830698	0.00205107	0.08572461	-0.0034501	0.00867535	0.01482508	0.120210297
Pattern 8_MBAC_Mean	0.006439217	0.03269449	0.11571373	0.01797832	0.026375	0.05508542	0.169035386
Pattern 8_MBAC_Upper97.5	0.016869422	0.05556393	0.16689231	0.03281822	0.04628858	0.08458242	0.2190485
Pattern 8_MBAC_Lower2.5	-0.000565456	0.01079199	0.06954306	0.00356922	0.00610644	0.03307993	0.128554804
Pattern 9_MBAC_Mean	0.002703555	0.04544316	0.13478771	0.01383385	0.02867184	0.05236482	0.12461769
Pattern 9_MBAC_Upper97.5	0.010183794	0.07032404	0.17634159	0.02902778	0.05396856	0.08138327	0.173128162
Pattern 9_MBAC_Lower2.5	-0.001956978	0.0200556	0.08778926	0.00412002	0.01078165	0.02206137	0.078119027
Pattern 10_MBAC_Mean	0.001314996	0.05886176	0.12429096	0.00697284	0.01941972	0.04053226	0.16186404
Pattern 10_MBAC_Upper97.5	0.011874423	0.0880054	0.17167686	0.01917124	0.04382054	0.06303181	0.198195462
Pattern 10_MBAC_Lower2.5	-0.003095602	0.02948438	0.07842036	-0.0032868	0.00117545	0.01896717	0.127787177
Pattern 11_MBAC_Mean	0.000776351	0.04448702	0.12361927	0.00897705	0.01899306	0.04310459	0.1712398
Pattern 11_MBAC_Upper97.5	0.00774098	0.07039755	0.16114293	0.02067646	0.03834912	0.06946768	0.211719853
Pattern 11_MBAC_Lower2.5	-0.003267664	0.01521506	0.07920509	0.000535	0.00143078	0.02052057	0.138404195

	age_sex_wait_only	blood	cognitive	early_life	alcohol	exercise	lifestyle_general
Pattern 12_MBAC_Mean	0.002768066	0.05659091	0.09943962	0.018995	0.0099739	0.05252848	0.186711913
Pattern 12_MBAC_Upper97.5	0.012910937	0.08397645	0.14644609	0.0354839	0.03128448	0.07956816	0.233374557
Pattern 12_MBAC_Lower2.5	-0.002690423	0.02458006	0.05859748	0.00615035	-0.0055024	0.03226107	0.148128296
Pattern 13_MBAC_Mean	0.001249393	0.03455746	0.1014771	0.01541547	0.02160347	0.03855897	0.158528281
Pattern 13_MBAC_Upper97.5	0.008414934	0.0559516	0.14504133	0.03067699	0.04618246	0.06313529	0.205253192
Pattern 13_MBAC_Lower2.5	-0.002905238	0.01417827	0.05726687	0.00175598	0.00198959	0.01569783	0.109748661
Pattern 14_MBAC_Mean	0.004383301	0.04489113	0.12805349	0.01177062	0.02132644	0.05307694	0.156751318
Pattern 14_MBAC_Upper97.5	0.012725152	0.06627974	0.1695636	0.02730707	0.04377634	0.08632669	0.201427307
Pattern 14_MBAC_Lower2.5	-0.001842607	0.02273209	0.09262774	-0.0002118	0.00338113	0.02764502	0.11787539
Pattern 15_MBAC_Mean	0.00200203	0.04732939	0.09562152	0.00625171	0.01674173	0.05464397	0.160876593
Pattern 15_MBAC_Upper97.5	0.009773953	0.0733391	0.13547333	0.01540376	0.04103845	0.08429453	0.226347156
Pattern 15_MBAC_Lower2.5	-0.002923715	0.02003228	0.05131806	-0.0018613	-0.0037362	0.02585508	0.114487252
Pattern 16_MBAC_Mean	0.007885389	0.04181233	0.10336563	0.01842757	0.03926248	0.04670896	0.141410138
Pattern 16_MBAC_Upper97.5	0.019588192	0.06728674	0.15740434	0.03359114	0.06178957	0.0706796	0.194035875
Pattern 16_MBAC_Lower2.5	0.000456163	0.01871203	0.05990832	0.00607663	0.01883753	0.02498208	0.09705587
Pattern 17_MBAC_Mean	0.004661693	0.03785173	0.1287248	0.01498362	0.01689851	0.04494679	0.153998145
Pattern 17_MBAC_Upper97.5	0.014143859	0.0679101	0.17132623	0.02809303	0.03655079	0.06839681	0.188082824
Pattern 17_MBAC_Lower2.5	-0.00151793	0.01311213	0.07765783	0.00124825	-0.0009566	0.02228272	0.110822525
Pattern 18_MBAC_Mean	0.003363619	0.06002755	0.12523967	0.0096696	0.02080417	0.05105749	0.151707137
Pattern 18_MBAC_Upper97.5	0.014599982	0.08851421	0.18193215	0.02453361	0.04813098	0.07837553	0.189167743
Pattern 18_MBAC_Lower2.5	-0.003028286	0.03266315	0.0793637	-0.0010828	0.00355568	0.024568	0.111230426
Pattern 19_MBAC_Mean	0.00665859	0.05505885	0.12691671	0.01916703	0.02603287	0.04411699	0.16226049
Pattern 19_MBAC_Upper97.5	0.017162562	0.08297056	0.16934242	0.03367031	0.04544299	0.06794622	0.2031084
Pattern 19_MBAC_Lower2.5	-0.00051469	0.03266885	0.08427597	0.00652977	0.0091749	0.0215773	0.11834718
Pattern 20_MBAC_Mean	0.00773852	0.05293998	0.12362335	0.01643188	0.02727009	0.05108485	0.144428495
Pattern 20_MBAC_Upper97.5	0.020038353	0.08519017	0.16292625	0.03389572	0.04895485	0.08618518	0.197281437
Pattern 20_MBAC_Lower2.5	-0.000624768	0.02357417	0.07908282	0.00224971	0.00941266	0.02334637	0.104560774
Pattern 21_MBAC_Mean	0.010463004	0.05352476	0.12439856	0.01592744	0.04568394	0.06161599	0.15290323
Pattern 21_MBAC_Upper97.5	0.024335332	0.07465056	0.16631016	0.02846066	0.07031242	0.09009371	0.194796356
Pattern 21_MBAC_Lower2.5	0.000279632	0.03185984	0.09011535	0.004624	0.02479414	0.03605851	0.104001397
Pattern 22_MBAC_Mean	0.002110701	0.04052399	0.14388036	0.01184037	0.0202937	0.05200896	0.148092705
Pattern 22_MBAC_Upper97.5	0.01124335	0.06660375	0.18842866	0.02803313	0.04065327	0.08251298	0.190826532
Pattern 22_MBAC_Lower2.5	-0.002529283	0.01530506	0.10132061	-0.0007178	0.00355707	0.02673047	0.102325018

	age_sex_wait_only	blood	cognitive	early_life	alcohol	exercise	lifestyle_general
Pattern 23_MBAC_Mean	0.003807225	0.04162104	0.1399032	0.014337	0.03107846	0.0358577	0.138690213
Pattern 23_MBAC_Upper97.5	0.011405463	0.06667914	0.19352585	0.02929969	0.05354457	0.06175972	0.187681149
Pattern 23_MBAC_Lower2.5	-0.001491097	0.01734943	0.10195407	0.00048993	0.01409047	0.01542277	0.091661012
Pattern 24_MBAC_Mean	-0.000254031	0.0317071	0.11892868	0.00608262	0.02159309	0.04378526	0.159248541
Pattern 24_MBAC_Upper97.5	0.005626394	0.05696394	0.15806659	0.01624308	0.04323411	0.06478234	0.208218251
Pattern 24_MBAC_Lower2.5	-0.003408114	0.01004272	0.0712386	-0.0032859	0.00292784	0.0227846	0.117820152
Pattern 25_MBAC_Mean	0.010135663	0.05178055	0.13310314	0.0242125	0.03719178	0.07507992	0.14883061
Pattern 25_MBAC_Upper97.5	0.021728378	0.08074866	0.18362675	0.04764016	0.06176041	0.10582315	0.207121778
Pattern 25_MBAC_Lower2.5	0.002303201	0.02857949	0.09001863	0.00967185	0.01648068	0.045	0.100270846
Pattern 26_MBAC_Mean	0.009716125	0.05261166	0.12724524	0.01491038	0.03018612	0.06510331	0.148851442
Pattern 26_MBAC_Upper97.5	0.023383759	0.08039076	0.16971264	0.02723201	0.05446078	0.08789069	0.189250808
Pattern 26_MBAC_Lower2.5	-0.000235427	0.03204796	0.08837526	0.00451564	0.01044644	0.04252936	0.10679296
Pattern 27_MBAC_Mean	0.009381038	0.05888272	0.11568155	0.01500733	0.03657246	0.05398811	0.17047656
Pattern 27_MBAC_Upper97.5	0.023396735	0.08665033	0.16286388	0.034059	0.0593414	0.08700181	0.217265177
Pattern 27_MBAC_Lower2.5	0.001527415	0.02678016	0.07440724	0.00228722	0.01756599	0.02940551	0.12212828
Pattern 28_MBAC_Mean	0.006908172	0.05165834	0.09929425	0.01491942	0.03815783	0.05059161	0.145487031
Pattern 28_MBAC_Upper97.5	0.017413932	0.08179338	0.13769061	0.02634221	0.056498	0.07831893	0.190809716
Pattern 28_MBAC_Lower2.5	0.000270826	0.02599823	0.06017193	0.00299911	0.01995031	0.02654007	0.102411061
Pattern 29_MBAC_Mean	0.002349127	0.04471508	0.14523701	0.01595673	0.03144414	0.03712666	0.134796547
Pattern 29_MBAC_Upper97.5	0.010960245	0.06785903	0.19566373	0.03425204	0.05648124	0.06385098	0.181732061
Pattern 29_MBAC_Lower2.5	-0.003120736	0.02510229	0.09801452	0.00224862	0.0162663	0.01802251	0.093009898
Pattern 30_MBAC_Mean	0.00048419	0.04537934	0.14191653	0.00785806	0.03085491	0.04606705	0.121838404
Pattern 30_MBAC_Upper97.5	0.006533841	0.0699897	0.18547671	0.02135042	0.04978149	0.07868221	0.171827133
Pattern 30_MBAC_Lower2.5	-0.002973455	0.01931793	0.09894944	-0.0023819	0.00888419	0.02231897	0.076188447
Pattern 31_MBAC_Mean	0.004194409	0.04632358	0.1313594	0.01415953	0.02587645	0.06828253	0.125245659
Pattern 31_MBAC_Upper97.5	0.012213804	0.07555528	0.17538343	0.0307121	0.04777625	0.09874717	0.178172131
Pattern 31_MBAC_Lower2.5	-0.002066094	0.02016579	0.09019512	0.00119739	0.01041512	0.03705914	0.07387403
Pattern 32_MBAC_Mean	0.004844336	0.04942323	0.13296243	0.01112424	0.03325	0.06103864	0.160879362
Pattern 32_MBAC_Upper97.5	0.014451642	0.07661423	0.17444742	0.02749596	0.06010666	0.08966788	0.204090569
Pattern 32_MBAC_Lower2.5	-0.001477784	0.02582002	0.0841272	0.00117057	0.01549928	0.04249215	0.119017872
Pattern 33_MBAC_Mean	0.005668067	0.04801858	0.15005981	0.01171219	0.03533437	0.05395713	0.161855777
Pattern 33_MBAC_Upper97.5	0.016660817	0.07367202	0.19387056	0.022743	0.05468885	0.08284772	0.204168474
Pattern 33_MBAC_Lower2.5	-0.002206764	0.022183	0.1020559	0.00077021	0.01232837	0.02281473	0.117799929

	tobacco	mental_health	bone	cardiac	physical	cognitive_Change	alcohol_Change
Pattern 1_MBAC_Mean	0.04182568	0.148739062	0.01553358	0.05042524	0.02521962	0.075489308	0.0162711
Pattern 1_MBAC_Upper97.5	0.07313089	0.193752837	0.03702117	0.0833727	0.04618168	0.116160396	0.038974554
Pattern 1_MBAC_Lower2.5	0.01748647	0.11147534	0.00081688	0.02560924	0.00811954	0.03915668	-0.000395244
Pattern 2_MBAC_Mean	0.02594399	0.13696999	0.01311309	0.0347575	0.02808316	0.094350577	0.023213568
Pattern 2_MBAC_Upper97.5	0.04978016	0.180417369	0.02840848	0.06031784	0.05027295	0.131329305	0.041658607
Pattern 2_MBAC_Lower2.5	0.00724405	0.089389278	0.00138315	0.01688789	0.01120455	0.063167308	0.004692695
Pattern 3_MBAC_Mean	0.04354372	0.128892345	0.01526941	0.02951629	0.03663252	0.086943436	0.043873786
Pattern 3_MBAC_Upper97.5	0.07473364	0.175666288	0.03265488	0.05295971	0.06033469	0.122986313	0.068680628
Pattern 3_MBAC_Lower2.5	0.0221675	0.087988943	0.00107958	0.01071436	0.01588167	0.052738259	0.020282239
Pattern 4_MBAC_Mean	0.02384567	0.164147071	0.01208874	0.03925268	0.02653494	0.095569083	0.012733766
Pattern 4_MBAC_Upper97.5	0.04492801	0.220656855	0.02912433	0.06901053	0.04738583	0.134987736	0.031176752
Pattern 4_MBAC_Lower2.5	0.00587183	0.108296039	-0.0012945	0.01557901	0.00498475	0.063322087	0.00052484
Pattern 5_MBAC_Mean	0.05871535	0.12175212	0.01720135	0.04723279	0.0316371	0.080725406	0.019340208
Pattern 5_MBAC_Upper97.5	0.09008733	0.158992095	0.03266601	0.07281225	0.05736184	0.111505808	0.039424834
Pattern 5_MBAC_Lower2.5	0.0298688	0.074761684	0.0010259	0.02095556	0.01409188	0.044383716	0.004894858
Pattern 6_MBAC_Mean	0.04087014	0.144078291	0.02447562	0.05735912	0.03793394	0.091124043	0.021827802
Pattern 6_MBAC_Upper97.5	0.06934908	0.195465612	0.04465576	0.0882807	0.06489346	0.120679496	0.041532187
Pattern 6_MBAC_Lower2.5	0.01442787	0.096545921	0.00758597	0.02531551	0.01488359	0.060047822	0.004808221
Pattern 7_MBAC_Mean	0.03208818	0.150964776	0.01533279	0.04182841	0.01920026	0.085824838	0.013596236
Pattern 7_MBAC_Upper97.5	0.06203463	0.211226324	0.03655241	0.0625834	0.04173634	0.124095426	0.029063616
Pattern 7_MBAC_Lower2.5	0.0074161	0.109881319	0.0020213	0.02157572	0.00152732	0.051570278	0.001134422
Pattern 8_MBAC_Mean	0.0343419	0.151706896	0.01500427	0.03338032	0.03197722	0.089029088	0.027716045
Pattern 8_MBAC_Upper97.5	0.05933941	0.200461913	0.0336417	0.05415887	0.05984216	0.130369987	0.048141703
Pattern 8_MBAC_Lower2.5	0.0144873	0.111131148	0.00091924	0.01343006	0.01129226	0.051506153	0.011153159
Pattern 9_MBAC_Mean	0.04362373	0.134920534	0.0108232	0.04681683	0.0254141	0.082325032	0.0261163
Pattern 9_MBAC_Upper97.5	0.07109021	0.181552593	0.02373555	0.07562139	0.04595556	0.11332851	0.049946443
Pattern 9_MBAC_Lower2.5	0.02228495	0.091386152	0.00067101	0.02393813	0.00785826	0.051507045	0.007776698
Pattern 10_MBAC_Mean	0.02517144	0.136848248	0.01223585	0.03679344	0.02945221	0.094398126	0.018955049
Pattern 10_MBAC_Upper97.5	0.05157822	0.17530112	0.02717955	0.06310218	0.05519502	0.134072908	0.039332699
Pattern 10_MBAC_Lower2.5	0.00332855	0.092329402	0.00121901	0.01618976	0.0113592	0.056761117	0.002467594
Pattern 11_MBAC_Mean	0.02997814	0.139831022	0.01181235	0.02635499	0.03815474	0.08989329	0.022682113
Pattern 11_MBAC_Upper97.5	0.05297749	0.184003902	0.02957216	0.04765323	0.06228881	0.124237356	0.044709062
Pattern 11_MBAC_Lower2.5	0.0133157	0.101020156	-0.0018932	0.00747021	0.02092859	0.061075022	0.006476118

	tobacco	mental_health	bone	cardiac	physical	cognitive_Change	alcohol_Change
Pattern 12_MBAC_Mean	0.03915895	0.149572999	0.01203776	0.03283243	0.0299825	0.075175033	0.009188875
Pattern 12_MBAC_Upper97.5	0.06323199	0.206990625	0.02918316	0.05791119	0.05317035	0.120684378	0.02839146
Pattern 12_MBAC_Lower2.5	0.0170507	0.10045786	-0.0016004	0.01317769	0.01080157	0.044080667	-0.003959937
Pattern 13_MBAC_Mean	0.03202225	0.117990357	0.01319925	0.04467051	0.02727189	0.075527709	0.018261925
Pattern 13_MBAC_Upper97.5	0.0535032	0.162002068	0.0286656	0.07133833	0.05221062	0.110233813	0.037272741
Pattern 13_MBAC_Lower2.5	0.01154449	0.078184315	0.00230098	0.02347077	0.01121072	0.041800038	0.002988066
Pattern 14_MBAC_Mean	0.0406683	0.155556492	0.01350081	0.03989458	0.02841551	0.075818692	0.01886516
Pattern 14_MBAC_Upper97.5	0.06176025	0.209967852	0.03326699	0.06139552	0.0592322	0.113449798	0.042347296
Pattern 14_MBAC_Lower2.5	0.02267937	0.110422652	0.00038986	0.02048244	0.00575216	0.038004321	0.00291868
Pattern 15_MBAC_Mean	0.03103163	0.136073886	0.01385787	0.0495774	0.03291175	0.076600996	0.013416199
Pattern 15_MBAC_Upper97.5	0.06219294	0.191353398	0.03146705	0.07333857	0.06578827	0.113416937	0.028051175
Pattern 15_MBAC_Lower2.5	0.01214291	0.086602941	0.00184884	0.02583209	0.00878841	0.040058709	-0.001279912
Pattern 16_MBAC_Mean	0.04623496	0.150340684	0.02037077	0.04182215	0.02802053	0.091243067	0.021778438
Pattern 16_MBAC_Upper97.5	0.07943652	0.195611809	0.04184401	0.0619443	0.04686911	0.138590894	0.037734267
Pattern 16_MBAC_Lower2.5	0.02185966	0.109349112	0.00802392	0.02067662	0.01146042	0.056703921	0.00676611
Pattern 17_MBAC_Mean	0.035441	0.144156386	0.01205163	0.04148119	0.02871082	0.073444373	0.015548028
Pattern 17_MBAC_Upper97.5	0.056773	0.203160819	0.02664935	0.08058159	0.0493751	0.107341216	0.031503635
Pattern 17_MBAC_Lower2.5	0.01454723	0.100608128	-0.0010872	0.01735102	0.00704039	0.039096974	0.003412419
Pattern 18_MBAC_Mean	0.03810047	0.145249822	0.01110737	0.04423866	0.02585077	0.072841692	0.023794997
Pattern 18_MBAC_Upper97.5	0.07308133	0.191680415	0.02936449	0.06832847	0.04658313	0.111634133	0.046295059
Pattern 18_MBAC_Lower2.5	0.01537106	0.099752304	-0.0021013	0.02362635	0.00693719	0.045244845	0.007049714
Pattern 19_MBAC_Mean	0.03952894	0.150568045	0.01952686	0.04455537	0.04194931	0.081564599	0.013114302
Pattern 19_MBAC_Upper97.5	0.06256408	0.200765642	0.04449027	0.07821178	0.06526004	0.119285198	0.034542216
Pattern 19_MBAC_Lower2.5	0.02131249	0.105129321	0.00365273	0.02088223	0.02087304	0.039334888	-0.000291818
Pattern 20_MBAC_Mean	0.04719661	0.14562237	0.01636488	0.04823187	0.03060522	0.081873443	0.024640891
Pattern 20_MBAC_Upper97.5	0.07376694	0.194853543	0.03350435	0.08247043	0.05260542	0.127480738	0.04164905
Pattern 20_MBAC_Lower2.5	0.02478661	0.10411033	0.0027166	0.02414327	0.00956828	0.046962272	0.009881055
Pattern 21_MBAC_Mean	0.04615004	0.162142703	0.02237154	0.04633706	0.04024515	0.081093889	0.018370592
Pattern 21_MBAC_Upper97.5	0.07280035	0.218663739	0.04436008	0.0778095	0.06034742	0.124023175	0.036465301
Pattern 21_MBAC_Lower2.5	0.01881177	0.106481426	0.00744947	0.02278991	0.02230491	0.045997056	0.005237494
Pattern 22_MBAC_Mean	0.0326371	0.138596481	0.01363102	0.03603062	0.03163377	0.065092987	0.023862854
Pattern 22_MBAC_Upper97.5	0.06212387	0.174555864	0.0313178	0.05776632	0.05438496	0.10186283	0.041894523
Pattern 22_MBAC_Lower2.5	0.01055396	0.096203471	-0.0013625	0.01589298	0.01060406	0.033382299	0.007785719

	tobacco	mental_health	bone	cardiac	physical	cognitive_Change	alcohol_Change
Pattern 23_MBAC_Mean	0.03213126	0.11983884	0.01567259	0.03298845	0.02559993	0.088250474	0.027640557
Pattern 23_MBAC_Upper97.5	0.05267368	0.170457312	0.03273634	0.06051197	0.04946125	0.120119066	0.046244271
Pattern 23_MBAC_Lower2.5	0.01114363	0.080293104	0.00307281	0.01067214	0.00621973	0.052573988	0.010142447
Pattern 24_MBAC_Mean	0.04446069	0.117891022	0.00956116	0.03692575	0.02462528	0.071466198	0.017116209
Pattern 24_MBAC_Upper97.5	0.0776453	0.165825252	0.02190436	0.06515627	0.04723649	0.107252968	0.037072565
Pattern 24_MBAC_Lower2.5	0.02062459	0.072055314	-0.0015959	0.01363174	0.00218782	0.039866439	0.003295557
Pattern 25_MBAC_Mean	0.0497278	0.120927715	0.01904876	0.04464641	0.0457032	0.09677652	0.024321161
Pattern 25_MBAC_Upper97.5	0.07582812	0.173689941	0.03322057	0.07046609	0.08360077	0.13611762	0.048668915
Pattern 25_MBAC_Lower2.5	0.02732522	0.084062197	0.00503579	0.02188457	0.01799881	0.064213888	0.00692831
Pattern 26_MBAC_Mean	0.0454915	0.163100028	0.01784111	0.0394217	0.04397209	0.102867328	0.02616511
Pattern 26_MBAC_Upper97.5	0.07396356	0.212630854	0.03546628	0.06897734	0.07075318	0.153406757	0.044234935
Pattern 26_MBAC_Lower2.5	0.0194386	0.126136058	0.00224898	0.01515768	0.02289027	0.06950454	0.009980323
Pattern 27_MBAC_Mean	0.0369868	0.144458832	0.02028465	0.03512377	0.04857049	0.089532609	0.020430865
Pattern 27_MBAC_Upper97.5	0.06138678	0.193430579	0.03433136	0.06308497	0.08869176	0.130280926	0.040600898
Pattern 27_MBAC_Lower2.5	0.01774359	0.104379221	0.00644986	0.01351284	0.02240856	0.060439505	0.004997298
Pattern 28_MBAC_Mean	0.03373256	0.116378284	0.02327051	0.05034243	0.02938396	0.075633632	0.026562016
Pattern 28_MBAC_Upper97.5	0.05596474	0.163600557	0.04553888	0.07827537	0.05434233	0.105518389	0.044781792
Pattern 28_MBAC_Lower2.5	0.01316976	0.075698263	0.0044202	0.02732318	0.00959704	0.043509317	0.008598158
Pattern 29_MBAC_Mean	0.03741997	0.123683234	0.01194804	0.0308323	0.02692512	0.076204075	0.01703142
Pattern 29_MBAC_Upper97.5	0.06095653	0.174026678	0.03134507	0.05799622	0.05224422	0.104688073	0.042346165
Pattern 29_MBAC_Lower2.5	0.01425007	0.078668003	-0.0003799	0.01023993	0.00558863	0.050821392	-9.39E-05
Pattern 30_MBAC_Mean	0.02580184	0.148390027	0.01589604	0.0314544	0.02438704	0.078145186	0.012288225
Pattern 30_MBAC_Upper97.5	0.04634519	0.185588619	0.03451174	0.05722281	0.04880432	0.107310712	0.030249011
Pattern 30_MBAC_Lower2.5	0.00367909	0.104713776	0.00408298	0.00966517	0.00638272	0.056634235	-0.002827315
Pattern 31_MBAC_Mean	0.03451923	0.165611801	0.0179891	0.04404467	0.03935963	0.085288915	0.01111412
Pattern 31_MBAC_Upper97.5	0.05973936	0.216947848	0.03366182	0.07955125	0.07901742	0.114418989	0.02802631
Pattern 31_MBAC_Lower2.5	0.01501798	0.124181343	0.0053208	0.02052815	0.0153397	0.048479428	-0.000860211
Pattern 32_MBAC_Mean	0.03762956	0.160165972	0.01133621	0.03570588	0.04452078	0.088971037	0.018511604
Pattern 32_MBAC_Upper97.5	0.06277663	0.200895886	0.02855018	0.0614319	0.07248175	0.128665656	0.039178097
Pattern 32_MBAC_Lower2.5	0.01984752	0.119400278	-0.0004437	0.0134818	0.02500007	0.054644119	0.002611036
Pattern 33_MBAC_Mean	0.03328064	0.153274726	0.01141046	0.03259393	0.03050568	0.069534913	0.009365911
Pattern 33_MBAC_Upper97.5	0.05925889	0.190534045	0.02660376	0.05690958	0.05907353	0.104671004	0.023999714
Pattern 33_MBAC_Lower2.5	0.01547406	0.111760494	-0.0020737	0.01094288	0.01219303	0.036276976	-0.002370604

	exercise_Change	lifestyle_general_Change	tobacco_Change	mental_health_Change	bone_Change
Pattern 1_MBAC_Mean	0.044864087	0.06368111	0.012994215	0.026424362	0.006954766
Pattern 1_MBAC_Upper97.5	0.074067035	0.099948189	0.029982084	0.049955861	0.01919962
Pattern 1_MBAC_Lower2.5	0.023310513	0.034467843	0.001789703	0.007684118	-0.001060677
Pattern 2_MBAC_Mean	0.046441126	0.053008803	0.010547307	0.023914163	0.001625425
Pattern 2_MBAC_Upper97.5	0.071072555	0.094528258	0.024219407	0.04431346	0.009295139
Pattern 2_MBAC_Lower2.5	0.025451735	0.027619579	-0.00130255	0.006533781	-0.00524312
Pattern 3_MBAC_Mean	0.040816723	0.070559727	0.014590075	0.02418384	0.006647172
Pattern 3_MBAC_Upper97.5	0.067136947	0.110713331	0.028187918	0.048038024	0.021410419
Pattern 3_MBAC_Lower2.5	0.022659732	0.037731335	0.001876448	0.005076771	-0.002138702
Pattern 4_MBAC_Mean	0.045346485	0.064201682	0.010692062	0.024128002	0.015172915
Pattern 4_MBAC_Upper97.5	0.074229463	0.097124343	0.023681931	0.046340924	0.041478208
Pattern 4_MBAC_Lower2.5	0.021765641	0.03676513	-0.000751527	0.004689396	-0.001379395
Pattern 5_MBAC_Mean	0.040915158	0.061438663	0.019444263	0.01987806	0.009699633
Pattern 5_MBAC_Upper97.5	0.06716885	0.092775842	0.035063628	0.042116978	0.021922006
Pattern 5_MBAC_Lower2.5	0.016850413	0.031701175	0.003526512	0.00467453	-0.000741476
Pattern 6_MBAC_Mean	0.038661483	0.082014586	0.014846426	0.025213853	0.010592771
Pattern 6_MBAC_Upper97.5	0.065737157	0.12171253	0.032116884	0.04611711	0.027817874
Pattern 6_MBAC_Lower2.5	0.019191046	0.053315447	-0.000259674	0.007278951	-0.000787335
Pattern 7_MBAC_Mean	0.024547604	0.074325945	0.015131465	0.025786231	0.008419236
Pattern 7_MBAC_Upper97.5	0.044758541	0.110000635	0.034094945	0.047867972	0.023037694
Pattern 7_MBAC_Lower2.5	0.005425254	0.042525019	0.002387787	0.006188149	-0.001579037
Pattern 8_MBAC_Mean	0.039283372	0.075063276	0.017491077	0.02426453	0.011098624
Pattern 8_MBAC_Upper97.5	0.067518054	0.109356437	0.032628347	0.048095618	0.027458003
Pattern 8_MBAC_Lower2.5	0.015943364	0.040800154	0.001583158	0.005200175	0.001376521
Pattern 9_MBAC_Mean	0.050501228	0.077177867	0.004348241	0.017801121	0.010176074
Pattern 9_MBAC_Upper97.5	0.075264099	0.109699245	0.014130149	0.039390314	0.02727378
Pattern 9_MBAC_Lower2.5	0.029425418	0.044741148	-0.003510434	0.00153938	-0.001352659
Pattern 10_MBAC_Mean	0.035711195	0.076235444	0.011851334	0.031996901	0.003324209
Pattern 10_MBAC_Upper97.5	0.060877402	0.113446453	0.026615597	0.053651295	0.015191438
Pattern 10_MBAC_Lower2.5	0.011491022	0.045746744	-0.000135375	0.01055387	-0.005140428
Pattern 11_MBAC_Mean	0.038135144	0.068448717	0.013547728	0.020242763	0.003081162
Pattern 11_MBAC_Upper97.5	0.063370239	0.098248481	0.02991035	0.036038609	0.016941269
Pattern 11_MBAC_Lower2.5	0.012853244	0.035715517	0.000849675	0.00636675	-0.005250097

	exercise_Change	lifestyle_general_Change	tobacco_Change	mental_health_Change	bone_Change
Pattern 12_MBAC_Mean	0.03021315	0.07356646	0.011857673	0.02718389	0.004892103
Pattern 12_MBAC_Upper97.5	0.05565044	0.117409436	0.031786742	0.055202983	0.01633329
Pattern 12_MBAC_Lower2.5	0.008970963	0.040207097	-0.001866095	0.008304523	-0.002773899
Pattern 13_MBAC_Mean	0.046980042	0.085003494	0.012681657	0.027875539	0.009220165
Pattern 13_MBAC_Upper97.5	0.071670818	0.119609453	0.022773389	0.050740765	0.020670302
Pattern 13_MBAC_Lower2.5	0.02445465	0.057531698	0.002405849	0.009211996	-0.001610047
Pattern 14_MBAC_Mean	0.034900759	0.086282313	0.010797635	0.02688673	0.01105486
Pattern 14_MBAC_Upper97.5	0.063552067	0.117748599	0.024913115	0.052101275	0.025931046
Pattern 14_MBAC_Lower2.5	0.015283032	0.057131065	0.001464988	0.011316049	0.000661223
Pattern 15_MBAC_Mean	0.032083362	0.078545412	0.011412259	0.026754805	0.007667113
Pattern 15_MBAC_Upper97.5	0.058704954	0.108117764	0.025922028	0.049529749	0.022208514
Pattern 15_MBAC_Lower2.5	0.011700675	0.049629351	0.002317162	0.006642804	-0.000629858
Pattern 16_MBAC_Mean	0.045883469	0.070847842	0.013841076	0.039117565	0.009620835
Pattern 16_MBAC_Upper97.5	0.076002967	0.111972643	0.028188101	0.068801399	0.02387808
Pattern 16_MBAC_Lower2.5	0.021950258	0.036382739	0.002170503	0.018107539	-0.001917713
Pattern 17_MBAC_Mean	0.0456132	0.077738879	0.01570238	0.022010338	0.009506137
Pattern 17_MBAC_Upper97.5	0.071941701	0.104250887	0.03231718	0.042930006	0.022711722
Pattern 17_MBAC_Lower2.5	0.024701419	0.044591869	0.000618118	0.000828157	-0.001957573
Pattern 18_MBAC_Mean	0.045946929	0.090767121	0.011289045	0.033661616	0.002588433
Pattern 18_MBAC_Upper97.5	0.072274732	0.121322318	0.024085384	0.062281794	0.013869046
Pattern 18_MBAC_Lower2.5	0.024808722	0.055846845	0.000634307	0.012386298	-0.00462523
Pattern 19_MBAC_Mean	0.043212597	0.083526601	0.015738655	0.042037922	0.009775869
Pattern 19_MBAC_Upper97.5	0.074145644	0.111838154	0.031331832	0.068936498	0.024356625
Pattern 19_MBAC_Lower2.5	0.022693869	0.054305601	0.001983624	0.020151071	-0.00099294
Pattern 20_MBAC_Mean	0.049965425	0.106819925	0.012702062	0.030366473	0.012125672
Pattern 20_MBAC_Upper97.5	0.076237493	0.144344177	0.026289587	0.052400425	0.026669186
Pattern 20_MBAC_Lower2.5	0.027501086	0.073394679	0.001025709	0.009073289	-0.000599605
Pattern 21_MBAC_Mean	0.042870617	0.07024193	0.018864101	0.03862748	0.013129094
Pattern 21_MBAC_Upper97.5	0.066915047	0.1074189	0.038552396	0.05700257	0.029383502
Pattern 21_MBAC_Lower2.5	0.02104356	0.036436044	0.004726687	0.0195628	0.000407157
Pattern 22_MBAC_Mean	0.041576511	0.084744421	0.011937061	0.026766119	0.008116907
Pattern 22_MBAC_Upper97.5	0.068234489	0.117360397	0.027777347	0.051682156	0.023382627
Pattern 22_MBAC_Lower2.5	0.015848194	0.050575631	-0.002455609	0.008035651	-0.001492792

	exercise_Change	lifestyle_general_Change	tobacco_Change	mental_health_Change	bone_Change
Pattern 23_MBAC_Mean	0.035855169	0.071736692	0.012112079	0.026592027	0.008948658
Pattern 23_MBAC_Upper97.5	0.060110545	0.105027	0.024546524	0.052031298	0.022250378
Pattern 23_MBAC_Lower2.5	0.011626528	0.044178542	-0.00115371	0.007044338	-0.001353684
Pattern 24_MBAC_Mean	0.029635552	0.080981074	0.012378175	0.015611795	0.001791257
Pattern 24_MBAC_Upper97.5	0.054399343	0.124708548	0.026838594	0.03651383	0.010378283
Pattern 24_MBAC_Lower2.5	0.007187235	0.044954039	-0.000653087	0.002323822	-0.004751778
Pattern 25_MBAC_Mean	0.043605672	0.091049434	0.016974987	0.029363894	0.01630024
Pattern 25_MBAC_Upper97.5	0.069559485	0.124410053	0.03350401	0.052364406	0.033109318
Pattern 25_MBAC_Lower2.5	0.019061555	0.054144679	0.003257968	0.008260238	0.003330857
Pattern 26_MBAC_Mean	0.035078808	0.070402755	0.021338797	0.043314388	0.012746215
Pattern 26_MBAC_Upper97.5	0.058580428	0.103697633	0.041354293	0.069501089	0.031164553
Pattern 26_MBAC_Lower2.5	0.017625494	0.04353161	0.004946349	0.022080078	0.0003836
Pattern 27_MBAC_Mean	0.052927958	0.064611102	0.014369043	0.039182322	0.012180299
Pattern 27_MBAC_Upper97.5	0.084515425	0.09532071	0.031485972	0.06802183	0.024774574
Pattern 27_MBAC_Lower2.5	0.03268943	0.035997881	0.001647897	0.017283146	0.002606127
Pattern 28_MBAC_Mean	0.040808349	0.084581689	0.024774366	0.024630999	0.016006045
Pattern 28_MBAC_Upper97.5	0.065532642	0.120377546	0.042111233	0.04806972	0.031577116
Pattern 28_MBAC_Lower2.5	0.019790079	0.05595145	0.007905396	0.007031485	0.005993491
Pattern 29_MBAC_Mean	0.037090055	0.056427172	0.019100306	0.02267391	0.023528242
Pattern 29_MBAC_Upper97.5	0.060230416	0.087321896	0.036971651	0.042396955	0.034914899
Pattern 29_MBAC_Lower2.5	0.012433949	0.024755681	0.002031521	0.006951711	0.006674306
Pattern 30_MBAC_Mean	0.041030209	0.058263693	0.014431553	0.021262408	0.009390858
Pattern 30_MBAC_Upper97.5	0.064986469	0.086681275	0.029902115	0.04426206	0.020855474
Pattern 30_MBAC_Lower2.5	0.021140504	0.027974197	0.00236335	0.004258493	-0.001569539
Pattern 31_MBAC_Mean	0.046648867	0.066976984	0.008410159	0.022817557	0.007334458
Pattern 31_MBAC_Upper97.5	0.076756367	0.102310486	0.020695028	0.049010689	0.020144432
Pattern 31_MBAC_Lower2.5	0.023832993	0.032088232	-0.00270908	0.003176064	-0.002267669
Pattern 32_MBAC_Mean	0.040863128	0.067743035	0.019809274	0.026242384	0.007093182
Pattern 32_MBAC_Upper97.5	0.061157901	0.103778707	0.041123798	0.046526961	0.016873942
Pattern 32_MBAC_Lower2.5	0.019907432	0.038332574	0.00417181	0.007774566	-0.002899682
Pattern 33_MBAC_Mean	0.037502474	0.082316215	0.014160304	0.03075692	0.00715931
Pattern 33_MBAC_Upper97.5	0.06142409	0.115134597	0.029214639	0.053435232	0.018331912
Pattern 33_MBAC_Lower2.5	0.013656324	0.047157039	-0.000215117	0.010676067	-0.001443221