lme mods

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Packages & Setup

```
# install.packages(c("tidyverse", "purrr", "R.matlab", "readxl", "dplyr"))
library(readxl);
library(purrr)
library(tidyverse);
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr 1.1.4 v readr 2.1.5
## v forcats 1.0.0 v stringr 1.5.1
## v ggplot2 3.5.0
                       v tibble
                                   3.2.1
## v lubridate 1.9.3
                                   1.3.1
                       v tidyr
## -- Conflicts -----
                                          ## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
library(tibble)
library(knitr);
library(gtsummary)
library(kableExtra)
## Attaching package: 'kableExtra'
## The following object is masked from 'package:dplyr':
##
##
      group_rows
library(lme4)
## Loading required package: Matrix
## Attaching package: 'Matrix'
## The following objects are masked from 'package:tidyr':
##
      expand, pack, unpack
##
```

GTSUMMARY THEME

```
# my_theme <-
  list(
#
      "tbl_summary-str:default_con_type" = "continuous2",
      "tbl_summary-str:continuous_stat" = c(
#
#
        "\{median\} (\{p25\} - \{p75\})",
        "{mean} ({sd})",
#
#
        "{min} - {max}"
#
#
     "tbl_summary-str:categorical_stat" = "{n} / {N} ({p}%)",
#
      "style number-arg:big.mark" = "",
#
      "tbl_summary-fn:percent_fun" = function(x) style_percent(x, digits = 3)
   )
#
# my_theme <-
  list()
# qtsummary::set_qtsummary_theme(my_theme)
gtsummary::set_gtsummary_theme(theme_gtsummary_journal("jama"))
## Setting theme 'JAMA'
## Setting theme 'JAMA'
# reset qtsummary theme()
```

load table

get unique entries

```
clusters = unique(eegt$cluster_id);
subjects = unique(eegt$subj_char);
groups = unique(eegt$group_char);
kin_measures = c('mean_APexc_COV', 'mean_APexc_mean', 'mean_MLexc_COV', 'mean_MLexc_mean', 'mean_StepDur','eeg_measures = c('theta_avg_power', 'alpha_avg_power', 'beta_avg_power', 'aperiodic_exp', 'aperiodic_offset
```

get speeds only

```
eegt <- filter_at(eegt,vars('cond_char'), any_vars(. %in% c('0.25','0.5','0.75','1.0')))
flat_speeds = unique(eegt$cond_char)
eegt$cond_char <- as.numeric(eegt$cond_char)
eegt$speed_cond_num <- as.numeric(eegt$cond_char)
eegt <- mutate(eegt,across(c('subj_char'), factor))</pre>
```

Changes in	mean_APexc_COV	for Cluster:	3						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.98 (0.62 to 1.3)	< 0.001	< 0.001	1.1 (0.23 to 2.1)	0.014	0.055	0.91 (0.39 to 1.4)	< 0.001	0.002
mean_APexc_COV	-0.02 (-0.03 to 0.00)	0.047	0.051	0.01 (-0.02 to 0.03)	0.61	0.84	0.00 (-0.01 to 0.02)	0.62	0.73
group_char		0.002	0.004		0.81	0.84		0.33	0.66
H1000's	_			_			_		
H2000's	-0.96 (-1.5 to -0.41)			0.33 (-1.0 to 1.7)			0.45 (-0.31 to 1.2)		
H3000's	-0.27 (-0.81 to 0.26)			0.41 (-0.93 to 1.8)			-0.12 (-0.88 to 0.64)		
mean_APexc_COV * group_char		0.051	0.051		0.84	0.84		0.73	0.73
mean_APexc_COV * H2000's	0.03 (0.00 to 0.05)			0.00 (-0.03 to 0.03)			-0.01 (-0.03 to 0.02)		
mean_APexc_COV * H3000's	0.01 (-0.01 to 0.03)			-0.01 (-0.04 to 0.02)			0.00 (-0.02 to 0.02)		
subj_char.sd(Intercept)	0.57 (NA to NA)			1.8 (NA to NA)			1.0 (NA to NA)		
Residual.sd Observation	0.23 (NA to NA)			0.37 (NA to NA)			0.23 (NA to NA)		

¹ CI = Confidence Interval

get terrains only (if applicable)

```
# eegt <- filter_at(eegt,vars('cond_char'), any_vars(. %in% c('flat','low','med','high')))
# eegt <- filter_at(eegt,vars('cond_char'), any_vars(. %in% c('high')))
# eegt$terr_ord_speed <- cut(eegt$speed_ms, 4, ordered = TRUE)</pre>
```

convert speeds to ordered & groups to factors

```
eegt <- mutate(eegt,across(c('group char'), factor))</pre>
eegt$speed_ord <- cut(eegt$cond_char, 4, ordered = TRUE)</pre>
eegt <- mutate(eegt,across(c('cond_char'), factor))</pre>
head(eegt)
## # A tibble: 6 x 139
     speed_ms subj_id subj_cl_ind subj_char comp_id design_id cond_id cond_char
##
##
        <dbl> <chr> <dbl> <fct>
                                              <dbl> <chr>
                                                               <chr>
                                                                       <fct>
## 1
         1.2 5
                                1 H1011
                                                   4 2
                                                               1
                                                                       0.25
## 2
         0.69 8
                                2 H1017
                                                   3 2
                                                                       0.25
                                                               1
         0.51 10
                                                   4 2
                                                                       0.25
## 3
                                3 H1019
                                                               1
                                                   6 2
## 4
         0.76 11
                                4 H1020
                                                               1
                                                                       0.25
## 5
        0.59 12
                                5 H1022
                                                   6 2
                                                               1
                                                                       0.25
## 6
         0.8 15
                                6 H1027
                                                   3 2
                                                                       0.25
## # i 131 more variables: group_id <chr>, cluster_id <chr>, aperiodic_exp <dbl>,
       aperiodic_offset <dbl>, central_freq_1 <dbl>, central_freq_2 <dbl>,
## #
## #
       central_freq_3 <dbl>, power_1 <dbl>, power_2 <dbl>, power_3 <dbl>,
## #
       r_squared <dbl>, theta_avg_power <dbl>, alpha_avg_power <dbl>,
## #
       beta avg power <dbl>, theta 1 <dbl>, theta 2 <dbl>, theta 3 <dbl>,
## #
       theta_4 <dbl>, theta_5 <dbl>, theta_6 <dbl>, theta_7 <dbl>, theta_8 <dbl>,
## #
       'alpha_ 1' <dbl>, 'alpha_ 2' <dbl>, 'alpha_ 3' <dbl>, 'alpha_ 4' <dbl>, ...
eegt$group_speed_code = paste(eegt$group_char,eegt$cond_char,sep="_")
```

LME EEG ~ 1+kin+group+kin:group

² False discovery rate correction for multiple testing

Changes in	mean_APexc_mean	for Cluster:	3						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.95 (0.63 to 1.3)	< 0.001	< 0.001	1.0 (0.15 to 1.9)	0.022	0.087	0.79 (0.31 to 1.3)	0.001	0.005
mean_APexc_mean	-4.1 (-7.5 to -0.65)	0.020	0.039	4.5 (-0.83 to 9.7)	0.10	0.20	3.3 (0.04 to 6.5)	0.047	0.084
group_char		0.037	0.049		0.80	0.80		0.95	0.95
H1000's	_			_			_		
H2000's	-0.63 (-1.1 to -0.15)			0.03 (-1.2 to 1.3)			0.09 (-0.63 to 0.80)		
H3000's	-0.29 (-0.75 to 0.17)			0.39 (-0.87 to 1.6)			-0.02 (-0.72 to 0.68)		
mean_APexc_mean * group_char		0.84	0.84		0.17	0.23		0.063	0.084
mean_APexc_mean * H2000's	1.8 (-4.3 to 7.9)			8.3 (-1.2 to 18)			6.9 (1.1 to 13)		
mean_APexc_mean * H3000's	0.95 (-4.8 to 6.7)			-0.76 (-9.7 to 8.2)			1.3 (-4.2 to 6.7)		
subj_char.sd(Intercept)	0.57 (NA to NA)			1.8 (NA to NA)			1.0 (NA to NA)		
Residual.sdObservation	0.23 (NA to NA)			0.36 (NA to NA)			0.22 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Changes in	mean_MLexc_COV	for Cluster:	3						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.81 (0.46 to 1.2)	< 0.001	< 0.001	1.5 (0.58 to 2.4)	0.001	0.005	1.1 (0.64 to 1.6)	< 0.001	< 0.001
mean_MLexc_COV	-0.01 (-0.02 to 0.01)	0.48	0.48	-0.02 (-0.04 to 0.01)	0.25	0.51	-0.01 (-0.03 to 0.00)	0.16	0.32
group_char		0.021	0.042		0.92	0.92		0.56	0.71
H1000's	_			_			_		
H2000's	-0.68 (-1.2 to -0.20)			0.21 (-1.1 to 1.5)			0.37 (-0.34 to 1.1)		
H3000's	-0.39 (-0.87 to 0.10)			0.24 (-1.0 to 1.5)			0.07 (-0.64 to 0.79)		
mean_MLexc_COV * group_char		0.40	0.48		0.80	0.92		0.71	0.71
mean_MLexc_COV * H2000's	0.01 (-0.01 to 0.03)			0.01 (-0.02 to 0.05)			0.00 (-0.02 to 0.02)		
mean_MLexc_COV * H3000's	0.01 (-0.01 to 0.04)			0.00 (-0.03 to 0.04)			-0.01 (-0.03 to 0.01)		
subj_char.sd(Intercept)	0.56 (NA to NA)			1.8 (NA to NA)			1.0 (NA to NA)		
Residual.sdObservation	0.24 (NA to NA)			0.37 (NA to NA)			0.23 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	3						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.90 (0.58 to 1.2)	< 0.001	< 0.001	1.0 (0.15 to 1.9)	0.021	0.085	0.72 (0.24 to 1.2)	0.003	0.010
mean_MLexc_mean	-2.1 (-4.4 to 0.16)	0.069	0.091	2.9 (-0.69 to 6.5)	0.11	0.23	3.1 (0.94 to 5.2)	0.005	0.010
group_char		0.044	0.088		0.81	0.84		0.44	0.59
H1000's	_			_			_		
H2000's	-0.57 (-1.0 to -0.12)			0.33 (-0.92 to 1.6)			0.40 (-0.29 to 1.1)		
H3000's	-0.27 (-0.73 to 0.18)			0.38 (-0.88 to 1.6)			0.00 (-0.69 to 0.70)		
mean_MLexc_mean * group_char		0.76	0.76		0.84	0.84		0.89	0.89
mean_MLexc_mean * H2000's	0.92 (-1.9 to 3.8)			0.13 (-4.4 to 4.6)			-0.67 (-3.4 to 2.0)		
mean_MLexc_mean * H3000's	1.1 (-1.9 to 4.1)			-1.1 (-5.8 to 3.7)			-0.36 (-3.2 to 2.5)		
subj_char.sd(Intercept)	0.57 (NA to NA)			1.8 (NA to NA)			1.0 (NA to NA)		
Residual.sdObservation	0.23 (NA to NA)			0.36 (NA to NA)			0.22 (NA to NA)		

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Changes in	mean StepDur	for Cluster:	3						
Changes in		Theta	J	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.90 (0.61 to 1.2)	< 0.001	< 0.001	1.1 (0.23 to 1.9)	0.012	0.049	0.83 (0.37 to 1.3)	< 0.001	0.002
mean_StepDur	-0.19 (-0.34 to -0.04)	0.015	0.029	0.20 (-0.04 to 0.44)	0.10	0.16	0.15 (0.01 to 0.29)	0.040	0.054
group_char		0.030	0.040		0.98	0.98		0.26	0.26
H1000's	_			_			_		
H2000's	-0.57 (-1.0 to -0.12)			0.10 (-1.2 to 1.4)			0.21 (-0.49 to 0.90)		
H3000's	-0.04 (-0.51 to 0.44)			-0.01 (-1.3 to 1.3)			-0.41 (-1.1 to 0.30)		
mean_StepDur * group_char		0.33	0.33		0.12	0.16		0.004	0.008
mean_StepDur * H2000's	0.04 (-0.27 to 0.36)			0.40 (-0.09 to 0.89)			0.24 (-0.05 to 0.54)		
mean_StepDur * H3000's	-0.30 (-0.72 to 0.12)			0.53 (-0.13 to 1.2)			0.64 (0.24 to 1.0)		
subj_char.sd(Intercept)	0.57 (NA to NA)			1.8 (NA to NA)			1.0 (NA to NA)		
Residual.sdObservation	0.23 (NA to NA)			0.36 (NA to NA)			0.22 (NA to NA)		

			-						
Changes in	mean_UDexc_COV	for Cluster:	3						
	EEG	Theta	,	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.84 (0.56 to 1.1)	< 0.001	< 0.001	1.1 (0.28 to 1.9)	0.009	0.036	0.85 (0.39 to 1.3)	< 0.001	0.001
mean_UDexc_COV	-0.01 (-0.02 to 0.00)	0.057	0.076	0.01 (0.00 to 0.03)	0.15	0.31	0.01 (0.00 to 0.02)	0.050	0.10
group_char		0.033	0.065		0.87	0.96		0.44	0.58
H1000's	_			_			_		
H2000's	-0.57 (-0.99 to -0.14)			0.31 (-0.93 to 1.5)			0.34 (-0.35 to 1.0)		
H3000's	-0.21 (-0.64 to 0.22)			0.26 (-0.99 to 1.5)			-0.12 (-0.81 to 0.57)		
mean_UDexc_COV * group_char		0.81	0.81		0.96	0.96		0.77	0.77
mean_UDexc_COV * H2000's	0.01 (-0.01 to 0.02)			0.00 (-0.02 to 0.03)			0.00 (-0.01 to 0.02)		
mean_UDexc_COV * H3000's	0.00 (-0.01 to 0.02)			0.00 (-0.02 to 0.03)			0.01 (-0.01 to 0.02)		
subj_char.sd(Intercept)	0.57 (NA to NA)			1.8 (NA to NA)			1.0 (NA to NA)		
Residual.sdObservation	0.24 (NA to NA)			0.37 (NA to NA)			0.23 (NA to NA)		

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Changes in	mean_UDexc_mean	for Cluster:	3						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.64 (0.35 to 0.94)	< 0.001	< 0.001	1.4 (0.56 to 2.2)	0.001	0.004	1.2 (0.71 to 1.6)	< 0.001	< 0.001
mean_UDexc_mean	3.4 (-2.8 to 9.6)	0.29	0.38	-6.2 (-16 to 3.6)	0.21	0.43	-8.3 (-14 to -2.6)	0.004	0.009
group_char		0.056	0.11		0.84	0.99		0.50	0.67
H1000's	_			_			_		
H2000's	-0.53 (-0.96 to -0.10)			0.35 (-0.89 to 1.6)			0.38 (-0.30 to 1.1)		
H3000's	-0.24 (-0.67 to 0.19)			0.30 (-0.95 to 1.5)			0.05 (-0.63 to 0.74)		
mean_UDexc_mean * group_char		0.89	0.89		0.99	0.99		0.73	0.73
mean_UDexc_mean * H2000's	0.76 (-8.1 to 9.6)			0.88 (-13 to 15)			-0.47 (-8.6 to 7.7)		
mean_UDexc_mean * H3000's	2.1 (-6.7 to 11)			-0.14 (-14 to 14)			-3.0 (-11 to 5.1)		
subj_char.sd(Intercept)	0.57 (NA to NA)			1.8 (NA to NA)			1.0 (NA to NA)		
Residual.sdObservation	0.23 (NA to NA)			0.37 (NA to NA)			0.22 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	3						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.87 (0.60 to 1.2)	< 0.001	< 0.001	1.1 (0.28 to 1.9)	0.009	0.035	0.86 (0.40 to 1.3)	< 0.001	< 0.001
mean_StanceDur	-0.12 (-0.21 to -0.03)	0.011	0.022	0.11 (-0.03 to 0.26)	0.12	0.23	0.09 (0.01 to 0.18)	0.038	0.050
group_char		0.025	0.033		0.96	0.96		0.28	0.28
H1000's	_			_			_		
H2000's	-0.56 (-0.99 to -0.14)			0.18 (-1.1 to 1.4)			0.26 (-0.42 to 0.94)		
H3000's	-0.08 (-0.52 to 0.37)			0.07 (-1.2 to 1.3)			-0.32 (-1.0 to 0.37)		
mean_StanceDur * group_char		0.35	0.35		0.17	0.23		0.006	0.012
mean_StanceDur * H2000's	0.03 (-0.16 to 0.21)			0.21 (-0.08 to 0.50)			0.12 (-0.05 to 0.30)		
mean_StanceDur * H3000's	-0.17 (-0.42 to 0.08)			0.30 (-0.09 to 0.68)			0.37 (0.13 to 0.60)		
subj_char.sd(Intercept)	0.57 (NA to NA)			1.8 (NA to NA)			1.0 (NA to NA)		
Residual.sdObservation	0.23 (NA to NA)			0.36 (NA to NA)			0.22 (NA to NA)		

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 False discovery rate correction for multiple testing

Changes in	mean_GaitCycleDur	for Cluster:	3						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.90 (0.61 to 1.2)	< 0.001	< 0.001	1.1 (0.23 to 1.9)	0.012	0.049	0.83 (0.37 to 1.3)	< 0.001	0.002
mean_GaitCycleDur	-0.10 (-0.17 to -0.02)	0.014	0.029	0.10 (-0.02 to 0.22)	0.11	0.16	0.07 (0.00 to 0.15)	0.041	0.054
group_char		0.029	0.039		0.99	0.99		0.27	0.27
H1000's	_			_			_		
H2000's	-0.57 (-1.0 to -0.12)			0.10 (-1.2 to 1.4)			0.21 (-0.49 to 0.90)		
H3000's	-0.04 (-0.51 to 0.44)			-0.01 (-1.3 to 1.3)			-0.41 (-1.1 to 0.31)		
mean_GaitCycleDur * group_char		0.33	0.33		0.12	0.16		0.004	0.009
mean_GaitCycleDur * H2000's	0.02 (-0.13 to 0.18)			0.20 (-0.05 to 0.44)			0.12 (-0.03 to 0.27)		
mean_GaitCycleDur * H3000's	-0.15 (-0.36 to 0.06)			0.26 (-0.07 to 0.59)			0.32 (0.12 to 0.51)		
subj_char.sd(Intercept)	0.57 (NA to NA)			1.8 (NA to NA)			1.0 (NA to NA)		
Residual.sdObservation	0.23 (NA to NA)			0.36 (NA to NA)			0.22 (NA to NA)		
Residual.sdObservation	0.23 (NA to NA)			0.36 (NA to NA)			0.22 (NA to NA)		

Changes in	mean PeakUpDownVel mean	for Chroton	9						
Changes in			3						
	EEG The	eta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.66 (0.38 to 0.94)	< 0.001	< 0.001	1.4 (0.57 to 2.2)	< 0.001	0.004	1.1 (0.66 to 1.6)	< 0.001	< 0.001
mean_PeakUpDownVel_mean	0.27 (-0.20 to 0.74)	0.26	0.35	-0.62 (-1.4 to 0.11)	0.10	0.19	-0.61 (-1.0 to -0.18)	0.006	0.011
group_char		0.047	0.093		0.80	0.97		0.42	0.56
H1000's	_			_			_		
H2000's	-0.52 (-0.93 to -0.11)			0.40 (-0.83 to 1.6)			0.43 (-0.24 to 1.1)		
H3000's	-0.24 (-0.65 to 0.17)			0.29 (-0.93 to 1.5)			0.06 (-0.61 to 0.73)		
mean_PeakUpDownVel_mean * group_char		0.85	0.85		0.97	0.97		0.75	0.75
mean_PeakUpDownVel_mean * H2000's	0.01 (-0.66 to 0.68)			-0.05 (-1.1 to 1.0)			-0.17 (-0.78 to 0.44)		
mean_PeakUpDownVel_mean * H3000's	0.17 (-0.49 to 0.83)			0.07 (-0.96 to 1.1)			-0.23 (-0.83 to 0.38)		
subj_char.sd(Intercept)	0.56 (NA to NA)			1.8 (NA to NA)			1.0 (NA to NA)		
Residual.sdObservation	0.24 (NA to NA)			0.37 (NA to NA)			0.21 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Residual.sd__Observation | 1 CI = Confidence Interval | 2 False discovery rate correction for multiple testing

Changes in	mean_APexc_COV	for Cluster:	4						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.55 (0.13 to 0.97)	0.010	0.038	3.3 (2.1 to 4.6)	< 0.001	< 0.001	2.1 (1.4 to 2.8)	< 0.001	< 0.001
mean_APexc_COV	-0.01 (-0.02 to 0.01)	0.48	0.48	0.03 (-0.02 to 0.07)	0.23	0.47	0.02 (-0.01 to 0.04)	0.19	0.26
group_char		0.27	0.38		0.44	0.49		0.13	0.26
H1000's	_			_			_		
H2000's	-0.40 (-1.1 to 0.34)			0.54 (-1.6 to 2.7)			1.1 (-0.04 to 2.3)		
H3000's	-0.47 (-1.1 to 0.13)			-0.82 (-2.6 to 0.97)			0.68 (-0.29 to 1.6)		
mean_APexc_COV * group_char		0.28	0.38		0.49	0.49		0.59	0.59
mean_APexc_COV * H2000's	0.01 (-0.02 to 0.03)			-0.04 (-0.11 to 0.03)			-0.02 (-0.06 to 0.02)		
mean_APexc_COV * H3000's	0.01 (0.00 to 0.03)			0.00 (-0.06 to 0.05)			-0.01 (-0.04 to 0.02)		
subj_char.sd(Intercept)	0.80 (NA to NA)			2.5 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.24 (NA to NA)			0.65 (NA to NA)			0.36 (NA to NA)		

Changes in	mean_APexc_mean	for Cluster:	4						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.40 (0.02 to 0.78)	0.039	0.16	3.0 (1.8 to 4.1)	< 0.001	< 0.001	2.1 (1.5 to 2.7)	< 0.001	< 0.001
mean_APexc_mean	1.1 (-2.2 to 4.4)	0.53	0.57	15 (6.4 to 23)	< 0.001	0.001	5.2 (0.45 to 9.9)	0.032	0.064
group_char		0.57	0.57		0.78	0.94		0.47	0.47
H1000's	_			_			_		
H2000's	-0.26 (-0.87 to 0.35)			-0.14 (-2.0 to 1.7)			0.59 (-0.41 to 1.6)		
H3000's	-0.27 (-0.82 to 0.28)			-0.58 (-2.2 to 1.1)			0.39 (-0.50 to 1.3)		
mean_APexc_mean * group_char		0.42	0.57		0.94	0.94		0.24	0.32
mean_APexc_mean * H2000's	-1.1 (-6.7 to 4.6)			2.0 (-13 to 17)			6.0 (-2.0 to 14)		
mean_APexc_mean * H3000's	3.0 (-2.5 to 8.5)			2.1 (-12 to 16)			5.1 (-2.7 to 13)		
subj_char.sd(Intercept)	0.81 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.23 (NA to NA)			0.61 (NA to NA)			0.33 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

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Changes in	mean_MLexc_COV	for Cluster:	4						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.37 (-0.03 to 0.76)	0.070	0.28	3.8 (2.7 to 5.0)	< 0.001	< 0.001	2.3 (1.7 to 3.0)	< 0.001	< 0.001
mean_MLexc_COV	0.01 (-0.01 to 0.02)	0.40	0.67	-0.01 (-0.05 to 0.04)	0.80	0.80	0.00 (-0.02 to 0.03)	0.73	0.73
group_char		0.50	0.67		0.36	0.47		0.038	0.076
H1000's	_			_			_		
H2000's	-0.36 (-0.99 to 0.26)			0.51 (-1.4 to 2.4)			1.3 (0.30 to 2.3)		
H3000's	-0.23 (-0.79 to 0.33)			-0.82 (-2.5 to 0.86)			0.68 (-0.23 to 1.6)		
mean_MLexc_COV * group_char		0.86	0.86		0.13	0.26		0.11	0.14
mean_MLexc_COV * H2000's	0.00 (-0.02 to 0.03)			-0.05 (-0.11 to 0.01)			-0.04 (-0.07 to 0.00)		
mean_MLexc_COV * H3000's	0.01 (-0.01 to 0.03)			0.01 (-0.05 to 0.06)			-0.01 (-0.04 to 0.02)		
subj_char.sd(Intercept)	0.81 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.23 (NA to NA)			0.65 (NA to NA)			0.35 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	4						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.56 (0.18 to 0.94)	0.004	0.016	3.3 (2.1 to 4.4)	< 0.001	< 0.001	2.2 (1.6 to 2.8)	< 0.001	< 0.001
mean_MLexc_mean	-1.2 (-3.5 to 1.0)	0.28	0.56	6.1 (0.18 to 12)	0.044	0.087	2.5 (-0.70 to 5.7)	0.13	0.25
group_char		0.47	0.56		0.58	0.78		0.46	0.46
H1000's	_			_			_		
H2000's	-0.33 (-0.93 to 0.27)			-0.29 (-2.1 to 1.5)			0.63 (-0.36 to 1.6)		
H3000's	-0.28 (-0.82 to 0.26)			-0.85 (-2.5 to 0.77)			0.29 (-0.59 to 1.2)		
mean_MLexc_mean * group_char		0.56	0.56		0.93	0.93		0.44	0.46
mean_MLexc_mean * H2000's	0.30 (-2.6 to 3.2)			0.55 (-7.1 to 8.2)			1.8 (-2.3 to 5.9)		
mean_MLexc_mean * H3000's	1.4 (-1.5 to 4.3)			1.4 (-6.2 to 9.0)			2.6 (-1.4 to 6.7)		
subj_char.sd(Intercept)	0.81 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.24 (NA to NA)			0.62 (NA to NA)			0.33 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

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Changes in	mean_StepDur	for Cluster:	4						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.38 (0.02 to 0.74)	0.039	0.15	3.1 (2.0 to 4.2)	< 0.001	< 0.001	2.2 (1.6 to 2.8)	< 0.001	< 0.001
mean_StepDur	0.08 (-0.07 to 0.24)	0.28	0.57	0.68 (0.29 to 1.1)	< 0.001	0.001	0.18 (-0.03 to 0.39)	0.10	0.13
group_char		0.87	0.87		0.52	0.52		0.62	0.62
H1000's	_			_			_		
H2000's	-0.16 (-0.77 to 0.45)			-0.48 (-2.3 to 1.4)			0.45 (-0.54 to 1.4)		
H3000's	-0.08 (-0.63 to 0.47)			-0.96 (-2.6 to 0.69)			0.00 (-0.89 to 0.89)		
mean_StepDur * group_char		0.53	0.71		0.27	0.37		0.002	0.003
mean_StepDur * H2000's	-0.19 (-0.53 to 0.15)			0.53 (-0.34 to 1.4)			0.51 (0.04 to 0.99)		
mean_StepDur * H3000's	-0.09 (-0.45 to 0.26)			0.59 (-0.31 to 1.5)			0.82 (0.32 to 1.3)		
subj_char.sd(Intercept)	0.81 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.24 (NA to NA)			0.60 (NA to NA)			0.33 (NA to NA)		

Changes in	mean_UDexc_COV	for Cluster:	4						
	EEG	Theta	•	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.46 (0.11 to 0.82)	0.011	0.043	3.4 (2.3 to 4.5)	< 0.001	< 0.001	2.2 (1.6 to 2.8)	< 0.001	< 0.001
mean_UDexc_COV	0.00 (-0.01 to 0.01)	0.96	0.96	0.03 (0.00 to 0.05)	0.045	0.090	0.01 (0.00 to 0.02)	0.10	0.19
group_char		0.62	0.96		0.50	0.67		0.35	0.35
H1000's	_			_			_		
H2000's	-0.27 (-0.85 to 0.31)			-0.17 (-1.9 to 1.6)			0.70 (-0.25 to 1.6)		
H3000's	-0.18 (-0.70 to 0.35)			-0.93 (-2.5 to 0.68)			0.23 (-0.62 to 1.1)		
mean_UDexc_COV * group_char		0.84	0.96		0.76	0.76		0.18	0.25
mean_UDexc_COV * H2000's	0.00 (-0.02 to 0.01)			0.00 (-0.04 to 0.04)			0.01 (-0.01 to 0.03)		
mean_UDexc_COV * H3000's	0.00 (-0.01 to 0.02)			0.01 (-0.03 to 0.05)			0.02 (0.00 to 0.04)		
subj_char.sd(Intercept)	0.81 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.24 (NA to NA)			0.63 (NA to NA)			0.34 (NA to NA)		

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 False discovery rate correction for multiple testing

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Changes in	mean_UDexc_mean	for Cluster:	4						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.39 (0.02 to 0.75)	0.039	0.16	4.2 (3.1 to 5.3)	< 0.001	< 0.001	2.6 (2.0 to 3.2)	< 0.001	< 0.001
mean_UDexc_mean	3.0 (-3.3 to 9.2)	0.35	0.65	-18 (-34 to -1.0)	0.037	0.074	-8.1 (-17 to 0.58)	0.067	0.092
group_char		0.49	0.65		0.77	0.86		0.069	0.092
H1000's	_			_			_		
H2000's	-0.36 (-0.96 to 0.23)			-0.10 (-1.9 to 1.7)			0.98 (0.03 to 1.9)		
H3000's	-0.15 (-0.67 to 0.38)			-0.57 (-2.2 to 1.0)			0.82 (-0.03 to 1.7)		
mean_UDexc_mean * group_char		0.88	0.88		0.86	0.86		0.12	0.12
mean_UDexc_mean * H2000's	1.7 (-7.9 to 11)			-1.9 (-27 to 24)			-6.0 (-19 to 7.4)		
mean_UDexc_mean * H3000's	-0.61 (-9.1 to 7.9)			-6.1 (-29 to 16)			-12 (-24 to -0.62)		
subj_char.sd(Intercept)	0.81 (NA to NA)			2.5 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.24 (NA to NA)			0.62 (NA to NA)			0.33 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	4						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.40 (0.04 to 0.75)	0.027	0.11	3.2 (2.2 to 4.3)	< 0.001	< 0.001	2.2 (1.7 to 2.8)	< 0.001	< 0.001
mean_StanceDur	0.05 (-0.04 to 0.14)	0.29	0.58	0.41 (0.18 to 0.65)	< 0.001	< 0.001	0.11 (-0.02 to 0.23)	0.10	0.13
group_char		0.82	0.82		0.56	0.56		0.51	0.51
H1000's				_			_		
H2000's	-0.19 (-0.77 to 0.40)			-0.35 (-2.1 to 1.4)			0.56 (-0.40 to 1.5)		
H3000's	-0.08 (-0.61 to 0.44)			-0.87 (-2.5 to 0.72)			0.12 (-0.74 to 0.98)		
mean_StanceDur * group_char		0.49	0.65		0.36	0.48		0.003	0.005
mean_StanceDur * H2000's	-0.11 (-0.31 to 0.09)			0.26 (-0.25 to 0.77)			0.28 (0.00 to 0.56)		
mean_StanceDur * H3000's	-0.07 (-0.28 to 0.14)			0.33 (-0.20 to 0.85)			0.47 (0.18 to 0.76)		
subj_char.sd(Intercept)	0.81 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.24 (NA to NA)			0.60 (NA to NA)			0.33 (NA to NA)		

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Changes in	mean_GaitCycleDur	for Cluster:	4						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.38 (0.02 to 0.74)	0.039	0.16	3.1 (2.0 to 4.2)	< 0.001	< 0.001	2.2 (1.6 to 2.8)	< 0.001	< 0.001
mean_GaitCycleDur	0.04 (-0.03 to 0.12)	0.28	0.56	0.34 (0.15 to 0.54)	< 0.001	0.001	0.09 (-0.02 to 0.20)	0.10	0.13
group_char		0.87	0.87		0.52	0.52		0.62	0.62
H1000's	_			_			_		
H2000's	-0.16 (-0.77 to 0.45)			-0.48 (-2.3 to 1.4)			0.45 (-0.53 to 1.4)		
H3000's	-0.08 (-0.63 to 0.47)			-0.96 (-2.6 to 0.69)			0.00 (-0.89 to 0.89)		
mean_GaitCycleDur * group_char		0.53	0.71		0.28	0.37		0.002	0.003
mean_GaitCycleDur * H2000's	-0.09 (-0.26 to 0.08)			0.26 (-0.17 to 0.69)			0.26 (0.02 to 0.49)		
mean_GaitCycleDur * H3000's	-0.05 (-0.22 to 0.13)			0.30 (-0.15 to 0.75)			0.41 (0.16 to 0.65)		
subj_char.sd(Intercept)	0.81 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.24 (NA to NA)			0.60 (NA to NA)			0.33 (NA to NA)		

Changes in	mean_PeakUpDownVel_mean	for Cluster:	4						
	EEG The	ta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.43 (0.08 to 0.78)	0.016	0.063	4.1 (3.0 to 5.2)	< 0.001	< 0.001	2.5 (1.9 to 3.1)	< 0.001	< 0.001
mean_PeakUpDownVel_mean	0.11 (-0.35 to 0.57)	0.64	0.85	-1.5 (-2.7 to -0.27)	0.016	0.032	-0.60 (-1.2 to 0.02)	0.059	0.059
group_char		0.47	0.85		0.74	0.85		0.053	0.059
H1000's	_			_			_		
H2000's	-0.35 (-0.92 to 0.22)			-0.02 (-1.8 to 1.7)			1.0 (0.08 to 1.9)		
H3000's	-0.19 (-0.70 to 0.32)			-0.57 (-2.1 to 1.0)			0.83 (0.00 to 1.7)		
mean_PeakUpDownVel_mean * group_char		0.93	0.93		0.85	0.85		0.034	0.059
mean_PeakUpDownVel_mean * H2000's	0.13 (-0.59 to 0.84)			-0.44 (-2.3 to 1.4)			-0.67 (-1.6 to 0.31)		
mean_PeakUpDownVel_mean * H3000's	0.10 (-0.53 to 0.74)			-0.42 (-2.1 to 1.2)			-1.1 (-2.0 to -0.28)		
subj_char.sd(Intercept)	0.81 (NA to NA)			2.5 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.24 (NA to NA)			0.61 (NA to NA)			0.32 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Residual.sd__Observation | 1 CI = Confidence Interval | 2 False discovery rate correction for multiple testing

Changes in	mean_APexc_COV	for Cluster:	5						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.96 (0.50 to 1.4)	< 0.001	< 0.001	2.2 (1.0 to 3.4)	< 0.001	< 0.001	2.0 (1.1 to 2.9)	< 0.001	< 0.001
mean_APexc_COV	-0.01 (-0.03 to 0.01)	0.41	0.48	0.01 (-0.03 to 0.04)	0.63	0.86	0.00 (-0.02 to 0.03)	0.91	0.91
group_char		0.11	0.22		0.65	0.86		0.29	0.41
H1000's	_			_			_		
H2000's	-0.39 (-1.1 to 0.36)			-0.87 (-2.7 to 1.0)			0.69 (-0.73 to 2.1)		
H3000's	-0.68 (-1.3 to -0.04)			-0.49 (-2.1 to 1.1)			1.0 (-0.26 to 2.3)		
mean_APexc_COV * group_char		0.48	0.48		0.93	0.93		0.30	0.41
mean_APexc_COV * H2000's	0.00 (-0.03 to 0.03)			0.00 (-0.05 to 0.05)			-0.01 (-0.04 to 0.03)		
mean_APexc_COV * H3000's	0.01 (-0.01 to 0.03)			0.01 (-0.04 to 0.05)			0.01 (-0.01 to 0.04)		
subj_char.sd(Intercept)	0.75 (NA to NA)			2.4 (NA to NA)			1.9 (NA to NA)		
Residual.sdObservation	0.29 (NA to NA)			0.51 (NA to NA)			0.35 (NA to NA)		

Changes in	mean_APexc_mean	for Cluster:	5						
	EEG	Theta	,	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.1 (0.67 to 1.5)	< 0.001	< 0.001	2.0 (0.95 to 3.1)	< 0.001	0.001	1.8 (0.98 to 2.7)	< 0.001	< 0.001
mean_APexc_mean	-4.6 (-8.7 to -0.41)	0.031	0.042	5.6 (-1.6 to 13)	0.13	0.26	3.7 (-1.3 to 8.6)	0.14	0.19
group_char		0.022	0.042		0.51	0.57		0.066	0.13
H1000's	_			_			_		
H2000's	-0.59 (-1.2 to 0.03)			-0.99 (-2.7 to 0.69)			0.34 (-0.97 to 1.7)		
H3000's	-0.76 (-1.3 to -0.20)			-0.42 (-2.0 to 1.1)			1.4 (0.18 to 2.6)		
mean_APexc_mean * group_char		0.31	0.31		0.57	0.57		0.52	0.52
mean_APexc_mean * H2000's	1.2 (-5.9 to 8.2)			4.3 (-7.9 to 16)			4.7 (-3.6 to 13)		
mean_APexc_mean * H3000's	5.0 (-1.5 to 11)			5.8 (-5.5 to 17)			0.58 (-7.1 to 8.3)		
subj_char.sd(Intercept)	0.76 (NA to NA)			2.4 (NA to NA)			1.9 (NA to NA)		
Residual.sdObservation	0.29 (NA to NA)			0.50 (NA to NA)			0.34 (NA to NA)		

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Changes in	mean_MLexc_COV	for Cluster:	5						
	EEG	Theta	,	EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.79 (0.37 to 1.2)	< 0.001	< 0.001	2.7 (1.6 to 3.9)	< 0.001	< 0.001	2.1 (1.2 to 3.0)	< 0.001	< 0.001
mean_MLexc_COV	0.00 (-0.01 to 0.02)	0.78	0.87	-0.03 (-0.06 to 0.00)	0.090	0.18	0.00 (-0.03 to 0.02)	0.66	0.66
group_char		0.10	0.19		0.35	0.38		0.044	0.087
H1000's	_			_			_		
H2000's	-0.58 (-1.2 to 0.03)			-1.2 (-2.9 to 0.45)			0.65 (-0.67 to 2.0)		
H3000's	-0.55 (-1.1 to 0.02)			-0.65 (-2.2 to 0.90)			1.5 (0.33 to 2.7)		
mean_MLexc_COV * group_char		0.87	0.87		0.38	0.38		0.62	0.66
mean_MLexc_COV * H2000's	0.01 (-0.02 to 0.03)			0.03 (-0.02 to 0.07)			-0.01 (-0.04 to 0.02)		
mean_MLexc_COV * H3000's	0.00 (-0.02 to 0.03)			0.03 (-0.02 to 0.07)			-0.01 (-0.04 to 0.01)		
subj_char.sd(Intercept)	0.75 (NA to NA)			2.4 (NA to NA)			1.9 (NA to NA)		
Residual.sdObservation	0.29 (NA to NA)			0.51 (NA to NA)			0.35 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	5						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.0 (0.62 to 1.4)	< 0.001	< 0.001	1.9 (0.82 to 3.0)	< 0.001	0.002	1.8 (0.98 to 2.7)	< 0.001	< 0.001
mean_MLexc_mean	-2.5 (-5.2 to 0.32)	0.083	0.13	5.7 (0.84 to 11)	0.022	0.043	2.7 (-0.59 to 6.0)	0.11	0.16
group_char		0.10	0.13		0.82	0.82		0.12	0.16
H1000's	_			_			_		
H2000's	-0.50 (-1.1 to 0.09)			-0.53 (-2.2 to 1.1)			0.51 (-0.79 to 1.8)		
H3000's	-0.56 (-1.1 to -0.01)			-0.17 (-1.7 to 1.3)			1.2 (0.06 to 2.4)		
mean_MLexc_mean * group_char		0.87	0.87		0.37	0.49		0.78	0.78
mean_MLexc_mean * H2000's	0.45 (-3.1 to 4.0)			-4.3 (-11 to 2.0)			-0.17 (-4.4 to 4.0)		
mean_MLexc_mean * H3000's	0.92 (-2.6 to 4.4)			-1.5 (-7.6 to 4.7)			1.1 (-3.1 to 5.2)		
subj_char.sd(Intercept)	0.76 (NA to NA)			2.4 (NA to NA)			1.9 (NA to NA)		
Residual.sdObservation	0.29 (NA to NA)			0.50 (NA to NA)			0.34 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

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 False discovery rate correction for multiple testing

		for Cluster:	-						
Changes in	mean_StepDur		9						
		Theta			Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.0 (0.65 to 1.4)	< 0.001	< 0.001	2.1 (1.0 to 3.1)	< 0.001	< 0.001	1.9 (1.1 to 2.8)	< 0.001	< 0.001
mean_StepDur	-0.22 (-0.40 to -0.03)	0.023	0.046	0.30 (-0.03 to 0.63)	0.077	0.15	0.11 (-0.12 to 0.33)	0.35	0.35
group_char		0.16	0.21		0.62	0.74		0.24	0.32
H1000's	_			_			_		
H2000's	-0.42 (-1.0 to 0.19)			-0.84 (-2.5 to 0.85)			0.31 (-1.0 to 1.6)		
H3000's	-0.51 (-1.1 to 0.05)			-0.40 (-2.0 to 1.1)			1.0 (-0.19 to 2.2)		
mean_StepDur * group_char		0.79	0.79		0.74	0.74		0.091	0.18
mean_StepDur * H2000's	-0.15 (-0.56 to 0.27)			0.07 (-0.67 to 0.80)			0.32 (-0.18 to 0.81)		
mean_StepDur * H3000's	-0.05 (-0.46 to 0.37)			0.29 (-0.44 to 1.0)			0.51 (0.01 to 1.0)		
subj_char.sd(Intercept)	0.75 (NA to NA)			2.4 (NA to NA)			1.9 (NA to NA)		
Residual.sdObservation	0.29 (NA to NA)			0.51 (NA to NA)			0.34 (NA to NA)		

Changes in	mean_UDexc_COV	for Cluster:	5						
	EEG	Theta	,	EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.99 (0.62 to 1.4)	< 0.001	< 0.001	2.2 (1.1 to 3.2)	< 0.001	< 0.001	1.9 (1.1 to 2.7)	< 0.001	< 0.001
mean_UDexc_COV	-0.01 (-0.03 to 0.00)	0.037	0.074	0.01 (-0.01 to 0.04)	0.25	0.51	0.01 (0.00 to 0.03)	0.16	0.22
group_char		0.080	0.11		0.67	0.87		0.15	0.22
H1000's	_			_			_		
H2000's	-0.55 (-1.1 to 0.01)			-0.75 (-2.4 to 0.89)			0.53 (-0.75 to 1.8)		
H3000's	-0.51 (-1.0 to 0.01)			-0.28 (-1.8 to 1.2)			1.2 (0.00 to 2.3)		
mean_UDexc_COV * group_char		0.84	0.84		0.87	0.87		0.47	0.47
mean_UDexc_COV * H2000's	0.01 (-0.01 to 0.02)			-0.01 (-0.04 to 0.02)			0.00 (-0.02 to 0.02)		
mean_UDexc_COV * H3000's	0.00 (-0.02 to 0.02)			0.00 (-0.03 to 0.03)			0.01 (-0.01 to 0.03)		
subj_char.sd(Intercept)	0.76 (NA to NA)			2.4 (NA to NA)			1.9 (NA to NA)		
Residual.sdObservation	0.29 (NA to NA)			0.51 (NA to NA)			0.34 (NA to NA)		

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Changes in	mean_UDexc_mean	for Cluster:	5						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.58 (0.20 to 0.96)	0.003	0.012	2.5 (1.4 to 3.6)	< 0.001	< 0.001	2.2 (1.3 to 3.0)	< 0.001	< 0.001
mean_UDexc_mean	10 (1.9 to 18)	0.016	0.032	-7.4 (-22 to 7.5)	0.33	0.65	-5.1 (-15 to 4.6)	0.31	0.31
group_char		0.19	0.25		0.48	0.65		0.019	0.038
H1000's	_			_			_		
H2000's	-0.47 (-1.1 to 0.11)			-1.0 (-2.7 to 0.67)			0.56 (-0.73 to 1.9)		
H3000's	-0.42 (-0.95 to 0.11)			-0.23 (-1.7 to 1.3)			1.7 (0.49 to 2.9)		
mean_UDexc_mean * group_char		0.84	0.84		0.70	0.70		0.051	0.069
mean_UDexc_mean * H2000's	-1.4 (-13 to 10)			6.7 (-14 to 28)			-0.63 (-14 to 13)		
mean_UDexc_mean * H3000's	-3.2 (-14 to 7.7)			-1.4 (-21 to 18)			-14 (-26 to -0.85)		
subj_char.sd(Intercept)	0.75 (NA to NA)			2.4 (NA to NA)			1.9 (NA to NA)		
Residual.sdObservation	0.28 (NA to NA)			0.51 (NA to NA)			0.33 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	5						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.99 (0.63 to 1.3)	< 0.001	< 0.001	2.1 (1.1 to 3.2)	< 0.001	< 0.001	2.0 (1.1 to 2.8)	< 0.001	< 0.001
mean_StanceDur	-0.13 (-0.24 to -0.02)	0.024	0.048	0.19 (-0.01 to 0.38)	0.066	0.13	0.06 (-0.07 to 0.19)	0.36	0.36
group_char		0.12	0.16		0.61	0.73		0.20	0.27
H1000's	_			_			_		
H2000's	-0.45 (-1.0 to 0.13)			-0.84 (-2.5 to 0.81)			0.36 (-0.93 to 1.6)		
H3000's	-0.51 (-1.0 to 0.02)			-0.37 (-1.9 to 1.1)			1.1 (-0.11 to 2.2)		
mean_StanceDur * group_char		0.82	0.82		0.73	0.73		0.070	0.14
mean_StanceDur * H2000's	-0.08 (-0.32 to 0.17)			0.05 (-0.39 to 0.48)			0.19 (-0.11 to 0.48)		
mean_StanceDur * H3000's	-0.03 (-0.27 to 0.22)			0.17 (-0.26 to 0.60)			0.32 (0.03 to 0.61)		
subj_char.sd(Intercept)	0.75 (NA to NA)			2.4 (NA to NA)			1.9 (NA to NA)		
Residual.sdObservation	0.29 (NA to NA)			0.51 (NA to NA)			0.34 (NA to NA)		

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 False discovery rate correction for multiple testing

Changes in	mean_GaitCycleDur	for Cluster:	5						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.0 (0.65 to 1.4)	< 0.001	< 0.001	2.1 (1.0 to 3.1)	< 0.001	< 0.001	1.9 (1.1 to 2.8)	< 0.001	< 0.001
mean_GaitCycleDur	-0.11 (-0.20 to -0.01)	0.023	0.047	0.15 (-0.02 to 0.31)	0.075	0.15	0.05 (-0.06 to 0.16)	0.35	0.35
group_char		0.16	0.21		0.62	0.74		0.24	0.32
H1000's	_			_			_		
H2000's	-0.42 (-1.0 to 0.18)			-0.84 (-2.5 to 0.85)			0.31 (-1.0 to 1.6)		
H3000's	-0.51 (-1.1 to 0.05)			-0.40 (-1.9 to 1.1)			1.0 (-0.19 to 2.2)		
mean_GaitCycleDur * group_char		0.80	0.80		0.74	0.74		0.092	0.18
mean_GaitCycleDur * H2000's	-0.07 (-0.28 to 0.14)			0.03 (-0.33 to 0.40)			0.16 (-0.09 to 0.40)		
mean_GaitCycleDur * H3000's	-0.02 (-0.23 to 0.18)			0.15 (-0.22 to 0.51)			0.25 (0.01 to 0.50)		
subj_char.sd(Intercept)	0.75 (NA to NA)			2.4 (NA to NA)			1.9 (NA to NA)		
Residual.sdObservation	0.29 (NA to NA)			0.51 (NA to NA)			0.34 (NA to NA)		

Changes in	mean_PeakUpDownVel_mean	for Cluster:	5						
	EEG The	ta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.66 (0.31 to 1.0)	< 0.001	0.001	2.5 (1.4 to 3.5)	< 0.001	< 0.001	2.1 (1.3 to 2.9)	< 0.001	< 0.001
mean_PeakUpDownVel_mean	0.68 (0.10 to 1.3)	0.022	0.045	-0.63 (-1.7 to 0.41)	0.23	0.47	-0.39 (-1.1 to 0.29)	0.26	0.26
group_char		0.094	0.13		0.50	0.58		0.023	0.045
H1000's	_			_			_		
H2000's	-0.52 (-1.1 to 0.03)			-0.94 (-2.6 to 0.68)			0.58 (-0.69 to 1.9)		
H3000's	-0.48 (-0.98 to 0.03)			-0.17 (-1.7 to 1.3)			1.6 (0.45 to 2.8)		
mean_PeakUpDownVel_mean * group_char		0.94	0.94		0.58	0.58		0.069	0.092
mean_PeakUpDownVel_mean * H2000's	0.03 (-0.82 to 0.87)			0.47 (-1.1 to 2.0)			-0.13 (-1.1 to 0.86)		
mean_PeakUpDownVel_mean * H3000's	-0.11 (-0.91 to 0.69)			-0.32 (-1.8 to 1.1)			-1.0 (-2.0 to -0.08)		
subj_char.sd(Intercept)	0.75 (NA to NA)			2.4 (NA to NA)			1.9 (NA to NA)		
Residual.sdObservation	0.28 (NA to NA)			0.51 (NA to NA)			0.33 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Residual.sd__Observation | 1 CI = Confidence Interval | 2 False discovery rate correction for multiple testing

Changes in	mean_APexc_COV	for Cluster:	6						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.30 (-0.19 to 0.79)	0.23	0.46	4.3 (3.4 to 5.3)	< 0.001	< 0.001	2.7 (2.2 to 3.3)	< 0.001	< 0.001
mean_APexc_COV	0.01 (-0.02 to 0.03)	0.66	0.66	0.01 (-0.03 to 0.04)	0.75	0.75	-0.01 (-0.03 to 0.01)	0.22	0.29
group_char		0.061	0.24		0.088	0.18		0.004	0.009
H1000's	_			_			_		
H2000's	0.33 (-0.46 to 1.1)			-1.2 (-2.7 to 0.37)			-0.86 (-1.7 to -0.04)		
H3000's	0.83 (0.14 to 1.5)			-1.5 (-2.9 to -0.11)			-1.2 (-1.9 to -0.48)		
mean_APexc_COV * group_char		0.54	0.66		0.65	0.75		0.40	0.40
mean_APexc_COV * H2000's	0.01 (-0.02 to 0.04)			0.00 (-0.06 to 0.05)			0.01 (-0.02 to 0.04)		
mean_APexc_COV * H3000's	0.01 (-0.01 to 0.04)			0.02 (-0.03 to 0.06)			0.02 (-0.01 to 0.04)		
subj_char.sd(Intercept)	0.85 (NA to NA)			2.0 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.39 (NA to NA)			0.66 (NA to NA)			0.34 (NA to NA)		

Changes in	mean_APexc_mean	for Cluster:	6						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.37 (-0.08 to 0.81)	0.11	0.21	4.0 (3.1 to 4.9)	< 0.001	< 0.001	2.5 (2.0 to 3.0)	< 0.001	< 0.001
mean_APexc_mean	0.28 (-4.8 to 5.4)	0.91	0.91	7.7 (-0.82 to 16)	0.076	0.15	0.80 (-3.6 to 5.2)	0.72	0.72
group_char		0.006	0.022		0.15	0.20		0.008	0.015
H1000's	_			_			_		
H2000's	0.71 (0.05 to 1.4)			-1.2 (-2.5 to 0.14)			-0.95 (-1.7 to -0.23)		
H3000's	0.98 (0.37 to 1.6)			-1.0 (-2.3 to 0.24)			-0.94 (-1.6 to -0.28)		
mean_APexc_mean * group_char		0.17	0.23		0.95	0.95		0.21	0.28
mean_APexc_mean * H2000's	-0.97 (-9.6 to 7.7)			2.0 (-13 to 16)			6.6 (-0.88 to 14)		
mean_APexc_mean * H3000's	6.7 (-1.3 to 15)			1.9 (-12 to 15)			0.96 (-6.0 to 7.9)		
subj_char.sd(Intercept)	0.87 (NA to NA)			2.0 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.39 (NA to NA)			0.65 (NA to NA)			0.33 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

¹ CI = Confidence Interval
² False discovery rate correction for multiple testing

Changes in	mean_MLexc_COV	for Cluster:	6						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.29 (-0.20 to 0.77)	0.24	0.48	4.5 (3.5 to 5.5)	< 0.001	< 0.001	2.6 (2.1 to 3.1)	< 0.001	< 0.001
mean_MLexc_COV	0.01 (-0.02 to 0.03)	0.61	0.73	0.00 (-0.05 to 0.04)	0.82	0.82	-0.01 (-0.03 to 0.01)	0.53	0.60
group_char		< 0.001	< 0.001		0.37	0.74		0.050	0.10
H1000's	_			_			_		
H2000's	0.69 (0.02 to 1.4)			-0.88 (-2.3 to 0.49)			-0.48 (-1.2 to 0.25)		
H3000's	1.4 (0.76 to 2.0)			-0.80 (-2.1 to 0.51)			-0.86 (-1.6 to -0.17)		
mean_MLexc_COV * group_char		0.73	0.73		0.71	0.82		0.60	0.60
mean_MLexc_COV * H2000's	0.00 (-0.03 to 0.03)			-0.02 (-0.07 to 0.03)			-0.01 (-0.04 to 0.01)		
mean_MLexc_COV * H3000's	-0.01 (-0.04 to 0.02)			-0.02 (-0.07 to 0.03)			0.00 (-0.03 to 0.02)		
subj_char.sd(Intercept)	0.85 (NA to NA)			2.0 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.39 (NA to NA)			0.65 (NA to NA)			0.33 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	6						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.41 (-0.01 to 0.83)	0.058	0.078	4.0 (3.1 to 4.9)	< 0.001	< 0.001	2.4 (2.0 to 2.9)	< 0.001	< 0.001
mean_MLexc_mean	-0.36 (-3.6 to 2.9)	0.83	0.83	5.1 (-0.34 to 11)	0.066	0.13	1.3 (-1.6 to 4.1)	0.38	0.51
group_char		0.020	0.039		0.11	0.15		0.013	0.026
H1000's	_			_			_		
H2000's	0.64 (0.03 to 1.2)			-1.2 (-2.4 to 0.12)			-0.81 (-1.5 to -0.12)		
H3000's	0.79 (0.21 to 1.4)			-1.2 (-2.4 to 0.06)			-0.91 (-1.6 to -0.26)		
mean_MLexc_mean * group_char		0.006	0.023		0.75	0.75		0.58	0.58
mean_MLexc_mean * H2000's	0.33 (-3.7 to 4.4)			-1.1 (-7.8 to 5.7)			1.4 (-2.1 to 4.9)		
mean_MLexc_mean * H3000's	5.5 (1.3 to 9.6)			1.2 (-5.8 to 8.2)			-0.07 (-3.7 to 3.6)		
subj_char.sd(Intercept)	0.85 (NA to NA)			2.0 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.38 (NA to NA)			0.64 (NA to NA)			0.33 (NA to NA)		

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Changes in	mean_StepDur	for Cluster:	6						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.41 (0.01 to 0.81)	0.045	0.060	4.0 (3.1 to 4.8)	< 0.001	< 0.001	2.4 (2.0 to 2.9)	< 0.001	< 0.001
mean_StepDur	-0.03 (-0.27 to 0.20)	0.78	0.78	0.50 (0.12 to 0.88)	0.010	0.020	0.14 (-0.06 to 0.34)	0.17	0.23
group_char		0.019	0.038		0.035	0.046		0.007	0.015
H1000's	_			_			_		
H2000's	0.74 (0.10 to 1.4)			-1.2 (-2.5 to 0.09)			-0.91 (-1.6 to -0.21)		
H3000's	0.76 (0.16 to 1.4)			-1.6 (-2.8 to -0.31)			-0.94 (-1.6 to -0.27)		
mean_StepDur * group_char		0.017	0.038		0.10	0.10		0.25	0.25
mean_StepDur * H2000's	-0.10 (-0.58 to 0.37)			0.14 (-0.64 to 0.91)			0.35 (-0.06 to 0.76)		
mean_StepDur * H3000's	0.69 (0.18 to 1.2)			0.91 (0.08 to 1.7)			0.08 (-0.36 to 0.52)		
subj_char.sd(Intercept)	0.87 (NA to NA)			2.0 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.38 (NA to NA)			0.63 (NA to NA)			0.33 (NA to NA)		

¹ CI = Confidence Interval

Changes in	mean UDexc COV	for Cluster:	6						
Changes in		Theta	0	l ppc	A 1 1		l ppc	Beta	
		1 neta			Alpha			вета	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.41 (0.02 to 0.79)	0.039	0.052	4.3 (3.4 to 5.1)	< 0.001	< 0.001	2.5 (2.1 to 3.0)	< 0.001	< 0.001
mean_UDexc_COV	0.00 (-0.02 to 0.01)	0.79	0.79	0.01 (-0.01 to 0.04)	0.23	0.31	0.00 (-0.01 to 0.01)	0.99	0.99
group_char		0.007	0.028		0.043	0.085		0.006	0.011
H1000's	_			_			_		
H2000's	0.66 (0.08 to 1.2)			-1.3 (-2.5 to -0.04)			-0.83 (-1.5 to -0.17)		
H3000's	0.85 (0.29 to 1.4)			-1.4 (-2.6 to -0.18)			-0.97 (-1.6 to -0.33)		
mean_UDexc_COV * group_char		0.018	0.036		0.50	0.50		0.43	0.58
mean_UDexc_COV * H2000's	0.00 (-0.02 to 0.02)			0.00 (-0.03 to 0.04)			0.01 (-0.01 to 0.03)		
mean_UDexc_COV * H3000's	0.03 (0.01 to 0.05)			0.02 (-0.02 to 0.06)			0.00 (-0.02 to 0.02)		
subj_char.sd(Intercept)	0.86 (NA to NA)			2.0 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.38 (NA to NA)			0.65 (NA to NA)			0.34 (NA to NA)		

 $^{^{2}}$ False discovery rate correction for multiple testing

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Changes in	mean_UDexc_mean	for Cluster:	6						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.30 (-0.10 to 0.71)	0.14	0.28	4.7 (3.9 to 5.6)	< 0.001	< 0.001	2.6 (2.2 to 3.1)	< 0.001	< 0.001
mean_UDexc_mean	3.3 (-6.0 to 12)	0.49	0.49	-12 (-27 to 3.4)	0.13	0.21	-4.5 (-12 to 3.2)	0.25	0.34
group_char		< 0.001	< 0.001		0.16	0.21		0.041	0.081
H1000's	_			_			_		
H2000's	0.68 (0.08 to 1.3)			-1.1 (-2.4 to 0.13)			-0.49 (-1.2 to 0.18)		
H3000's	1.5 (0.93 to 2.1)			-0.92 (-2.1 to 0.28)			-0.81 (-1.4 to -0.18)		
mean_UDexc_mean * group_char		0.21	0.28		0.88	0.88		0.42	0.42
mean_UDexc_mean * H2000's	-0.57 (-14 to 13)			-2.1 (-24 to 20)			-7.4 (-18 to 3.7)		
mean_UDexc_mean * H3000's	-10 (-23 to 2.6)			-5.4 (-27 to 16)			-4.3 (-15 to 6.4)		
subj_char.sd(Intercept)	0.86 (NA to NA)			2.0 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.39 (NA to NA)			0.64 (NA to NA)			0.33 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	6						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.40 (0.02 to 0.79)	0.038	0.051	4.1 (3.2 to 4.9)	< 0.001	< 0.001	2.4 (2.0 to 2.9)	< 0.001	< 0.001
mean_StanceDur	-0.02 (-0.16 to 0.12)	0.79	0.79	0.31 (0.09 to 0.54)	0.007	0.014	0.09 (-0.03 to 0.21)	0.14	0.18
group_char		0.007	0.020		0.043	0.057		0.009	0.018
H1000's	_			_			_		
H2000's	0.71 (0.12 to 1.3)			-1.2 (-2.4 to 0.07)			-0.83 (-1.5 to -0.15)		
H3000's	0.84 (0.27 to 1.4)			-1.4 (-2.6 to -0.24)			-0.90 (-1.5 to -0.27)		
mean_StanceDur * group_char		0.010	0.020		0.12	0.12		0.35	0.35
mean_StanceDur * H2000's	-0.05 (-0.33 to 0.23)			0.06 (-0.40 to 0.51)			0.18 (-0.06 to 0.42)		
mean_StanceDur * H3000's	0.43 (0.14 to 0.73)			0.51 (0.02 to 1.0)			0.01 (-0.24 to 0.27)		
subj_char.sd(Intercept)	0.86 (NA to NA)			2.0 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.38 (NA to NA)			0.63 (NA to NA)			0.33 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

mean GaitCvcleDur	for Cluster:	6						
	Theta		EEG	Alpha		EEG	Beta	
Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
0.41 (0.01 to 0.81)	0.045	0.060	4.0 (3.1 to 4.8)	< 0.001	< 0.001	2.4 (2.0 to 2.9)	< 0.001	< 0.001
-0.02 (-0.13 to 0.10)	0.78	0.78	0.25 (0.06 to 0.44)	0.010	0.020	0.07 (-0.03 to 0.17)	0.17	0.23
	0.019	0.038		0.034	0.046		0.007	0.014
_			_			_		
0.73 (0.10 to 1.4)			-1.2 (-2.5 to 0.09)			-0.91 (-1.6 to -0.21)		
0.76 (0.16 to 1.4)			-1.6 (-2.8 to -0.32)			-0.94 (-1.6 to -0.28)		
	0.017	0.038		0.10	0.10		0.25	0.25
-0.05 (-0.29 to 0.19)			0.07 (-0.32 to 0.46)			0.17 (-0.03 to 0.38)		
0.35 (0.09 to 0.60)			0.46 (0.04 to 0.87)			0.04 (-0.18 to 0.26)		
0.87 (NA to NA)			2.0 (NA to NA)			1.1 (NA to NA)		
0.38 (NA to NA)			0.63 (NA to NA)			0.33 (NA to NA)		
	Beta (95% CI) 0.41 (0.01 to 0.81) -0.02 (-0.13 to 0.10)	EEG Theta Beta (95% CI) p-value 0.41 (0.01 to 0.81) 0.045 -0.02 (-0.13 to 0.10) 0.78 0.019 0.019 0.73 (0.10 to 1.4) 0.076 (0.16 to 1.4) 0.76 (0.16 to 1.4) 0.017 -0.05 (-0.29 to 0.19) 0.35 (0.09 to 0.60) 0.87 (NA to NA) 0.87 (NA to NA)	EEG Theta Beta (95% CI) p-value q-value 0.41 (0.01 to 0.81) 0.045 0.060 -0.02 (-0.13 to 0.10) 0.78 0.78 0.019 0.038 0.73 (0.10 to 1.4) 0.019 0.76 (0.16 to 1.4) 0.017 0.038 -0.05 (-0.29 to 0.19) 0.037 0.038 0.35 (0.09 to 0.60) 0.87 (NA to NA) 0.87 (NA to NA)	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

Changes in	mean_PeakUpDownVel_mean	for Cluster:	6						
	EEG The	ta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.33 (-0.05 to 0.71)	0.087	0.12	4.7 (3.8 to 5.5)	< 0.001	< 0.001	2.6 (2.2 to 3.0)	< 0.001	< 0.001
mean_PeakUpDownVel_mean	0.22 (-0.48 to 0.92)	0.54	0.54	-0.87 (-2.0 to 0.29)	0.14	0.23	-0.22 (-0.81 to 0.37)	0.46	0.46
group_char		< 0.001	< 0.001		0.17	0.23		0.035	0.070
H1000's	_			_			_		
H2000's	0.69 (0.12 to 1.2)			-1.1 (-2.3 to 0.14)			-0.48 (-1.1 to 0.18)		
H3000's	1.5 (0.99 to 2.1)			-0.84 (-2.0 to 0.31)			-0.81 (-1.4 to -0.19)		
mean_PeakUpDownVel_mean * group_char		0.048	0.10		0.66	0.66		0.24	0.32
mean_PeakUpDownVel_mean * H2000's	-0.11 (-1.1 to 0.87)			-0.36 (-2.0 to 1.3)			-0.72 (-1.5 to 0.11)		
mean_PeakUpDownVel_mean * H3000's	-1.1 (-2.0 to -0.12)			-0.73 (-2.3 to 0.85)			-0.41 (-1.2 to 0.40)		
subj_char.sd(Intercept)	0.86 (NA to NA)			2.0 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.39 (NA to NA)			0.64 (NA to NA)			0.33 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Residual.sd __Observation ¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Changes in	mean_APexc_COV	for Cluster:	7						
-	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.27 (-0.06 to 0.60)	0.11	0.44	2.9 (1.6 to 4.2)	< 0.001	< 0.001	2.7 (2.0 to 3.4)	< 0.001	< 0.001
mean_APexc_COV	0.01 (-0.01 to 0.02)	0.27	0.54	0.01 (-0.03 to 0.06)	0.58	0.81	0.00 (-0.02 to 0.03)	0.70	0.70
group_char		0.43	0.58		0.60	0.81		0.32	0.52
H1000's	_			_			_		
H2000's	-0.34 (-0.91 to 0.24)			-0.93 (-3.1 to 1.3)			0.80 (-0.45 to 2.0)		
H3000's	-0.24 (-0.72 to 0.23)			-0.82 (-2.7 to 1.0)			0.68 (-0.37 to 1.7)		
mean_APexc_COV * group_char		0.80	0.80		0.83	0.83		0.39	0.52
mean_APexc_COV * H2000's	-0.01 (-0.03 to 0.01)			0.00 (-0.07 to 0.07)			0.00 (-0.04 to 0.04)		
mean_APexc_COV * H3000's	0.00 (-0.02 to 0.01)			0.01 (-0.04 to 0.07)			0.02 (-0.01 to 0.05)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.7 (NA to NA)			1.6 (NA to NA)		
Residual.sdObservation	0.22 (NA to NA)			0.74 (NA to NA)			0.41 (NA to NA)		

Changes in	mean_APexc_mean	for Cluster:	7						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.37 (0.07 to 0.67)	0.015	0.062	2.8 (1.5 to 4.0)	< 0.001	< 0.001	2.3 (1.6 to 3.0)	< 0.001	< 0.001
mean_APexc_mean	0.35 (-2.7 to 3.4)	0.82	0.82	6.9 (-3.2 to 17)	0.18	0.36	8.5 (3.0 to 14)	0.002	0.005
group_char		0.69	0.82		0.62	0.74		0.047	0.063
H1000's	_			_			_		
H2000's	-0.16 (-0.64 to 0.33)			-0.95 (-2.9 to 1.0)			0.87 (-0.25 to 2.0)		
H3000's	-0.18 (-0.60 to 0.25)			-0.53 (-2.3 to 1.2)			1.2 (0.23 to 2.2)		
mean_APexc_mean * group_char		0.079	0.16		0.74	0.74		0.91	0.91
mean_APexc_mean * H2000's	-6.0 (-11 to -0.73)			2.7 (-15 to 20)			1.5 (-7.9 to 11)		
mean_APexc_mean * H3000's	-1.4 (-6.1 to 3.4)			6.3 (-9.6 to 22)			1.8 (-6.7 to 10)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.7 (NA to NA)			1.6 (NA to NA)		
Residual.sdObservation	0.22 (NA to NA)			0.73 (NA to NA)			0.39 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

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 False discovery rate correction for multiple testing

Changes in	mean_MLexc_COV	for Cluster:	7						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.25 (-0.06 to 0.57)	0.11	0.20	3.0 (1.8 to 4.3)	< 0.001	< 0.001	2.9 (2.2 to 3.6)	< 0.001	< 0.001
mean_MLexc_COV	0.01 (0.00 to 0.02)	0.15	0.20	0.01 (-0.04 to 0.06)	0.76	0.86	-0.01 (-0.04 to 0.02)	0.46	0.46
group_char		0.12	0.20		0.86	0.86		0.037	0.049
H1000's	_			_			_		
H2000's	-0.50 (-1.0 to -0.01)			-0.11 (-2.1 to 1.9)			1.4 (0.25 to 2.5)		
H3000's	-0.30 (-0.74 to 0.14)			-0.48 (-2.3 to 1.3)			0.97 (-0.03 to 2.0)		
mean_MLexc_COV * group_char		0.91	0.91		0.11	0.23		0.013	0.026
mean_MLexc_COV * H2000's	0.00 (-0.02 to 0.02)			-0.05 (-0.12 to 0.01)			-0.03 (-0.07 to 0.00)		
mean_MLexc_COV * H3000's	0.00 (-0.01 to 0.02)			0.01 (-0.05 to 0.07)			0.01 (-0.02 to 0.05)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.7 (NA to NA)			1.6 (NA to NA)		
Residual.sdObservation	0.22 (NA to NA)			0.74 (NA to NA)			0.41 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	7						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.47 (0.17 to 0.76)	0.002	0.008	3.0 (1.8 to 4.2)	< 0.001	< 0.001	2.4 (1.8 to 3.1)	< 0.001	< 0.001
mean_MLexc_mean	-0.89 (-2.7 to 0.90)	0.33	0.48	1.5 (-4.6 to 7.5)	0.64	0.64	4.2 (1.0 to 7.4)	0.010	0.019
group_char		0.48	0.48		0.35	0.47		0.11	0.14
H1000's	_			_			_		
H2000's	-0.28 (-0.75 to 0.18)			-1.4 (-3.3 to 0.54)			0.72 (-0.36 to 1.8)		
H3000's	-0.15 (-0.56 to 0.27)			-0.80 (-2.5 to 0.89)			1.0 (0.06 to 2.0)		
mean_MLexc_mean * group_char		0.38	0.48		0.35	0.47		0.64	0.64
mean_MLexc_mean * H2000's	-1.7 (-4.2 to 0.72)			5.3 (-3.1 to 14)			1.5 (-2.8 to 5.8)		
mean_MLexc_mean * H3000's	-1.1 (-3.5 to 1.3)			5.3 (-2.8 to 13)			2.0 (-2.2 to 6.2)		
subj_char.sd(Intercept)	0.64 (NA to NA)			2.7 (NA to NA)			1.6 (NA to NA)		
Residual.sdObservation	0.22 (NA to NA)			0.73 (NA to NA)			0.38 (NA to NA)		

CI = Confidence Interval
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Changes in	mean_StepDur	for Cluster:	7						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.43 (0.15 to 0.71)	0.003	0.011	2.8 (1.6 to 3.9)	< 0.001	< 0.001	2.4 (1.7 to 3.0)	< 0.001	< 0.001
mean_StepDur	-0.04 (-0.18 to 0.10)	0.56	0.72	0.39 (-0.07 to 0.85)	0.10	0.20	0.45 (0.20 to 0.69)	< 0.001	< 0.001
group_char		0.72	0.72		0.42	0.42		0.069	0.092
H1000's	_			_			_		
H2000's	-0.19 (-0.66 to 0.28)			-1.3 (-3.2 to 0.67)			0.68 (-0.42 to 1.8)		
H3000's	-0.09 (-0.52 to 0.33)			-0.68 (-2.4 to 1.1)			1.2 (0.17 to 2.1)		
mean_StepDur * group_char		0.056	0.11		0.36	0.42		0.46	0.46
mean_StepDur * H2000's	-0.33 (-0.62 to -0.04)			0.56 (-0.42 to 1.5)			0.32 (-0.20 to 0.83)		
mean_StepDur * H3000's	-0.22 (-0.52 to 0.08)			0.56 (-0.44 to 1.6)			0.17 (-0.37 to 0.70)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.7 (NA to NA)			1.6 (NA to NA)		
Residual.sdObservation	0.22 (NA to NA)			0.73 (NA to NA)			0.39 (NA to NA)		

Changes in	mean_UDexc_COV	for Cluster:	7						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.43 (0.15 to 0.70)	0.002	0.009	3.1 (1.9 to 4.2)	< 0.001	< 0.001	2.6 (1.9 to 3.2)	< 0.001	< 0.001
mean_UDexc_COV	0.00 (-0.01 to 0.01)	0.51	0.65	0.00 (-0.03 to 0.03)	0.82	0.82	0.02 (0.00 to 0.03)	0.022	0.045
group_char		0.28	0.57		0.37	0.50		0.17	0.22
H1000's	_			_			_		
H2000's	-0.35 (-0.80 to 0.09)			-1.3 (-3.1 to 0.60)			0.71 (-0.35 to 1.8)		
H3000's	-0.19 (-0.60 to 0.21)			-0.82 (-2.5 to 0.86)			0.87 (-0.09 to 1.8)		
mean_UDexc_COV * group_char		0.65	0.65		0.29	0.50		0.26	0.26
mean_UDexc_COV * H2000's	-0.01 (-0.02 to 0.01)			0.03 (-0.02 to 0.08)			0.01 (-0.01 to 0.04)		
mean_UDexc_COV * H3000's	0.00 (-0.02 to 0.01)			0.03 (-0.01 to 0.08)			0.02 (0.00 to 0.04)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.8 (NA to NA)			1.6 (NA to NA)		
Residual.sdObservation	0.22 (NA to NA)			0.73 (NA to NA)			0.38 (NA to NA)		

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Changes in	mean_UDexc_mean	for Cluster:	7						
	EEG	Theta		EEG	Alpha		EEC	6 Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.32 (0.04 to 0.61)	0.025	0.10	3.2 (2.0 to 4.3)	< 0.001	< 0.001	3.1 (2.4 to 3.7)	< 0.001	< 0.001
mean_UDexc_mean	2.9 (-2.5 to 8.3)	0.29	0.39	-1.9 (-20 to 16)	0.83	0.95	-12 (-22 to -2.8)	0.011	0.023
group_char		0.059	0.12		0.95	0.95		0.023	0.030
H1000's	_			_			_		
H2000's	-0.55 (-1.0 to -0.09)			-0.28 (-2.2 to 1.6)			1.1 (0.06 to 2.2)		
H3000's	-0.29 (-0.69 to 0.12)			0.01 (-1.7 to 1.7)			1.2 (0.28 to 2.2)		
mean_UDexc_mean * group_char		0.58	0.58		0.20	0.39		0.33	0.33
mean_UDexc_mean * H2000's	4.6 (-4.1 to 13)			-25 (-54 to 3.6)			-11 (-27 to 3.8)		
mean_UDexc_mean * H3000's	2.2 (-5.4 to 9.8)			-16 (-42 to 9.0)			-2.8 (-16 to 11)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.8 (NA to NA)			1.6 (NA to NA)		
Residual.sdObservation	0.22 (NA to NA)			0.73 (NA to NA)			0.39 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	7						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.42 (0.15 to 0.69)	0.002	0.010	2.9 (1.7 to 4.0)	< 0.001	< 0.001	2.5 (1.8 to 3.1)	< 0.001	< 0.001
mean_StanceDur	-0.02 (-0.10 to 0.06)	0.60	0.60	0.23 (-0.04 to 0.50)	0.10	0.20	0.26 (0.12 to 0.41)	< 0.001	< 0.001
group_char		0.54	0.60		0.44	0.44		0.059	0.079
H1000's	_			_			_		
H2000's	-0.25 (-0.70 to 0.20)			-1.2 (-3.1 to 0.67)			0.72 (-0.35 to 1.8)		
H3000's	-0.12 (-0.52 to 0.29)			-0.66 (-2.3 to 1.0)			1.1 (0.19 to 2.1)		
mean_StanceDur * group_char		0.066	0.13		0.29	0.39		0.43	0.43
mean_StanceDur * H2000's	-0.18 (-0.36 to -0.01)			0.35 (-0.22 to 0.92)			0.19 (-0.12 to 0.49)		
mean_StanceDur * H3000's	-0.13 (-0.31 to 0.04)			0.37 (-0.21 to 0.95)			0.12 (-0.19 to 0.43)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.7 (NA to NA)			1.6 (NA to NA)		
Residual.sdObservation	0.22 (NA to NA)			0.72 (NA to NA)			0.39 (NA to NA)		

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 False discovery rate correction for multiple testing

Changes in	mean_GaitCycleDur	for Cluster:	7						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.43 (0.15 to 0.71)	0.003	0.011	2.8 (1.6 to 3.9)	< 0.001	< 0.001	2.4 (1.7 to 3.0)	< 0.001	< 0.001
mean_GaitCycleDur	-0.02 (-0.09 to 0.05)	0.57	0.72	0.19 (-0.04 to 0.42)	0.10	0.20	0.22 (0.10 to 0.35)	< 0.001	< 0.001
group_char		0.72	0.72		0.43	0.43		0.068	0.091
H1000's	_			_			_		
H2000's	-0.19 (-0.66 to 0.28)			-1.3 (-3.2 to 0.68)			0.69 (-0.42 to 1.8)		
H3000's	-0.09 (-0.52 to 0.33)			-0.68 (-2.4 to 1.1)			1.2 (0.17 to 2.1)		
mean_GaitCycleDur * group_char		0.055	0.11		0.37	0.43		0.47	0.47
mean_GaitCycleDur * H2000's	-0.16 (-0.31 to -0.02)			0.27 (-0.21 to 0.76)			0.16 (-0.10 to 0.41)		
mean_GaitCycleDur * H3000's	-0.11 (-0.26 to 0.04)			0.28 (-0.22 to 0.78)			0.08 (-0.18 to 0.35)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.7 (NA to NA)			1.6 (NA to NA)		
Residual.sdObservation	0.22 (NA to NA)			0.73 (NA to NA)			0.39 (NA to NA)		

¹ CI = Confidence Interval

Changes in	mean_PeakUpDownVel_mean	for Cluster:	7						
	EEG The	ta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.35 (0.08 to 0.62)	0.011	0.044	3.2 (2.1 to 4.3)	< 0.001	< 0.001	3.0 (2.4 to 3.6)	< 0.001	< 0.001
mean_PeakUpDownVel_mean	0.19 (-0.21 to 0.59)	0.35	0.35	-0.21 (-1.6 to 1.1)	0.76	0.87	-0.93 (-1.6 to -0.22)	0.011	0.021
group_char		0.033	0.066		0.87	0.87		0.017	0.022
H1000's	_			_			_		
H2000's	-0.57 (-1.0 to -0.13)			-0.45 (-2.3 to 1.4)			1.1 (0.06 to 2.2)		
H3000's	-0.33 (-0.71 to 0.06)			0.00 (-1.6 to 1.6)			1.3 (0.34 to 2.2)		
mean_PeakUpDownVel_mean * group_char		0.28	0.35		0.19	0.38		0.31	0.31
mean_PeakUpDownVel_mean * H2000's	0.48 (-0.16 to 1.1)			-1.7 (-3.9 to 0.45)			-0.88 (-2.0 to 0.25)		
mean_PeakUpDownVel_mean * H3000's	0.35 (-0.21 to 0.92)			-1.5 (-3.4 to 0.41)			-0.33 (-1.3 to 0.67)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.7 (NA to NA)			1.6 (NA to NA)		
Residual.sdObservation	0.22 (NA to NA)			0.73 (NA to NA)			0.38 (NA to NA)		

 $^{^2}$ False discovery rate correction for multiple testing

Residual.sd__Observation | 1 CI = Confidence Interval | 2 False discovery rate correction for multiple testing

Changes in	mean_APexc_COV	for Cluster:	8						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.0 (0.53 to 1.6)	< 0.001	< 0.001	1.1 (0.31 to 1.9)	0.007	0.028	0.72 (0.15 to 1.3)	0.013	0.053
mean_APexc_COV	0.00 (-0.02 to 0.03)	0.76	0.76	0.01 (-0.02 to 0.05)	0.55	0.70	0.00 (-0.02 to 0.02)	0.88	0.88
group_char		0.65	0.76		0.70	0.70		0.054	0.11
H1000's	_			_			_		
H2000's	-0.38 (-1.2 to 0.42)			0.44 (-0.81 to 1.7)			0.90 (0.05 to 1.7)		
H3000's	-0.21 (-0.97 to 0.56)			0.45 (-0.75 to 1.6)			0.88 (0.04 to 1.7)		
mean_APexc_COV * group_char		0.65	0.76		0.10	0.20		0.12	0.16
mean_APexc_COV * H2000's	-0.01 (-0.04 to 0.02)			-0.04 (-0.09 to 0.01)			-0.02 (-0.04 to 0.01)		
mean_APexc_COV * H3000's	-0.01 (-0.04 to 0.01)			0.01 (-0.04 to 0.05)			0.00 (-0.02 to 0.02)		
subj_char.sd(Intercept)	0.83 (NA to NA)			1.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.32 (NA to NA)			0.51 (NA to NA)			0.24 (NA to NA)		

Changes in	mean_APexc_mean	for Cluster:	8						
	EEG	Theta	,	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.5 (0.98 to 1.9)	< 0.001	< 0.001	1.0 (0.28 to 1.8)	0.007	0.027	0.59 (0.05 to 1.1)	0.031	0.062
mean_APexc_mean	-6.5 (-12 to -1.4)	0.012	0.024	4.9 (-3.3 to 13)	0.24	0.32	2.0 (-1.8 to 5.7)	0.30	0.30
group_char		0.078	0.10		0.17	0.32		0.12	0.16
H1000's	_			_			_		
H2000's	-0.75 (-1.5 to -0.05)			-0.57 (-1.7 to 0.52)			0.13 (-0.65 to 0.91)		
H3000's	-0.61 (-1.3 to 0.08)			0.49 (-0.57 to 1.6)			0.79 (0.00 to 1.6)		
mean_APexc_mean * group_char		0.94	0.94		0.46	0.46		0.021	0.062
mean_APexc_mean * H2000's	1.2 (-7.9 to 10)			7.1 (-7.8 to 22)			9.4 (2.6 to 16)		
mean_APexc_mean * H3000's	1.2 (-6.8 to 9.2)			7.3 (-5.8 to 20)			4.5 (-1.5 to 10)		
subj_char.sd(Intercept)	0.85 (NA to NA)			1.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.51 (NA to NA)			0.23 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Changes in	mean_MLexc_COV	for Cluster:	8						
	EEG	Theta	,	EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.72 (0.21 to 1.2)	0.006	0.024	1.4 (0.64 to 2.2)	< 0.001	0.001	0.62 (0.06 to 1.2)	0.031	0.054
mean_MLexc_COV	0.03 (0.00 to 0.05)	0.027	0.053	-0.01 (-0.05 to 0.03)	0.59	0.77	0.01 (-0.01 to 0.02)	0.56	0.56
group_char		0.42	0.56		0.77	0.77		0.041	0.054
H1000's	_			_			_		
H2000's	-0.44 (-1.1 to 0.25)			-0.28 (-1.3 to 0.77)			0.89 (0.10 to 1.7)		
H3000's	-0.38 (-1.1 to 0.36)			-0.40 (-1.5 to 0.73)			0.91 (0.09 to 1.7)		
mean_MLexc_COV * group_char		0.69	0.69		< 0.001	0.001		0.005	0.018
mean_MLexc_COV * H2000's	-0.01 (-0.04 to 0.02)			0.00 (-0.05 to 0.04)			-0.03 (-0.05 to -0.01)		
mean_MLexc_COV * H3000's	-0.01 (-0.04 to 0.02)			0.08 (0.03 to 0.13)			0.00 (-0.02 to 0.03)		
subj_char.sd(Intercept)	0.84 (NA to NA)			1.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.50 (NA to NA)			0.24 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	8						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.5 (1.0 to 1.9)	< 0.001	< 0.001	1.1 (0.37 to 1.8)	0.003	0.011	0.63 (0.09 to 1.2)	0.021	0.086
mean_MLexc_mean	-4.5 (-7.5 to -1.6)	0.003	0.005	2.7 (-2.3 to 7.7)	0.29	0.38	0.92 (-1.3 to 3.2)	0.43	0.43
group_char		0.047	0.063		0.070	0.14		0.089	0.18
H1000's	_			_			_		
H2000's	-0.78 (-1.4 to -0.14)			-0.39 (-1.4 to 0.59)			0.28 (-0.48 to 1.0)		
H3000's	-0.57 (-1.2 to 0.09)			0.79 (-0.24 to 1.8)			0.87 (0.08 to 1.7)		
mean_MLexc_mean * group_char		0.48	0.48		0.93	0.93		0.19	0.26
mean_MLexc_mean * H2000's	2.3 (-1.4 to 5.9)			0.39 (-5.8 to 6.6)			2.5 (-0.33 to 5.2)		
mean_MLexc_mean * H3000's	1.5 (-2.5 to 5.4)			-0.74 (-7.5 to 6.0)			0.91 (-2.1 to 4.0)		
subj_char.sd(Intercept)	0.85 (NA to NA)			1.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.30 (NA to NA)			0.51 (NA to NA)			0.23 (NA to NA)		

CI = Confidence Interval
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Changes in	mean_StepDur	for Cluster:	8						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.5 (1.0 to 1.9)	< 0.001	< 0.001	1.1 (0.39 to 1.7)	0.002	0.008	0.60 (0.08 to 1.1)	0.024	0.048
mean_StepDur	-0.38 (-0.59 to -0.17)	< 0.001	< 0.001	0.24 (-0.12 to 0.60)	0.18	0.35	0.11 (-0.05 to 0.27)	0.19	0.19
group_char		0.10	0.14		0.26	0.35		0.16	0.19
H1000's	_			_			_		
H2000's	-0.70 (-1.4 to -0.05)			-0.51 (-1.5 to 0.50)			0.15 (-0.62 to 0.91)		
H3000's	-0.36 (-1.1 to 0.35)			0.45 (-0.66 to 1.6)			0.76 (-0.04 to 1.6)		
mean_StepDur * group_char		0.55	0.55		0.47	0.47		0.005	0.019
mean_StepDur * H2000's	0.03 (-0.39 to 0.44)			0.30 (-0.40 to 1.0)			0.51 (0.19 to 0.82)		
mean_StepDur * H3000's	-0.30 (-0.87 to 0.26)			0.52 (-0.45 to 1.5)			0.32 (-0.12 to 0.76)		
subj_char.sd(Intercept)	0.85 (NA to NA)			1.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.30 (NA to NA)			0.51 (NA to NA)			0.23 (NA to NA)		

- Cu	TID CON	C CT :							
Changes in	mean_UDexc_COV	for Cluster:	8						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.4 (0.96 to 1.8)	< 0.001	< 0.001	1.2 (0.52 to 1.8)	< 0.001	0.002	0.65 (0.13 to 1.2)	0.015	0.060
mean_UDexc_COV	-0.02 (-0.04 to -0.01)	0.002	0.004	0.01 (-0.02 to 0.03)	0.50	0.66	0.00 (-0.01 to 0.02)	0.50	0.50
group_char		0.070	0.094		0.12	0.23		0.065	0.13
H1000's	_			_			_		
H2000's	-0.69 (-1.3 to -0.08)			-0.30 (-1.3 to 0.65)			0.36 (-0.40 to 1.1)		
H3000's	-0.52 (-1.2 to 0.12)			0.76 (-0.25 to 1.8)			0.93 (0.15 to 1.7)		
mean_UDexc_COV * group_char		0.79	0.79		0.99	0.99		0.31	0.41
mean_UDexc_COV * H2000's	0.01 (-0.01 to 0.03)			0.00 (-0.04 to 0.03)			0.01 (0.00 to 0.03)		
mean_UDexc_COV * H3000's	0.01 (-0.02 to 0.03)			0.00 (-0.04 to 0.03)			0.00 (-0.02 to 0.02)		
subj_char.sd(Intercept)	0.84 (NA to NA)			1.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.30 (NA to NA)			0.52 (NA to NA)			0.24 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Changes in	mean_UDexc_mean	for Cluster:	8						
	EEG	Theta		EEG	Alpha		EEC	6 Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.75 (0.31 to 1.2)	< 0.001	0.001	1.3 (0.61 to 2.0)	< 0.001	< 0.001	0.70 (0.17 to 1.2)	0.009	0.038
mean_UDexc_mean	15 (6.9 to 24)	< 0.001	0.001	-0.18 (-15 to 15)	0.98	0.98	0.13 (-6.6 to 6.8)	0.97	0.97
group_char		0.18	0.25		0.20	0.40		0.019	0.039
H1000's	_			_			_		
H2000's	-0.54 (-1.2 to 0.07)			-0.17 (-1.1 to 0.79)			0.79 (0.04 to 1.5)		
H3000's	-0.45 (-1.1 to 0.20)			0.72 (-0.30 to 1.7)			1.1 (0.28 to 1.8)		
mean_UDexc_mean * group_char		0.80	0.80		0.73	0.97		0.034	0.046
mean_UDexc_mean * H2000's	-3.6 (-15 to 7.5)			-6.5 (-26 to 13)			-12 (-20 to -2.6)		
mean_UDexc_mean * H3000's	-3.0 (-15 to 9.0)			0.78 (-20 to 22)			-3.9 (-14 to 5.8)		
subj_char.sd(Intercept)	0.85 (NA to NA)			1.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.29 (NA to NA)			0.52 (NA to NA)			0.23 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	8						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.4 (0.96 to 1.8)	< 0.001	< 0.001	1.1 (0.46 to 1.7)	< 0.001	0.003	0.62 (0.10 to 1.1)	0.020	0.039
mean_StanceDur	-0.22 (-0.34 to -0.09)	< 0.001	0.001	0.15 (-0.06 to 0.36)	0.16	0.32	0.07 (-0.03 to 0.16)	0.16	0.16
group_char		0.091	0.12		0.25	0.33		0.12	0.15
H1000's	_			_			_		
H2000's	-0.68 (-1.3 to -0.06)			-0.43 (-1.4 to 0.52)			0.24 (-0.50 to 0.99)		
H3000's	-0.42 (-1.1 to 0.23)			0.47 (-0.55 to 1.5)			0.82 (0.04 to 1.6)		
mean_StanceDur * group_char		0.71	0.71		0.43	0.43		0.010	0.039
mean_StanceDur * H2000's	0.00 (-0.24 to 0.25)			0.14 (-0.27 to 0.55)			0.28 (0.09 to 0.47)		
mean_StanceDur * H3000's	-0.13 (-0.46 to 0.19)			0.34 (-0.21 to 0.89)			0.17 (-0.08 to 0.42)		
subj_char.sd(Intercept)	0.85 (NA to NA)			1.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.30 (NA to NA)			0.51 (NA to NA)			0.23 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

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 False discovery rate correction for multiple testing

Changes in	mean_GaitCycleDur	for Cluster:	8						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.4 (1.0 to 1.9)	< 0.001	< 0.001	1.1 (0.39 to 1.7)	0.002	0.008	0.60 (0.08 to 1.1)	0.024	0.048
mean_GaitCycleDur	-0.19 (-0.29 to -0.08)	< 0.001	< 0.001	0.12 (-0.06 to 0.30)	0.18	0.35	0.05 (-0.03 to 0.13)	0.19	0.19
group_char		0.10	0.14		0.26	0.35		0.15	0.19
H1000's	_			_			_		
H2000's	-0.70 (-1.4 to -0.05)			-0.51 (-1.5 to 0.50)			0.15 (-0.62 to 0.91)		
H3000's	-0.36 (-1.1 to 0.34)			0.45 (-0.66 to 1.6)			0.77 (-0.04 to 1.6)		
mean_GaitCycleDur * group_char		0.56	0.56		0.46	0.46		0.005	0.020
mean_GaitCycleDur * H2000's	0.01 (-0.19 to 0.22)			0.15 (-0.20 to 0.50)			0.25 (0.10 to 0.41)		
mean_GaitCycleDur * H3000's	-0.15 (-0.43 to 0.13)			0.26 (-0.22 to 0.74)			0.16 (-0.06 to 0.38)		
subj_char.sd(Intercept)	0.85 (NA to NA)			1.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.30 (NA to NA)			0.51 (NA to NA)			0.23 (NA to NA)		
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Changes in	mean PeakUpDownVel mean	for Cluster	8						
Oliungoo iii	EEG The			EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)		q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.85 (0.44 to 1.3)	< 0.001	< 0.001	1.3 (0.70 to 2.0)	< 0.001	< 0.001	0.71 (0.19 to 1.2)	0.007	0.030
mean_PeakUpDownVel_mean	1.1 (0.43 to 1.7)	< 0.001	0.002	-0.21 (-1.3 to 0.89)	0.71	0.88	-0.02 (-0.51 to 0.48)	0.94	0.94
group_char		0.12	0.16		0.088	0.18		0.017	0.034
H1000's	_			_			_		
H2000's	-0.59 (-1.2 to 0.00)			-0.22 (-1.1 to 0.69)			0.74 (0.00 to 1.5)		
H3000's	-0.45 (-1.1 to 0.17)			0.82 (-0.14 to 1.8)			1.1 (0.31 to 1.8)		
mean_PeakUpDownVel_mean * group_char		0.83	0.83		0.88	0.88		0.033	0.044
mean_PeakUpDownVel_mean * H2000's	-0.21 (-1.1 to 0.65)			-0.38 (-1.9 to 1.1)			-0.89 (-1.6 to -0.22)		
mean_PeakUpDownVel_mean * H3000's	-0.27 (-1.2 to 0.64)			-0.24 (-1.8 to 1.3)			-0.43 (-1.1 to 0.29)		
subj_char.sd(Intercept)	0.85 (NA to NA)			1.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.30 (NA to NA)			0.52 (NA to NA)			0.23 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Residual.sd__Observation | 1 CI = Confidence Interval | 2 False discovery rate correction for multiple testing

Changes in	mean_APexc_COV	for Cluster:	9						
	EEG Theta			EEG Alpha			EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.72 (0.30 to 1.1)	< 0.001	0.003	2.4 (1.2 to 3.6)	< 0.001	< 0.001	1.4 (0.75 to 2.0)	< 0.001	< 0.001
mean_APexc_COV	0.00 (-0.02 to 0.02)	0.71	0.94	0.02 (-0.02 to 0.05)	0.43	0.58	0.01 (-0.01 to 0.02)	0.60	0.79
group_char		0.94	0.94		0.34	0.58		0.22	0.43
H1000's	_			_			_		
H2000's	-0.12 (-0.81 to 0.57)			0.39 (-1.5 to 2.3)			0.87 (-0.15 to 1.9)		
H3000's	-0.02 (-0.70 to 0.67)			-1.1 (-3.0 to 0.80)			0.12 (-0.91 to 1.2)		
mean_APexc_COV * group_char		0.87	0.94		0.80	0.80		0.79	0.79
mean_APexc_COV * H2000's	0.00 (-0.03 to 0.03)			-0.01 (-0.07 to 0.04)			-0.01 (-0.03 to 0.02)		
mean_APexc_COV * H3000's	-0.01 (-0.04 to 0.02)			-0.02 (-0.07 to 0.03)			0.00 (-0.02 to 0.03)		
subj_char.sd(Intercept)	0.60 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.32 (NA to NA)			0.57 (NA to NA)			0.28 (NA to NA)		

Changes in	mean_APexc_mean	for Cluster:	9						
	EEG Theta			EEG Alpha			EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.79 (0.44 to 1.1)	< 0.001	< 0.001	2.2 (1.1 to 3.3)	< 0.001	< 0.001	1.3 (0.66 to 1.9)	< 0.001	< 0.001
mean_APexc_mean	-2.6 (-6.9 to 1.8)	0.25	0.31	8.1 (0.28 to 16)	0.042	0.085	3.6 (-0.16 to 7.4)	0.061	0.084
group_char		0.31	0.31		0.63	0.63		0.47	0.47
H1000's	_			_			_		
H2000's	-0.34 (-0.86 to 0.19)			0.21 (-1.5 to 1.9)			0.55 (-0.38 to 1.5)		
H3000's	0.08 (-0.49 to 0.66)			-0.66 (-2.4 to 1.1)			0.43 (-0.54 to 1.4)		
mean_APexc_mean * group_char		0.10	0.21		0.19	0.25		0.063	0.084
mean_APexc_mean * H2000's	1.9 (-5.6 to 9.4)			1.6 (-12 to 15)			5.5 (-1.1 to 12)		
mean_APexc_mean * H3000's	-8.6 (-18 to 0.54)			-14 (-31 to 2.3)			-4.8 (-13 to 3.2)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.56 (NA to NA)			0.27 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Changes in	mean_MLexc_COV	for Cluster:	9						
	EEG Theta			EEG Alpha			EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.51 (0.14 to 0.88)	0.007	0.027	2.6 (1.5 to 3.8)	< 0.001	< 0.001	1.5 (0.84 to 2.1)	< 0.001	< 0.001
mean_MLexc_COV	0.01 (-0.01 to 0.03)	0.30	0.49	0.00 (-0.03 to 0.04)	0.88	0.97	0.00 (-0.02 to 0.02)	0.95	0.95
group_char		0.39	0.49		0.22	0.43		0.11	0.21
H1000's	_			_			_		
H2000's	-0.37 (-0.91 to 0.16)			0.24 (-1.4 to 1.9)			1.0 (0.06 to 1.9)		
H3000's	-0.16 (-0.73 to 0.41)			-1.3 (-3.0 to 0.47)			0.31 (-0.66 to 1.3)		
mean_MLexc_COV * group_char		0.49	0.49		0.97	0.97		0.28	0.38
mean_MLexc_COV * H2000's	0.01 (-0.01 to 0.04)			0.00 (-0.05 to 0.04)			-0.02 (-0.04 to 0.00)		
mean_MLexc_COV * H3000's	0.00 (-0.03 to 0.02)			-0.01 (-0.06 to 0.05)			-0.01 (-0.03 to 0.02)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.32 (NA to NA)			0.57 (NA to NA)			0.28 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	9						
	EEG Theta			EEG Alpha			EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.80 (0.46 to 1.1)	< 0.001	< 0.001	2.4 (1.3 to 3.5)	< 0.001	< 0.001	1.4 (0.75 to 2.0)	< 0.001	< 0.001
mean_MLexc_mean	-1.8 (-4.6 to 0.99)	0.20	0.41	2.7 (-2.4 to 7.9)	0.30	0.45	1.4 (-1.0 to 3.9)	0.25	0.34
group_char		0.72	0.96		0.34	0.45		0.52	0.52
H1000's	_			_			_		
H2000's	-0.18 (-0.68 to 0.32)			0.15 (-1.5 to 1.8)			0.54 (-0.38 to 1.5)		
H3000's	-0.18 (-0.71 to 0.34)			-1.1 (-2.8 to 0.63)			0.21 (-0.74 to 1.2)		
mean_MLexc_mean * group_char		0.97	0.97		0.54	0.54		0.22	0.34
mean_MLexc_mean * H2000's	-0.34 (-4.0 to 3.3)			0.14 (-6.5 to 6.8)			2.2 (-0.97 to 5.4)		
mean_MLexc_mean * H3000's	-0.50 (-4.6 to 3.6)			-3.5 (-11 to 4.0)			-0.33 (-3.9 to 3.2)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.57 (NA to NA)			0.27 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

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 False discovery rate correction for multiple testing

Changes in	mean_StepDur	for Cluster:	9							
	EEG Theta			EEG	Alpha		EEG Beta			
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	
(Intercept)	0.79 (0.48 to 1.1)	< 0.001	< 0.001	2.3 (1.3 to 3.4)	< 0.001	< 0.001	1.3 (0.73 to 1.9)	< 0.001	< 0.001	
mean_StepDur	-0.15 (-0.35 to 0.04)	0.13	0.26	0.35 (-0.01 to 0.70)	0.056	0.11	0.16 (-0.01 to 0.33)	0.069	0.14	
group_char		0.86	0.86		0.39	0.52		0.58	0.58	
H1000's	_			_			_			
H2000's	-0.14 (-0.66 to 0.37)			0.13 (-1.5 to 1.8)			0.49 (-0.43 to 1.4)			
H3000's	-0.08 (-0.64 to 0.47)			-1.0 (-2.8 to 0.68)			0.23 (-0.73 to 1.2)			
mean_StepDur * group_char		0.55	0.73		0.69	0.69		0.13	0.18	
mean_StepDur * H2000's	-0.14 (-0.56 to 0.29)			0.15 (-0.62 to 0.91)			0.37 (0.00 to 0.74)			
mean_StepDur * H3000's	-0.26 (-0.79 to 0.26)			-0.34 (-1.3 to 0.60)			-0.01 (-0.47 to 0.44)			
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)			
Residual.sdObservation	0.31 (NA to NA)			0.56 (NA to NA)			0.27 (NA to NA)			

¹ CI = Confidence Interval

	IID CON	e on .							
Changes in	mean_UDexc_COV		9	_					
	EEG Theta			EEG .	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.78 (0.47 to 1.1)	< 0.001	< 0.001	2.5 (1.4 to 3.5)	< 0.001	< 0.001	1.3 (0.75 to 1.9)	< 0.001	< 0.001
mean_UDexc_COV	-0.01 (-0.02 to 0.00)	0.13	0.27	0.02 (-0.01 to 0.04)	0.20	0.30	0.01 (0.00 to 0.02)	0.062	0.12
group_char		0.57	0.76		0.23	0.30		0.29	0.39
H1000's	_			_			_		
H2000's	-0.22 (-0.67 to 0.24)			0.21 (-1.4 to 1.8)			0.71 (-0.19 to 1.6)		
H3000's	-0.21 (-0.70 to 0.28)			-1.2 (-2.9 to 0.45)			0.17 (-0.77 to 1.1)		
mean_UDexc_COV * group_char		>0.99	>0.99		0.82	0.82		0.97	0.97
mean_UDexc_COV * H2000's	0.00 (-0.02 to 0.02)			0.00 (-0.04 to 0.03)			0.00 (-0.01 to 0.02)		
mean_UDexc_COV * H3000's	0.00 (-0.02 to 0.02)			-0.01 (-0.05 to 0.03)			0.00 (-0.02 to 0.02)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.32 (NA to NA)			0.57 (NA to NA)			0.27 (NA to NA)		

 $^{^2}$ False discovery rate correction for multiple testing

CI = Confidence Interval
 False discovery rate correction for multiple testing

Changes in	mean_UDexc_mean	for Cluster:	9						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.47 (0.15 to 0.79)	0.004	0.015	2.7 (1.6 to 3.8)	< 0.001	< 0.001	1.6 (0.97 to 2.2)	< 0.001	< 0.001
mean_UDexc_mean	7.7 (-0.40 to 16)	0.063	0.13	-2.0 (-17 to 13)	0.80	0.95	-4.1 (-11 to 3.0)	0.25	0.32
group_char		0.31	0.41		0.17	0.33		0.14	0.28
H1000's	_			_			_		
H2000's	-0.30 (-0.77 to 0.17)			0.26 (-1.3 to 1.9)			0.91 (0.01 to 1.8)		
H3000's	-0.34 (-0.85 to 0.16)			-1.3 (-3.0 to 0.35)			0.36 (-0.58 to 1.3)		
mean_UDexc_mean * group_char		0.79	0.79		0.95	0.95		0.32	0.32
mean_UDexc_mean * H2000's	3.1 (-8.1 to 14)			-3.3 (-24 to 18)			-7.0 (-17 to 2.9)		
mean_UDexc_mean * H3000's	4.0 (-8.2 to 16)			-1.0 (-24 to 22)			-6.4 (-17 to 4.3)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.57 (NA to NA)			0.27 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	9						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.77 (0.47 to 1.1)	< 0.001	< 0.001	2.4 (1.3 to 3.4)	< 0.001	< 0.001	1.4 (0.77 to 2.0)	< 0.001	< 0.001
mean_StanceDur	-0.09 (-0.21 to 0.03)	0.13	0.27	0.21 (0.00 to 0.42)	0.047	0.094	0.09 (-0.01 to 0.20)	0.068	0.14
group_char		0.75	0.75		0.31	0.42		0.46	0.46
H1000's	_			_			_		
H2000's	-0.18 (-0.65 to 0.29)			0.17 (-1.4 to 1.8)			0.58 (-0.33 to 1.5)		
H3000's	-0.11 (-0.61 to 0.39)			-1.1 (-2.8 to 0.57)			0.22 (-0.73 to 1.2)		
mean_StanceDur * group_char		0.57	0.75		0.71	0.71		0.24	0.32
mean_StanceDur * H2000's	-0.06 (-0.31 to 0.18)			0.06 (-0.39 to 0.50)			0.18 (-0.03 to 0.40)		
mean_StanceDur * H3000's	-0.16 (-0.46 to 0.15)			-0.20 (-0.75 to 0.35)			0.00 (-0.27 to 0.26)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.56 (NA to NA)			0.27 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

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 False discovery rate correction for multiple testing

Changes in	mean_GaitCycleDur	for Cluster:	9						
-	EEG	Theta	,	EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.79 (0.48 to 1.1)	< 0.001	< 0.001	2.3 (1.3 to 3.4)	< 0.001	< 0.001	1.3 (0.73 to 1.9)	< 0.001	< 0.001
mean_GaitCycleDur	-0.08 (-0.18 to 0.02)	0.13	0.26	0.17 (0.00 to 0.35)	0.055	0.11	0.08 (-0.01 to 0.16)	0.069	0.14
group_char		0.86	0.86		0.39	0.52		0.58	0.58
H1000's	_			_			_		
H2000's	-0.14 (-0.66 to 0.37)			0.13 (-1.5 to 1.8)			0.49 (-0.43 to 1.4)		
H3000's	-0.08 (-0.63 to 0.48)			-1.0 (-2.8 to 0.68)			0.23 (-0.73 to 1.2)		
mean_GaitCycleDur * group_char		0.54	0.72		0.69	0.69		0.13	0.18
mean_GaitCycleDur * H2000's	-0.07 (-0.28 to 0.14)			0.07 (-0.31 to 0.45)			0.18 (0.00 to 0.37)		
mean_GaitCycleDur * H3000's	-0.13 (-0.40 to 0.13)			-0.17 (-0.64 to 0.30)			-0.01 (-0.23 to 0.22)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.56 (NA to NA)			0.27 (NA to NA)		

Changes in	mean PeakUpDownVel mean	for Cluster	Q						
Changes in	EEG The			EEC	Alpha		EEG	Reta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
			-		1				
(Intercept)	0.53 (0.24 to 0.83)	< 0.001	0.002	2.8 (1.7 to 3.8)	< 0.001	< 0.001	1.5 (0.96 to 2.1)	< 0.001	< 0.001
mean_PeakUpDownVel_mean	0.52 (-0.09 to 1.1)	0.094	0.19	-0.42 (-1.5 to 0.69)	0.46	0.61	-0.30 (-0.82 to 0.22)	0.26	0.26
group_char		0.27	0.35		0.13	0.27		0.12	0.23
H1000's	_			_			_		
H2000's	-0.29 (-0.73 to 0.16)			0.26 (-1.3 to 1.8)			0.93 (0.03 to 1.8)		
H3000's	-0.35 (-0.82 to 0.12)			-1.4 (-3.0 to 0.26)			0.33 (-0.60 to 1.3)		
mean_PeakUpDownVel_mean * group_char		0.75	0.75		0.88	0.88		0.17	0.23
mean_PeakUpDownVel_mean * H2000's	0.20 (-0.65 to 1.0)			-0.26 (-1.8 to 1.3)			-0.69 (-1.4 to 0.04)		
mean_PeakUpDownVel_mean * H3000's	0.36 (-0.57 to 1.3)			0.16 (-1.5 to 1.9)			-0.47 (-1.3 to 0.33)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.57 (NA to NA)			0.26 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Residual.sd__Observation

1 CI = Confidence Interval

2 False discovery rate correction for multiple testing

Changes in	mean_APexc_COV	for Cluster:	10						
	EEG	Theta	•	EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.5 (0.92 to 2.0)	< 0.001	< 0.001	0.72 (0.20 to 1.2)	0.007	0.027	1.3 (0.82 to 1.8)	< 0.001	< 0.001
mean_APexc_COV	0.00 (-0.02 to 0.02)	0.91	0.93	0.00 (-0.02 to 0.02)	0.90	0.90	0.00 (-0.02 to 0.01)	0.53	0.53
group_char		0.36	0.73		0.17	0.22		0.53	0.53
H1000's	_			_			_		
H2000's	-0.52 (-1.3 to 0.28)			0.46 (-0.33 to 1.3)			0.29 (-0.46 to 1.0)		
H3000's	-0.47 (-1.3 to 0.36)			-0.37 (-1.2 to 0.45)			-0.18 (-0.97 to 0.62)		
mean_APexc_COV * group_char		0.93	0.93		0.12	0.22		0.15	0.30
mean_APexc_COV * H2000's	0.00 (-0.03 to 0.03)			-0.01 (-0.04 to 0.01)			0.00 (-0.02 to 0.02)		
mean_APexc_COV * H3000's	0.00 (-0.03 to 0.03)			0.01 (-0.02 to 0.04)			0.01 (0.00 to 0.03)		
subj_char.sd(Intercept)	0.96 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.36 (NA to NA)			0.34 (NA to NA)			0.22 (NA to NA)		

Changes in	mean_APexc_mean	for Cluster:	10						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.5 (1.1 to 2.0)	< 0.001	< 0.001	0.59 (0.12 to 1.1)	0.013	0.052	1.1 (0.61 to 1.6)	< 0.001	< 0.001
mean_APexc_mean	-1.1 (-6.2 to 4.0)	0.68	0.68	2.0 (-3.0 to 6.9)	0.44	0.75	2.9 (-0.15 to 6.0)	0.062	0.12
group_char		0.45	0.61		0.74	0.75		0.88	0.88
H1000's	_			_			_		
H2000's	-0.40 (-1.1 to 0.29)			0.08 (-0.62 to 0.77)			0.10 (-0.60 to 0.81)		
H3000's	-0.36 (-1.1 to 0.36)			-0.21 (-0.93 to 0.51)			0.19 (-0.56 to 0.93)		
mean_APexc_mean * group_char		0.44	0.61		0.75	0.75		0.13	0.18
mean_APexc_mean * H2000's	-5.1 (-13 to 3.0)			1.4 (-6.5 to 9.2)			4.7 (-0.16 to 9.6)		
mean_APexc_mean * H3000's	-3.5 (-12 to 5.3)			3.2 (-5.2 to 12)			0.20 (-5.1 to 5.5)		
subj_char.sd(Intercept)	0.95 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.36 (NA to NA)			0.34 (NA to NA)			0.21 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

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 False discovery rate correction for multiple testing

Changes in	mean_MLexc_COV	for Cluster:	10						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.2 (0.69 to 1.7)	< 0.001	< 0.001	0.71 (0.22 to 1.2)	0.004	0.018	1.3 (0.83 to 1.8)	< 0.001	< 0.001
mean_MLexc_COV	0.02 (0.00 to 0.04)	0.052	0.10	0.00 (-0.02 to 0.02)	0.95	0.95	0.00 (-0.02 to 0.01)	0.48	0.64
group_char		0.14	0.18		0.63	0.95		0.53	0.64
H1000's	_			_			_		
H2000's	-0.71 (-1.4 to -0.01)			0.09 (-0.61 to 0.79)			0.40 (-0.31 to 1.1)		
H3000's	-0.27 (-1.0 to 0.46)			-0.27 (-1.0 to 0.47)			0.25 (-0.50 to 1.0)		
mean_MLexc_COV * group_char		0.36	0.36		0.75	0.95		0.64	0.64
mean_MLexc_COV * H2000's	0.01 (-0.02 to 0.04)			0.00 (-0.03 to 0.03)			-0.01 (-0.03 to 0.01)		
mean_MLexc_COV * H3000's	-0.01 (-0.04 to 0.02)			0.01 (-0.02 to 0.04)			-0.01 (-0.03 to 0.01)		
subj_char.sd(Intercept)	0.94 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.35 (NA to NA)			0.35 (NA to NA)			0.22 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	10						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.8 (1.3 to 2.2)	< 0.001	< 0.001	0.67 (0.21 to 1.1)	0.004	0.017	1.0 (0.58 to 1.5)	< 0.001	< 0.001
mean_MLexc_mean	-3.4 (-6.4 to -0.45)	0.024	0.048	0.40 (-2.6 to 3.4)	0.79	0.90	2.4 (0.53 to 4.2)	0.012	0.023
group_char		0.18	0.24		0.69	0.90		0.76	0.98
H1000's	_			_			_		
H2000's	-0.51 (-1.2 to 0.14)			0.16 (-0.50 to 0.83)			0.26 (-0.44 to 0.95)		
H3000's	-0.58 (-1.3 to 0.12)			-0.15 (-0.85 to 0.56)			0.16 (-0.58 to 0.90)		
mean_MLexc_mean * group_char		0.50	0.50		0.90	0.90		0.98	0.98
mean_MLexc_mean * H2000's	-0.87 (-4.6 to 2.8)			-0.54 (-4.3 to 3.2)			0.09 (-2.2 to 2.4)		
mean_MLexc_mean * H3000's	1.3 (-2.8 to 5.3)			0.29 (-3.8 to 4.4)			-0.15 (-2.7 to 2.4)		
subj_char.sd(Intercept)	0.96 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.34 (NA to NA)			0.35 (NA to NA)			0.21 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

CI = Confidence Interval
 False discovery rate correction for multiple testing

Changes in	mean_StepDur	for Cluster:	10						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.5 (1.1 to 1.9)	< 0.001	< 0.001	0.54 (0.11 to 0.97)	0.014	0.057	1.1 (0.63 to 1.5)	< 0.001	< 0.001
mean_StepDur	-0.04 (-0.26 to 0.18)	0.70	0.72	0.17 (-0.04 to 0.39)	0.11	0.23	0.17 (0.03 to 0.30)	0.013	0.026
group_char		0.72	0.72		0.87	0.93		0.96	0.96
H1000's	_			_			_		
H2000's	-0.27 (-0.94 to 0.40)			0.16 (-0.51 to 0.84)			0.10 (-0.60 to 0.80)		
H3000's	-0.15 (-0.89 to 0.59)			0.00 (-0.75 to 0.74)			0.01 (-0.75 to 0.77)		
mean_StepDur * group_char		0.054	0.11		0.93	0.93		0.061	0.081
mean_StepDur * H2000's	-0.47 (-0.92 to -0.02)			-0.02 (-0.46 to 0.41)			0.29 (0.02 to 0.55)		
mean_StepDur * H3000's	-0.51 (-1.1 to 0.11)			-0.12 (-0.72 to 0.48)			0.27 (-0.10 to 0.64)		
subj_char.sd(Intercept)	0.95 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.35 (NA to NA)			0.34 (NA to NA)			0.21 (NA to NA)		

 $^{^{1}}$ CI = Confidence Interval

Changes in	mean UDexc COV	for Cluster:	10						
		Theta	10	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.6 (1.2 to 2.0)	< 0.001	< 0.001	0.64 (0.21 to 1.1)	0.003	0.013	1.1 (0.64 to 1.6)	< 0.001	< 0.001
mean_UDexc_COV	-0.01 (-0.02 to 0.01)	0.26	0.36	0.00 (-0.01 to 0.02)	0.50	0.67	0.01 (0.00 to 0.02)	0.012	0.023
group_char		0.27	0.36		0.67	0.67		0.70	0.76
H1000's	_			_			_		
H2000's	-0.49 (-1.1 to 0.15)			0.25 (-0.39 to 0.88)			0.29 (-0.39 to 0.98)		
H3000's	-0.42 (-1.1 to 0.28)			-0.03 (-0.73 to 0.66)			0.08 (-0.66 to 0.82)		
mean_UDexc_COV * group_char		0.67	0.67		0.62	0.67		0.76	0.76
mean_UDexc_COV * H2000's	-0.01 (-0.03 to 0.01)			-0.01 (-0.03 to 0.01)			0.00 (-0.01 to 0.01)		
mean_UDexc_COV * H3000's	0.00 (-0.03 to 0.02)			-0.01 (-0.03 to 0.02)			0.00 (-0.01 to 0.02)		
subj_char.sd(Intercept)	0.97 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.35 (NA to NA)			0.35 (NA to NA)			0.22 (NA to NA)		

 $^{^{2}}$ False discovery rate correction for multiple testing $\,$

CI = Confidence Interval
 False discovery rate correction for multiple testing

Changes in	mean_UDexc_mean	for Cluster:	10						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.4 (0.92 to 1.8)	< 0.001	< 0.001	0.70 (0.26 to 1.1)	0.002	0.007	1.4 (0.91 to 1.8)	< 0.001	< 0.001
mean_UDexc_mean	4.9 (-3.9 to 14)	0.28	0.28	0.11 (-8.6 to 8.8)	0.98	0.98	-5.5 (-11 to -0.03)	0.049	0.10
group_char		0.024	0.049		0.77	0.98		0.64	0.84
H1000's	_			_			_		
H2000's	-0.88 (-1.5 to -0.24)			0.03 (-0.62 to 0.67)			0.32 (-0.37 to 1.0)		
H3000's	-0.56 (-1.2 to 0.12)			-0.22 (-0.90 to 0.47)			0.20 (-0.53 to 0.94)		
mean_UDexc_mean * group_char		0.26	0.28		0.78	0.98		0.84	0.84
mean_UDexc_mean * H2000's	10 (-2.1 to 22)			3.8 (-8.4 to 16)			-1.1 (-8.8 to 6.5)		
mean_UDexc_mean * H3000's	3.9 (-9.2 to 17)			4.0 (-9.0 to 17)			-2.5 (-11 to 5.7)		
subj_char.sd(Intercept)	0.96 (NA to NA)			0.96 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.35 (NA to NA)			0.35 (NA to NA)			0.22 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	10						
	EEG	Theta	,	EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.5 (1.1 to 1.9)	< 0.001	< 0.001	0.57 (0.15 to 0.99)	0.008	0.031	1.1 (0.66 to 1.6)	< 0.001	< 0.001
mean_StanceDur	-0.03 (-0.16 to 0.10)	0.69	0.69	0.10 (-0.02 to 0.23)	0.11	0.21	0.10 (0.02 to 0.18)	0.014	0.029
group_char		0.51	0.68		0.81	0.92		0.89	0.89
H1000's	_			_			_		
H2000's	-0.37 (-1.0 to 0.27)			0.18 (-0.46 to 0.82)			0.16 (-0.52 to 0.85)		
H3000's	-0.23 (-0.92 to 0.47)			-0.03 (-0.73 to 0.67)			0.04 (-0.70 to 0.78)		
mean_StanceDur * group_char		0.078	0.16		0.92	0.92		0.11	0.15
mean_StanceDur * H2000's	-0.25 (-0.51 to 0.01)			-0.04 (-0.29 to 0.21)			0.14 (-0.01 to 0.30)		
mean_StanceDur * H3000's	-0.28 (-0.64 to 0.07)			-0.06 (-0.41 to 0.29)			0.16 (-0.06 to 0.37)		
subj_char.sd(Intercept)	0.95 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.35 (NA to NA)			0.34 (NA to NA)			0.21 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

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 False discovery rate correction for multiple testing

Changes in	mean_GaitCycleDur	for Cluster:	10						
	EEG	Theta	,	EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.5 (1.1 to 1.9)	< 0.001	< 0.001	0.54 (0.11 to 0.97)	0.014	0.058	1.1 (0.63 to 1.5)	< 0.001	< 0.001
mean_GaitCycleDur	-0.02 (-0.13 to 0.09)	0.71	0.72	0.09 (-0.02 to 0.19)	0.11	0.23	0.08 (0.02 to 0.15)	0.013	0.026
group_char		0.72	0.72		0.88	0.93		0.96	0.96
H1000's	_			_			_		
H2000's	-0.28 (-0.95 to 0.39)			0.16 (-0.51 to 0.84)			0.10 (-0.60 to 0.80)		
H3000's	-0.15 (-0.89 to 0.59)			0.00 (-0.75 to 0.74)			0.01 (-0.75 to 0.77)		
mean_GaitCycleDur * group_char		0.056	0.11		0.93	0.93		0.062	0.083
mean_GaitCycleDur * H2000's	-0.23 (-0.45 to -0.01)			-0.01 (-0.23 to 0.21)			0.14 (0.01 to 0.27)		
mean_GaitCycleDur * H3000's	-0.25 (-0.56 to 0.05)			-0.06 (-0.36 to 0.24)			0.14 (-0.05 to 0.32)		
subj_char.sd(Intercept)	0.95 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.35 (NA to NA)			0.34 (NA to NA)			0.21 (NA to NA)		
1 07 0 01 7 1									

¹ CI = Confidence Interval

Changes in	mean_PeakUpDownVel_mean	for Cluster:	10						
	EEG The	eta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.4 (1.0 to 1.8)	< 0.001	< 0.001	0.75 (0.33 to 1.2)	< 0.001	0.002	1.3 (0.89 to 1.8)	< 0.001	< 0.001
mean_PeakUpDownVel_mean	0.25 (-0.41 to 0.91)	0.46	0.46	-0.21 (-0.87 to 0.44)	0.52	0.69	-0.44 (-0.84 to -0.03)	0.036	0.071
group_char		0.021	0.041		0.69	0.69		0.61	0.81
H1000's	_			_			_		
H2000's	-0.84 (-1.5 to -0.23)			0.02 (-0.60 to 0.64)			0.34 (-0.34 to 1.0)		
H3000's	-0.59 (-1.3 to 0.06)			-0.25 (-0.92 to 0.41)			0.21 (-0.52 to 0.93)		
mean_PeakUpDownVel_mean * group_char		0.22	0.30		0.54	0.69		0.82	0.82
mean_PeakUpDownVel_mean * H2000's	0.82 (-0.11 to 1.7)			0.39 (-0.52 to 1.3)			-0.15 (-0.72 to 0.41)		
mean_PeakUpDownVel_mean * H3000's	0.43 (-0.56 to 1.4)			0.52 (-0.46 to 1.5)			-0.17 (-0.78 to 0.43)		
subj_char.sd(Intercept)	0.95 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.35 (NA to NA)			0.35 (NA to NA)			0.21 (NA to NA)		

 $^{^{2}}$ False discovery rate correction for multiple testing

[|] Residual.sd Observation | 1 CI = Confidence Interval | 2 False discovery rate correction for multiple testing

Changes in	mean_APexc_COV	for Cluster:	11						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.54 (-0.02 to 1.1)	0.060	0.24	4.1 (2.7 to 5.5)	< 0.001	< 0.001	2.0 (1.3 to 2.7)	< 0.001	< 0.001
mean_APexc_COV	0.00 (-0.03 to 0.02)	0.76	0.76	-0.05 (-0.10 to 0.01)	0.10	0.20	-0.01 (-0.04 to 0.02)	0.42	0.85
group_char		0.55	0.76		0.39	0.50		0.77	0.89
H1000's	_			_			_		
H2000's	-0.35 (-1.2 to 0.50)			-1.5 (-3.6 to 0.66)			-0.12 (-1.2 to 0.96)		
H3000's	0.12 (-0.67 to 0.92)			-0.44 (-2.4 to 1.6)			-0.36 (-1.4 to 0.63)		
mean_APexc_COV * group_char		0.64	0.76		0.50	0.50		0.89	0.89
mean_APexc_COV * H2000's	0.01 (-0.02 to 0.04)			0.03 (-0.04 to 0.10)			-0.01 (-0.05 to 0.03)		
mean_APexc_COV * H3000's	0.01 (-0.01 to 0.04)			0.04 (-0.02 to 0.10)			0.00 (-0.03 to 0.03)		
subj_char.sd(Intercept)	0.91 (NA to NA)			2.4 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.61 (NA to NA)			0.34 (NA to NA)		

Changes in	mean_APexc_mean	for Cluster:	11						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.48 (-0.01 to 0.98)	0.057	0.23	3.4 (2.2 to 4.7)	< 0.001	< 0.001	1.7 (1.1 to 2.3)	< 0.001	< 0.001
mean_APexc_mean	-0.06 (-4.6 to 4.5)	0.98	0.98	-0.28 (-11 to 10)	0.96	0.96	1.9 (-4.3 to 8.0)	0.55	0.77
group_char		0.15	0.29		0.49	0.66		0.57	0.77
H1000's	_			_			_		
H2000's	-0.25 (-1.0 to 0.50)			-1.2 (-3.1 to 0.76)			-0.28 (-1.2 to 0.65)		
H3000's	0.48 (-0.23 to 1.2)			-0.58 (-2.4 to 1.2)			-0.47 (-1.3 to 0.41)		
mean_APexc_mean * group_char		0.75	0.98		0.19	0.38		0.98	0.98
mean_APexc_mean * H2000's	1.1 (-6.4 to 8.6)			2.2 (-15 to 20)			-0.87 (-11 to 9.3)		
mean_APexc_mean * H3000's	-1.7 (-8.3 to 4.9)			14 (-1.7 to 29)			0.07 (-8.9 to 9.0)		
subj_char.sd(Intercept)	0.90 (NA to NA)			2.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.61 (NA to NA)			0.35 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Changes in	mean_MLexc_COV	for Cluster:	11						
-	EEG	Theta	,	EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.41 (-0.10 to 0.92)	0.11	0.15	3.7 (2.4 to 5.0)	< 0.001	< 0.001	1.8 (1.2 to 2.5)	< 0.001	< 0.001
mean_MLexc_COV	0.00 (-0.01 to 0.02)	0.61	0.61	-0.02 (-0.06 to 0.03)	0.43	0.58	0.00 (-0.03 to 0.02)	0.79	0.83
group_char		0.027	0.11		0.28	0.57		0.73	0.83
H1000's	_			_			_		
H2000's	-0.29 (-1.0 to 0.46)			-1.3 (-3.2 to 0.64)			-0.21 (-1.1 to 0.72)		
H3000's	0.71 (-0.02 to 1.4)			0.17 (-1.7 to 2.0)			-0.37 (-1.3 to 0.55)		
mean_MLexc_COV * group_char		0.064	0.13		0.71	0.71		0.83	0.83
mean_MLexc_COV * H2000's	0.01 (-0.02 to 0.03)			0.01 (-0.05 to 0.08)			-0.01 (-0.04 to 0.02)		
mean_MLexc_COV * H3000's	-0.02 (-0.05 to 0.00)			-0.01 (-0.07 to 0.05)			-0.01 (-0.04 to 0.03)		
subj_char.sd(Intercept)	0.90 (NA to NA)			2.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.25 (NA to NA)			0.61 (NA to NA)			0.35 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	11						
	EEG	Theta	,	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.59 (0.11 to 1.1)	0.016	0.065	3.3 (2.1 to 4.5)	< 0.001	< 0.001	1.6 (1.0 to 2.2)	< 0.001	< 0.001
mean_MLexc_mean	-1.5 (-4.4 to 1.4)	0.31	0.41	1.6 (-5.1 to 8.3)	0.64	0.64	2.0 (-2.0 to 5.9)	0.33	0.57
group_char		0.58	0.58		0.56	0.64		0.43	0.57
H1000's	_			_			_		
H2000's	-0.19 (-0.91 to 0.53)			-0.89 (-2.7 to 0.92)			-0.29 (-1.2 to 0.59)		
H3000's	0.20 (-0.50 to 0.89)			-0.78 (-2.5 to 0.96)			-0.57 (-1.4 to 0.28)		
mean_MLexc_mean * group_char		0.21	0.41		0.009	0.017		0.79	0.79
mean_MLexc_mean * H2000's	0.24 (-3.4 to 3.9)			-2.2 (-11 to 6.3)			-0.96 (-5.9 to 4.0)		
mean_MLexc_mean * H3000's	2.6 (-0.96 to 6.2)			8.4 (0.18 to 17)			0.49 (-4.4 to 5.3)		
subj_char.sd(Intercept)	0.90 (NA to NA)			2.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.58 (NA to NA)			0.35 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

CI = Confidence Interval
 False discovery rate correction for multiple testing

Changes in	mean_StepDur	for Cluster:	11						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.51 (0.04 to 0.97)	0.034	0.14	3.3 (2.1 to 4.5)	< 0.001	< 0.001	1.7 (1.1 to 2.3)	< 0.001	< 0.001
mean_StepDur	-0.03 (-0.22 to 0.16)	0.78	0.88	0.10 (-0.33 to 0.53)	0.64	0.64	0.08 (-0.17 to 0.34)	0.52	0.52
group_char		0.42	0.84		0.41	0.55		0.21	0.34
H1000's	_			_			_		
H2000's	-0.17 (-0.91 to 0.57)			-0.95 (-2.8 to 0.91)			-0.30 (-1.2 to 0.61)		
H3000's	0.34 (-0.37 to 1.1)			-1.1 (-2.9 to 0.67)			-0.79 (-1.7 to 0.08)		
mean_StepDur * group_char		0.88	0.88		0.002	0.004		0.26	0.34
mean_StepDur * H2000's	-0.05 (-0.47 to 0.37)			-0.11 (-1.1 to 0.83)			-0.04 (-0.59 to 0.52)		
mean_StepDur * H3000's	0.09 (-0.34 to 0.51)			1.7 (0.70 to 2.6)			0.46 (-0.11 to 1.0)		
subj_char.sd(Intercept)	0.90 (NA to NA)			2.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.58 (NA to NA)			0.34 (NA to NA)		

¹ CI = Confidence Interval

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Changes in			11	_					
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.51 (0.05 to 0.97)	0.030	0.12	3.5 (2.4 to 4.7)	< 0.001	< 0.001	1.7 (1.2 to 2.3)	< 0.001	< 0.001
mean_UDexc_COV	0.00 (-0.02 to 0.01)	0.73	0.87	-0.01 (-0.04 to 0.02)	0.46	0.46	0.00 (-0.01 to 0.02)	0.62	0.81
group_char		0.34	0.67		0.39	0.46		0.40	0.79
H1000's	_			_			_		
H2000's	-0.17 (-0.87 to 0.53)			-1.2 (-3.0 to 0.58)			-0.31 (-1.2 to 0.54)		
H3000's	0.36 (-0.32 to 1.1)			-0.79 (-2.6 to 0.98)			-0.58 (-1.4 to 0.26)		
mean_UDexc_COV * group_char		0.87	0.87		0.037	0.074		0.81	0.81
mean_UDexc_COV * H2000's	0.00 (-0.02 to 0.02)			0.01 (-0.03 to 0.06)			0.00 (-0.03 to 0.02)		
mean_UDexc_COV * H3000's	0.00 (-0.02 to 0.02)			0.06 (0.01 to 0.11)			0.01 (-0.02 to 0.03)		
subj_char.sd(Intercept)	0.90 (NA to NA)			2.4 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.60 (NA to NA)			0.35 (NA to NA)		

 $^{^2}$ False discovery rate correction for multiple testing

CI = Confidence Interval
 False discovery rate correction for multiple testing

Changes in	mean_UDexc_mean	for Cluster:	11						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.39 (-0.08 to 0.86)	0.10	0.20	3.4 (2.1 to 4.6)	< 0.001	< 0.001	1.9 (1.3 to 2.4)	< 0.001	< 0.001
mean_UDexc_mean	3.6 (-3.9 to 11)	0.35	0.35	2.3 (-15 to 19)	0.80	0.80	-3.5 (-13 to 6.4)	0.48	0.65
group_char		0.056	0.20		0.11	0.14		0.75	0.75
H1000's	_			_			_		
H2000's	-0.26 (-0.97 to 0.45)			-1.0 (-2.9 to 0.80)			-0.33 (-1.2 to 0.53)		
H3000's	0.61 (-0.09 to 1.3)			1.0 (-0.76 to 2.8)			-0.12 (-0.97 to 0.72)		
mean_UDexc_mean * group_char		0.18	0.24		0.003	0.006		0.10	0.20
mean_UDexc_mean * H2000's	2.5 (-8.4 to 13)			-0.90 (-26 to 24)			-0.22 (-15 to 14)		
mean_UDexc_mean * H3000's	-8.0 (-19 to 3.3)			-40 (-66 to -14)			-14 (-29 to 0.35)		
subj_char.sd(Intercept)	0.90 (NA to NA)			2.4 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.25 (NA to NA)			0.58 (NA to NA)			0.34 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	11						
	EEG	Theta	•	EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.50 (0.04 to 0.96)	0.031	0.13	3.3 (2.2 to 4.5)	< 0.001	< 0.001	1.7 (1.2 to 2.3)	< 0.001	< 0.001
mean_StanceDur	-0.02 (-0.13 to 0.10)	0.77	0.78	0.06 (-0.20 to 0.32)	0.64	0.64	0.05 (-0.10 to 0.21)	0.50	0.50
group_char		0.39	0.78		0.48	0.64		0.27	0.45
H1000's	_			_			_		
H2000's	-0.17 (-0.88 to 0.54)			-0.97 (-2.8 to 0.84)			-0.30 (-1.2 to 0.57)		
H3000's	0.34 (-0.35 to 1.0)			-0.89 (-2.6 to 0.86)			-0.70 (-1.5 to 0.14)		
mean_StanceDur * group_char		0.78	0.78		0.002	0.004		0.34	0.45
mean_StanceDur * H2000's	-0.03 (-0.28 to 0.21)			-0.07 (-0.62 to 0.49)			-0.03 (-0.35 to 0.30)		
mean_StanceDur * H3000's	0.07 (-0.18 to 0.32)			0.98 (0.41 to 1.5)			0.24 (-0.10 to 0.57)		
subj_char.sd(Intercept)	0.90 (NA to NA)			2.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.58 (NA to NA)			0.34 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Changes in	mean_GaitCycleDur	for Cluster:	11						
	EEG	Theta	,	EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.51 (0.04 to 0.97)	0.034	0.14	3.3 (2.1 to 4.5)	< 0.001	< 0.001	1.7 (1.1 to 2.3)	< 0.001	< 0.001
mean_GaitCycleDur	-0.01 (-0.11 to 0.08)	0.78	0.89	0.05 (-0.16 to 0.26)	0.65	0.65	0.04 (-0.09 to 0.17)	0.52	0.52
group_char		0.41	0.82		0.41	0.54		0.21	0.33
H1000's	_			_			_		
H2000's	-0.17 (-0.91 to 0.57)			-0.96 (-2.8 to 0.91)			-0.30 (-1.2 to 0.61)		
H3000's	0.34 (-0.37 to 1.1)			-1.1 (-2.9 to 0.67)			-0.79 (-1.7 to 0.08)		
mean_GaitCycleDur * group_char		0.89	0.89		0.002	0.004		0.25	0.33
mean_GaitCycleDur * H2000's	-0.02 (-0.23 to 0.19)			-0.05 (-0.52 to 0.42)			-0.02 (-0.30 to 0.26)		
mean_GaitCycleDur * H3000's	0.04 (-0.17 to 0.26)			0.83 (0.35 to 1.3)			0.23 (-0.05 to 0.51)		
subj_char.sd(Intercept)	0.90 (NA to NA)			2.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.58 (NA to NA)			0.34 (NA to NA)		

¹ CI = Confidence Interval

Changes in	mean_PeakUpDownVel_mean	for Cluster:	11						
	EEG The	eta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.43 (-0.02 to 0.88)	0.064	0.25	3.4 (2.2 to 4.6)	< 0.001	< 0.001	1.8 (1.3 to 2.4)	< 0.001	< 0.001
mean_PeakUpDownVel_mean	0.21 (-0.35 to 0.78)	0.46	0.61	0.06 (-1.2 to 1.3)	0.93	0.93	-0.26 (-0.99 to 0.47)	0.48	0.65
group_char		0.13	0.26		0.16	0.21		0.74	0.74
H1000's	_			_			_		
H2000's	-0.23 (-0.93 to 0.46)			-1.0 (-2.8 to 0.77)			-0.33 (-1.2 to 0.51)		
H3000's	0.48 (-0.19 to 1.1)			0.79 (-0.93 to 2.5)			-0.18 (-0.99 to 0.62)		
mean_PeakUpDownVel_mean * group_char		0.62	0.62		0.003	0.005		0.064	0.13
mean_PeakUpDownVel_mean * H2000's	0.12 (-0.72 to 0.96)			-0.16 (-2.1 to 1.7)			-0.03 (-1.1 to 1.1)		
mean_PeakUpDownVel_mean * H3000's	-0.29 (-1.1 to 0.52)			-2.9 (-4.8 to -1.1)			-1.1 (-2.2 to -0.08)		
subj_char.sd(Intercept)	0.90 (NA to NA)			2.4 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.58 (NA to NA)			0.33 (NA to NA)		

 $^{^2}$ False discovery rate correction for multiple testing

Residual.sd __Observation

¹ CI = Confidence Interval

² False discovery rate correction for multiple testing

Changes in	mean_APexc_COV	for Cluster:	12						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.32 (-0.10 to 0.74)	0.14	0.21	1.4 (0.32 to 2.5)	0.011	0.043	0.80 (0.29 to 1.3)	0.002	0.007
mean_APexc_COV	0.02 (0.00 to 0.03)	0.090	0.21	0.01 (-0.02 to 0.05)	0.37	0.49	0.01 (-0.01 to 0.02)	0.44	0.48
group_char		0.27	0.27		0.069	0.14		0.48	0.48
H1000's	_			_			_		
H2000's	0.61 (-0.13 to 1.4)			1.9 (0.07 to 3.7)			0.26 (-0.58 to 1.1)		
H3000's	0.21 (-0.40 to 0.82)			1.5 (-0.09 to 3.0)			-0.26 (-0.98 to 0.47)		
mean_APexc_COV * group_char		0.16	0.21		0.83	0.83		0.40	0.48
mean_APexc_COV * H2000's	-0.03 (-0.06 to 0.00)			-0.01 (-0.07 to 0.04)			-0.01 (-0.04 to 0.01)		
mean_APexc_COV * H3000's	-0.01 (-0.03 to 0.01)			-0.01 (-0.05 to 0.03)			0.00 (-0.02 to 0.02)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.93 (NA to NA)		
Residual.sdObservation	0.27 (NA to NA)			0.48 (NA to NA)			0.21 (NA to NA)		

Changes in	mean_APexc_mean	for Cluster:	12						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.46 (0.08 to 0.84)	0.017	0.067	1.3 (0.26 to 2.3)	0.014	0.056	0.75 (0.28 to 1.2)	0.002	0.008
mean_APexc_mean	2.0 (-2.3 to 6.2)	0.36	0.57	7.1 (-0.05 to 14)	0.052	0.078	2.5 (-0.76 to 5.7)	0.13	0.27
group_char		0.57	0.57		0.090	0.090		0.71	0.91
H1000's	_			_			_		
H2000's	0.34 (-0.29 to 0.96)			1.1 (-0.52 to 2.7)			-0.01 (-0.78 to 0.76)		
H3000's	0.12 (-0.41 to 0.66)			1.6 (0.14 to 3.0)			-0.26 (-0.95 to 0.42)		
mean_APexc_mean * group_char		0.50	0.57		0.059	0.078		0.91	0.91
mean_APexc_mean * H2000's	-5.2 (-14 to 3.6)			15 (0.12 to 30)			0.54 (-6.2 to 7.3)		
mean_APexc_mean * H3000's	-1.8 (-8.4 to 4.7)			-3.8 (-15 to 7.4)			1.1 (-4.0 to 6.2)		
subj_char.sd(Intercept)	0.63 (NA to NA)			1.9 (NA to NA)			0.93 (NA to NA)		
Residual.sdObservation	0.27 (NA to NA)			0.46 (NA to NA)			0.21 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

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Changes in	mean_MLexc_COV	for Cluster:	12						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.71 (0.28 to 1.1)	0.001	0.005	2.1 (0.98 to 3.2)	< 0.001	< 0.001	1.0 (0.54 to 1.5)	< 0.001	< 0.001
mean_MLexc_COV	-0.01 (-0.03 to 0.01)	0.37	0.49	-0.03 (-0.07 to 0.01)	0.12	0.25	-0.01 (-0.03 to 0.01)	0.20	0.41
group_char		0.55	0.55		0.28	0.36		0.72	0.72
H1000's	_			_			_		
H2000's	-0.32 (-0.96 to 0.31)			1.1 (-0.57 to 2.8)			-0.16 (-0.94 to 0.62)		
H3000's	-0.03 (-0.61 to 0.54)			1.1 (-0.41 to 2.6)			-0.29 (-1.0 to 0.42)		
mean_MLexc_COV * group_char		0.072	0.14		0.36	0.36		0.70	0.72
mean_MLexc_COV * H2000's	0.03 (0.00 to 0.06)			0.04 (-0.02 to 0.09)			0.01 (-0.01 to 0.03)		
mean_MLexc_COV * H3000's	0.00 (-0.02 to 0.03)			0.02 (-0.03 to 0.06)			0.00 (-0.02 to 0.02)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.93 (NA to NA)		
Residual.sdObservation	0.27 (NA to NA)			0.47 (NA to NA)			0.21 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	12						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.44 (0.06 to 0.82)	0.022	0.087	1.2 (0.17 to 2.2)	0.022	0.047	0.69 (0.21 to 1.2)	0.005	0.020
mean_MLexc_mean	1.6 (-1.2 to 4.3)	0.26	0.29	5.5 (0.74 to 10)	0.024	0.047	2.4 (0.35 to 4.5)	0.022	0.045
group_char		0.29	0.29		0.044	0.059		0.59	0.59
H1000's	_			_			_		
H2000's	0.44 (-0.13 to 1.0)			1.8 (0.18 to 3.4)			0.12 (-0.64 to 0.87)		
H3000's	0.08 (-0.45 to 0.61)			1.5 (0.08 to 3.0)			-0.26 (-0.94 to 0.43)		
mean_MLexc_mean * group_char		0.052	0.10		0.68	0.68		0.34	0.45
mean_MLexc_mean * H2000's	-4.0 (-7.6 to -0.42)			-1.9 (-8.2 to 4.5)			-1.7 (-4.4 to 1.0)		
mean_MLexc_mean * H3000's	-0.78 (-4.3 to 2.7)			-2.8 (-8.9 to 3.4)			-0.09 (-2.8 to 2.6)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.94 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.46 (NA to NA)			0.20 (NA to NA)		

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 False discovery rate correction for multiple testing

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Changes in	mean_StepDur	for Cluster:	12						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.51 (0.15 to 0.86)	0.006	0.023	1.3 (0.28 to 2.3)	0.012	0.044	0.79 (0.33 to 1.3)	< 0.001	0.004
mean_StepDur	0.07 (-0.14 to 0.28)	0.52	0.52	0.41 (0.06 to 0.77)	0.022	0.044	0.10 (-0.05 to 0.26)	0.20	0.27
group_char		0.52	0.52		0.13	0.17		0.30	0.30
H1000's	_			_			_		
H2000's	0.35 (-0.25 to 0.96)			1.4 (-0.23 to 3.0)			0.02 (-0.74 to 0.78)		
H3000's	0.08 (-0.48 to 0.64)			1.3 (-0.19 to 2.7)			-0.49 (-1.2 to 0.20)		
mean_StepDur * group_char		0.38	0.52		0.51	0.51		0.089	0.18
mean_StepDur * H2000's	-0.33 (-0.79 to 0.13)			0.45 (-0.33 to 1.2)			-0.02 (-0.37 to 0.32)		
mean_StepDur * H3000's	-0.06 (-0.53 to 0.41)			0.20 (-0.59 to 1.0)			0.38 (0.03 to 0.74)		
subj_char.sd(Intercept)	0.63 (NA to NA)			1.9 (NA to NA)			0.93 (NA to NA)		
Residual.sdObservation	0.27 (NA to NA)			0.46 (NA to NA)			0.20 (NA to NA)		

Changes in	mean_UDexc_COV	for Cluster:	12						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.49 (0.15 to 0.84)	0.005	0.018	1.4 (0.38 to 2.3)	0.007	0.026	0.79 (0.32 to 1.2)	< 0.001	0.004
mean_UDexc_COV	0.01 (-0.01 to 0.02)	0.34	0.35	0.02 (0.00 to 0.04)	0.043	0.086	0.01 (0.00 to 0.02)	0.089	0.12
group_char		0.35	0.35		0.070	0.094		0.41	0.41
H1000's	_			_			_		
H2000's	0.39 (-0.16 to 0.94)			1.7 (0.09 to 3.2)			0.14 (-0.60 to 0.88)		
H3000's	0.06 (-0.45 to 0.56)			1.3 (-0.11 to 2.7)			-0.34 (-1.0 to 0.33)		
mean_UDexc_COV * group_char		0.064	0.13		>0.99	>0.99		0.067	0.12
mean_UDexc_COV * H2000's	-0.02 (-0.04 to 0.00)			0.00 (-0.04 to 0.03)			-0.01 (-0.03 to 0.00)		
mean_UDexc_COV * H3000's	0.00 (-0.02 to 0.02)			0.00 (-0.03 to 0.03)			0.01 (-0.01 to 0.02)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.94 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.46 (NA to NA)			0.20 (NA to NA)		

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Changes in	mean_UDexc_mean	for Cluster:	12						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.66 (0.30 to 1.0)	< 0.001	0.002	1.9 (0.94 to 2.9)	< 0.001	< 0.001	1.1 (0.60 to 1.5)	< 0.001	< 0.001
mean_UDexc_mean	-4.0 (-13 to 4.6)	0.36	0.48	-13 (-29 to 2.2)	0.092	0.16	-8.3 (-15 to -1.7)	0.013	0.018
group_char		0.67	0.67		0.12	0.16		0.66	0.66
H1000's	_			_			_		
H2000's	-0.25 (-0.82 to 0.31)			1.5 (-0.08 to 3.1)			-0.31 (-1.1 to 0.44)		
H3000's	-0.07 (-0.59 to 0.44)			1.2 (-0.24 to 2.6)			-0.25 (-0.92 to 0.42)		
mean_UDexc_mean * group_char		0.045	0.090		0.75	0.75		0.009	0.018
mean_UDexc_mean * H2000's	15 (2.6 to 27)			7.0 (-15 to 29)			12 (3.3 to 22)		
mean_UDexc_mean * H3000's	4.2 (-6.9 to 15)			7.0 (-13 to 27)			1.1 (-7.3 to 9.6)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.93 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.47 (NA to NA)			0.20 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	12						
	EEG	Theta	,	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.51 (0.17 to 0.85)	0.003	0.014	1.3 (0.37 to 2.3)	0.007	0.027	0.81 (0.35 to 1.3)	< 0.001	0.002
mean_StanceDur	0.05 (-0.08 to 0.17)	0.47	0.58	0.24 (0.03 to 0.45)	0.026	0.051	0.06 (-0.03 to 0.16)	0.19	0.26
group_char		0.58	0.58		0.11	0.14		0.34	0.34
H1000's	_			_			_		
H2000's	0.30 (-0.26 to 0.86)			1.4 (-0.13 to 3.0)			0.03 (-0.71 to 0.77)		
H3000's	0.08 (-0.44 to 0.60)			1.3 (-0.13 to 2.7)			-0.45 (-1.1 to 0.23)		
mean_StanceDur * group_char		0.38	0.58		0.51	0.51		0.068	0.14
mean_StanceDur * H2000's	-0.19 (-0.46 to 0.08)			0.27 (-0.20 to 0.73)			-0.03 (-0.24 to 0.17)		
mean_StanceDur * H3000's	-0.05 (-0.32 to 0.23)			0.12 (-0.35 to 0.59)			0.23 (0.02 to 0.44)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.93 (NA to NA)		
Residual.sdObservation	0.27 (NA to NA)			0.46 (NA to NA)			0.20 (NA to NA)		

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Changes in	mean_GaitCycleDur	for Cluster:	12						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.51 (0.15 to 0.86)	0.006	0.023	1.3 (0.28 to 2.3)	0.012	0.044	0.79 (0.33 to 1.3)	< 0.001	0.004
mean_GaitCycleDur	0.03 (-0.07 to 0.14)	0.52	0.52	0.21 (0.03 to 0.38)	0.022	0.044	0.05 (-0.03 to 0.13)	0.20	0.27
group_char		0.52	0.52		0.13	0.17		0.30	0.30
H1000's	_			_			_		
H2000's	0.35 (-0.25 to 0.95)			1.4 (-0.23 to 3.0)			0.02 (-0.74 to 0.78)		
H3000's	0.08 (-0.48 to 0.64)			1.3 (-0.18 to 2.7)			-0.49 (-1.2 to 0.20)		
mean_GaitCycleDur * group_char		0.38	0.52		0.51	0.51		0.092	0.18
mean_GaitCycleDur * H2000's	-0.16 (-0.39 to 0.07)			0.22 (-0.17 to 0.61)			-0.01 (-0.18 to 0.16)		
mean_GaitCycleDur * H3000's	-0.03 (-0.26 to 0.20)			0.10 (-0.30 to 0.50)			0.19 (0.01 to 0.37)		
subj_char.sd(Intercept)	0.63 (NA to NA)			1.9 (NA to NA)			0.93 (NA to NA)		
Residual.sdObservation	0.27 (NA to NA)			0.46 (NA to NA)			0.20 (NA to NA)		

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Changes in	mean_PeakUpDownVel_mean		12						
-	EEG The	ta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.65 (0.31 to 0.99)	< 0.001	< 0.001	1.9 (0.90 to 2.8)	< 0.001	< 0.001	1.0 (0.54 to 1.5)	< 0.001	< 0.001
mean_PeakUpDownVel_mean	-0.36 (-0.96 to 0.24)	0.24	0.32	-1.0 (-2.1 to 0.07)	0.066	0.10	-0.49 (-0.95 to -0.03)	0.037	0.065
group_char		0.77	0.77		0.074	0.10		0.81	0.81
H1000's	_			_			_		
H2000's	-0.19 (-0.73 to 0.34)			1.6 (0.09 to 3.2)			-0.18 (-0.91 to 0.55)		
H3000's	-0.07 (-0.55 to 0.41)			1.2 (-0.15 to 2.6)			-0.20 (-0.86 to 0.46)		
mean_PeakUpDownVel_mean * group_char		0.030	0.061		0.80	0.80		0.048	0.065
mean_PeakUpDownVel_mean * H2000's	1.2 (0.29 to 2.0)			0.18 (-1.4 to 1.7)			0.67 (0.00 to 1.3)		
mean_PeakUpDownVel_mean * H3000's	0.39 (-0.40 to 1.2)			0.48 (-0.95 to 1.9)			-0.08 (-0.69 to 0.54)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.93 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.47 (NA to NA)			0.20 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Residual.sd __Observation ¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Changes in	mean_APexc_COV	for Cluster:	13						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.41 (-0.06 to 0.88)	0.087	0.35	2.6 (1.4 to 3.8)	< 0.001	< 0.001	1.2 (0.68 to 1.8)	< 0.001	< 0.001
mean_APexc_COV	-0.01 (-0.04 to 0.01)	0.33	0.52	0.00 (-0.05 to 0.04)	0.83	0.83	0.00 (-0.02 to 0.02)	0.82	0.82
group_char		0.52	0.52		0.14	0.18		0.066	0.088
H1000's	_			_			_		
H2000's	-0.02 (-0.91 to 0.86)			-2.3 (-4.7 to 0.04)			-1.2 (-2.3 to -0.16)		
H3000's	0.40 (-0.35 to 1.1)			-1.1 (-3.0 to 0.83)			-0.61 (-1.5 to 0.29)		
mean_APexc_COV * group_char		0.44	0.52		0.091	0.18		< 0.001	0.001
mean_APexc_COV * H2000's	0.02 (-0.01 to 0.06)			0.07 (0.00 to 0.13)			0.06 (0.02 to 0.09)		
mean_APexc_COV * H3000's	0.01 (-0.02 to 0.04)			0.01 (-0.05 to 0.07)			0.00 (-0.03 to 0.03)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.3 (NA to NA)			1.0 (NA to NA)		
Residual.sdObservation	0.32 (NA to NA)			0.59 (NA to NA)			0.30 (NA to NA)		

Changes in	mean_APexc_mean	for Cluster:	13						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.51 (0.13 to 0.88)	0.008	0.034	2.4 (1.3 to 3.5)	< 0.001	< 0.001	1.1 (0.61 to 1.6)	< 0.001	< 0.001
mean_APexc_mean	-5.3 (-10 to -0.45)	0.032	0.064	2.7 (-6.6 to 12)	0.57	0.57	1.6 (-3.4 to 6.6)	0.53	0.71
group_char		0.52	0.55		0.32	0.57		0.25	0.50
H1000's	_			_			_		
H2000's	0.12 (-0.59 to 0.84)			-0.97 (-3.1 to 1.2)			0.07 (-0.90 to 1.0)		
H3000's	0.34 (-0.24 to 0.93)			-1.3 (-3.0 to 0.47)			-0.61 (-1.4 to 0.17)		
mean_APexc_mean * group_char		0.55	0.55		0.50	0.57		0.96	0.96
mean_APexc_mean * H2000's	5.1 (-4.3 to 15)			3.0 (-15 to 21)			-1.1 (-11 to 8.7)		
mean_APexc_mean * H3000's	0.54 (-8.5 to 9.6)			11 (-7.0 to 28)			0.63 (-8.9 to 10)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.3 (NA to NA)			0.97 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.60 (NA to NA)			0.32 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Changes in	mean_MLexc_COV	for Cluster:	13						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.13 (-0.26 to 0.51)	0.52	0.52	2.4 (1.3 to 3.5)	< 0.001	< 0.001	1.2 (0.67 to 1.7)	< 0.001	< 0.001
mean_MLexc_COV	0.01 (-0.01 to 0.02)	0.50	0.52	0.01 (-0.03 to 0.04)	0.60	0.81	0.00 (-0.02 to 0.02)	0.89	0.89
group_char		0.40	0.52		0.86	0.86		0.78	0.89
H1000's	_			_			_		
H2000's	0.56 (-0.27 to 1.4)			-0.63 (-2.9 to 1.6)			-0.19 (-1.2 to 0.85)		
H3000's	0.19 (-0.43 to 0.82)			-0.21 (-2.0 to 1.5)			-0.28 (-1.1 to 0.52)		
mean_MLexc_COV * group_char		0.35	0.52		0.30	0.60		0.21	0.42
mean_MLexc_COV * H2000's	-0.01 (-0.05 to 0.03)			-0.01 (-0.09 to 0.07)			0.01 (-0.03 to 0.06)		
mean_MLexc_COV * H3000's	0.02 (-0.01 to 0.05)			-0.05 (-0.11 to 0.01)			-0.02 (-0.05 to 0.01)		
subj_char.sd(Intercept)	0.64 (NA to NA)			2.3 (NA to NA)			0.97 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.60 (NA to NA)			0.32 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	13						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.48 (0.12 to 0.85)	0.009	0.035	2.4 (1.4 to 3.5)	< 0.001	< 0.001	1.1 (0.65 to 1.6)	< 0.001	< 0.001
mean_MLexc_mean	-3.3 (-6.3 to -0.37)	0.027	0.054	1.6 (-4.1 to 7.3)	0.59	0.59	0.76 (-2.4 to 3.9)	0.63	0.84
group_char		0.23	0.23		0.23	0.45		0.15	0.30
H1000's	_			_			_		
H2000's	0.08 (-0.60 to 0.77)			-1.1 (-3.2 to 0.96)			-0.08 (-1.0 to 0.85)		
H3000's	0.47 (-0.08 to 1.0)			-1.4 (-3.0 to 0.28)			-0.71 (-1.5 to 0.03)		
mean_MLexc_mean * group_char		0.16	0.22		0.36	0.48		0.85	0.85
mean_MLexc_mean * H2000's	4.0 (-0.68 to 8.6)			2.8 (-6.1 to 12)			0.88 (-4.0 to 5.8)		
mean_MLexc_mean * H3000's	-0.01 (-4.0 to 3.9)			5.6 (-2.1 to 13)			1.2 (-3.0 to 5.4)		
subj_char.sd(Intercept)	0.64 (NA to NA)			2.3 (NA to NA)			0.97 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.59 (NA to NA)			0.32 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

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Changes in	mean_StepDur	for Cluster:	13						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.43 (0.10 to 0.76)	0.012	0.046	2.4 (1.4 to 3.4)	< 0.001	< 0.001	1.1 (0.68 to 1.6)	< 0.001	< 0.001
mean_StepDur	-0.23 (-0.45 to -0.02)	0.033	0.066	0.19 (-0.22 to 0.59)	0.37	0.37	0.06 (-0.16 to 0.28)	0.60	0.62
group_char		0.074	0.10		0.15	0.20		0.15	0.30
H1000's	_			_			_		
H2000's	0.16 (-0.56 to 0.87)			-1.1 (-3.2 to 1.0)			-0.11 (-1.1 to 0.85)		
H3000's	0.69 (0.10 to 1.3)			-1.7 (-3.4 to 0.06)			-0.77 (-1.6 to 0.01)		
mean_StepDur * group_char		0.16	0.16		0.085	0.17		0.62	0.62
mean_StepDur * H2000's	0.28 (-0.29 to 0.86)			0.38 (-0.72 to 1.5)			0.16 (-0.44 to 0.77)		
mean_StepDur * H3000's	-0.45 (-1.0 to 0.13)			1.2 (0.13 to 2.3)			0.27 (-0.34 to 0.88)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.3 (NA to NA)			0.97 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.59 (NA to NA)			0.32 (NA to NA)		

 $^{^{1}}$ CI = Confidence Interval

Changes in	mean UDexc COV	for Cluster:	13						
Changes in			10	1 555				.	
		Theta			Alpha			Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.43 (0.12 to 0.74)	0.007	0.019	2.6 (1.5 to 3.6)	< 0.001	< 0.001	1.2 (0.73 to 1.6)	< 0.001	< 0.001
mean_UDexc_COV	-0.02 (-0.03 to 0.00)	0.010	0.019	0.00 (-0.02 to 0.02)	0.98	0.98	0.00 (-0.01 to 0.01)	0.82	0.82
group_char		0.036	0.048		0.19	0.26		0.13	0.27
H1000's	_			_			_		
H2000's	0.26 (-0.37 to 0.89)			-1.2 (-3.3 to 0.86)			-0.13 (-1.0 to 0.78)		
H3000's	0.68 (0.16 to 1.2)			-1.4 (-3.1 to 0.23)			-0.73 (-1.5 to -0.01)		
mean_UDexc_COV * group_char		0.11	0.11		0.17	0.26		0.64	0.82
mean_UDexc_COV * H2000's	0.01 (-0.01 to 0.03)			0.02 (-0.02 to 0.07)			0.01 (-0.01 to 0.03)		
mean_UDexc_COV * H3000's	-0.01 (-0.03 to 0.01)			0.04 (0.00 to 0.08)			0.01 (-0.01 to 0.03)		
subj_char.sd(Intercept)	0.62 (NA to NA)			2.3 (NA to NA)			0.98 (NA to NA)		
Residual.sdObservation	0.30 (NA to NA)			0.59 (NA to NA)			0.32 (NA to NA)		

 $^{^2}$ False discovery rate correction for multiple testing

CI = Confidence Interval
 False discovery rate correction for multiple testing

Changes in	mean_UDexc_mean	for Cluster:	13						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.00 (-0.33 to 0.34)	>0.99	>0.99	2.5 (1.5 to 3.5)	< 0.001	< 0.001	1.2 (0.76 to 1.7)	< 0.001	< 0.001
mean_UDexc_mean	9.3 (1.2 to 17)	0.024	0.095	1.9 (-14 to 18)	0.81	0.91	-0.92 (-9.5 to 7.7)	0.83	0.83
group_char		0.20	0.26		0.91	0.91		0.54	0.72
H1000's	_			_			_		
H2000's	0.62 (-0.06 to 1.3)			-0.39 (-2.5 to 1.7)			0.14 (-0.79 to 1.1)		
H3000's	0.23 (-0.30 to 0.75)			-0.30 (-1.9 to 1.3)			-0.34 (-1.1 to 0.39)		
mean_UDexc_mean * group_char		0.093	0.19		0.13	0.26		0.26	0.53
mean_UDexc_mean * H2000's	-9.2 (-26 to 7.3)			-19 (-52 to 14)			-5.7 (-23 to 12)		
mean_UDexc_mean * H3000's	8.8 (-3.3 to 21)			-24 (-48 to 0.09)			-11 (-24 to 2.2)		
subj_char.sd(Intercept)	0.64 (NA to NA)			2.3 (NA to NA)			0.97 (NA to NA)		
Residual.sdObservation	0.30 (NA to NA)			0.59 (NA to NA)			0.32 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	13						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.39 (0.08 to 0.70)	0.015	0.058	2.4 (1.4 to 3.4)	< 0.001	< 0.001	1.1 (0.70 to 1.6)	< 0.001	< 0.001
mean_StanceDur	-0.14 (-0.27 to -0.01)	0.033	0.066	0.12 (-0.13 to 0.36)	0.34	0.34	0.04 (-0.10 to 0.17)	0.58	0.69
group_char		0.062	0.083		0.19	0.26		0.15	0.31
H1000's	_			_			_		
H2000's	0.18 (-0.47 to 0.84)			-1.0 (-3.1 to 1.0)			-0.09 (-1.0 to 0.83)		
H3000's	0.65 (0.11 to 1.2)			-1.5 (-3.1 to 0.18)			-0.71 (-1.5 to 0.02)		
mean_StanceDur * group_char		0.10	0.10		0.10	0.19		0.69	0.69
mean_StanceDur * H2000's	0.19 (-0.14 to 0.51)			0.19 (-0.42 to 0.81)			0.09 (-0.25 to 0.43)		
mean_StanceDur * H3000's	-0.27 (-0.59 to 0.06)			0.69 (0.06 to 1.3)			0.13 (-0.21 to 0.48)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.3 (NA to NA)			0.97 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.59 (NA to NA)			0.32 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

CI = Confidence Interval
 False discovery rate correction for multiple testing

Changes in	mean_GaitCycleDur	for Cluster:	13						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.43 (0.10 to 0.76)	0.012	0.046	2.4 (1.4 to 3.4)	< 0.001	< 0.001	1.1 (0.68 to 1.6)	< 0.001	< 0.001
mean_GaitCycleDur	-0.12 (-0.22 to -0.01)	0.033	0.066	0.09 (-0.11 to 0.30)	0.37	0.37	0.03 (-0.08 to 0.14)	0.60	0.62
group_char		0.075	0.10		0.15	0.19		0.15	0.30
H1000's	_			_			_		
H2000's	0.16 (-0.56 to 0.87)			-1.1 (-3.2 to 1.0)			-0.11 (-1.1 to 0.85)		
H3000's	0.69 (0.09 to 1.3)			-1.7 (-3.4 to 0.06)			-0.77 (-1.6 to 0.01)		
mean_GaitCycleDur * group_char		0.16	0.16		0.085	0.17		0.62	0.62
mean_GaitCycleDur * H2000's	0.14 (-0.15 to 0.43)			0.19 (-0.36 to 0.74)			0.08 (-0.22 to 0.38)		
mean_GaitCycleDur * H3000's	-0.22 (-0.51 to 0.07)			0.62 (0.06 to 1.2)			0.14 (-0.17 to 0.44)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.3 (NA to NA)			0.97 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.59 (NA to NA)			0.32 (NA to NA)		

¹ CI = Confidence Interval

Changes in	mean PeakUpDownVel mean	for Cluster:	13						
Changes in	EEG The		10	l ppc	A 1 1		l pec	Beta	
					Alpha				
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.03 (-0.28 to 0.34)	0.84	0.84	2.6 (1.6 to 3.6)	< 0.001	< 0.001	1.2 (0.78 to 1.7)	< 0.001	< 0.001
mean_PeakUpDownVel_mean	0.80 (0.20 to 1.4)	0.009	0.035	-0.09 (-1.3 to 1.1)	0.89	0.89	-0.09 (-0.74 to 0.56)	0.78	0.78
group_char		0.16	0.21		0.79	0.89		0.43	0.57
H1000's	_			_			_		
H2000's	0.59 (-0.03 to 1.2)			-0.55 (-2.6 to 1.5)			0.11 (-0.78 to 1.0)		
H3000's	0.24 (-0.25 to 0.74)			-0.47 (-2.1 to 1.1)			-0.41 (-1.1 to 0.29)		
mean_PeakUpDownVel_mean * group_char		0.057	0.11		0.24	0.47		0.37	0.57
mean_PeakUpDownVel_mean * H2000's	-0.81 (-2.0 to 0.34)			-1.2 (-3.5 to 1.1)			-0.41 (-1.7 to 0.84)		
mean_PeakUpDownVel_mean * H3000's	0.60 (-0.28 to 1.5)			-1.5 (-3.3 to 0.30)			-0.69 (-1.6 to 0.27)		
subj_char.sd(Intercept)	0.64 (NA to NA)			2.3 (NA to NA)			0.97 (NA to NA)		
Residual.sdObservation	0.29 (NA to NA)			0.59 (NA to NA)			0.32 (NA to NA)		

 $^{^2}$ False discovery rate correction for multiple testing

Residual.sd__Odservation | 1 CI = Confidence Interval | 2 False discovery rate correction for multiple testing

Changes in	mean_APexc_COV	for Cluster:	14						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.41 (0.05 to 0.78)	0.027	0.11	4.3 (3.2 to 5.3)	< 0.001	< 0.001	2.6 (2.0 to 3.2)	< 0.001	< 0.001
mean_APexc_COV	0.00 (-0.01 to 0.01)	0.51	0.51	0.00 (-0.03 to 0.03)	0.92	0.95	0.00 (-0.02 to 0.02)	0.82	0.82
group_char		0.33	0.51		0.57	0.95		0.70	0.82
H1000's	_			_			_		
H2000's	-0.26 (-0.84 to 0.33)			-0.80 (-2.5 to 0.88)			-0.05 (-0.98 to 0.88)		
H3000's	0.21 (-0.35 to 0.77)			-0.70 (-2.3 to 0.90)			-0.36 (-1.2 to 0.52)		
mean_APexc_COV * group_char		0.40	0.51		0.95	0.95		0.044	0.087
mean_APexc_COV * H2000's	0.00 (-0.01 to 0.02)			0.00 (-0.05 to 0.04)			-0.01 (-0.03 to 0.02)		
mean_APexc_COV * H3000's	-0.01 (-0.02 to 0.01)			0.00 (-0.04 to 0.04)			0.02 (0.00 to 0.04)		
subj_char.sd(Intercept)	0.84 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.19 (NA to NA)			0.56 (NA to NA)			0.31 (NA to NA)		

Changes in	mean_APexc_mean	for Cluster:	14						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.52 (0.17 to 0.87)	0.004	0.016	4.1 (3.1 to 5.1)	< 0.001	< 0.001	2.6 (2.0 to 3.1)	< 0.001	< 0.001
mean_APexc_mean	-0.79 (-3.3 to 1.7)	0.54	0.73	2.6 (-4.7 to 9.9)	0.49	0.49	1.6 (-2.6 to 5.8)	0.45	0.56
group_char		0.54	0.73		0.21	0.28		0.56	0.56
H1000's	_			_			_		
H2000's	-0.20 (-0.75 to 0.34)			-1.4 (-3.0 to 0.16)			-0.45 (-1.3 to 0.43)		
H3000's	0.12 (-0.41 to 0.64)			-0.53 (-2.0 to 0.98)			-0.03 (-0.87 to 0.81)		
mean_APexc_mean * group_char		0.83	0.83		0.090	0.18		0.29	0.56
mean_APexc_mean * H2000's	-0.08 (-4.4 to 4.2)			12 (-0.48 to 24)			5.2 (-1.9 to 12)		
mean_APexc_mean * H3000's	-1.2 (-5.3 to 2.9)			-2.3 (-14 to 9.7)			3.9 (-3.0 to 11)		
subj_char.sd(Intercept)	0.84 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.19 (NA to NA)			0.54 (NA to NA)			0.31 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

¹ CI = Confidence Interval
2 False discovery rate correction for multiple testing

Changes in	mean_MLexc_COV	for Cluster:	14						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.48 (0.13 to 0.84)	0.008	0.031	4.4 (3.4 to 5.4)	< 0.001	< 0.001	2.7 (2.2 to 3.3)	< 0.001	< 0.001
mean_MLexc_COV	0.00 (-0.01 to 0.01)	0.90	0.90	-0.01 (-0.04 to 0.02)	0.47	0.72	-0.01 (-0.02 to 0.01)	0.54	0.71
group_char		0.17	0.22		0.54	0.72		0.99	0.99
H1000's	_			_			_		
H2000's	-0.40 (-0.94 to 0.15)			-0.88 (-2.5 to 0.69)			-0.07 (-0.94 to 0.80)		
H3000's	0.14 (-0.39 to 0.67)			-0.44 (-2.0 to 1.1)			0.00 (-0.85 to 0.84)		
mean_MLexc_COV * group_char		0.032	0.065		0.73	0.73		0.31	0.61
mean_MLexc_COV * H2000's	0.01 (0.00 to 0.03)			0.00 (-0.05 to 0.04)			-0.01 (-0.04 to 0.01)		
mean_MLexc_COV * H3000's	0.00 (-0.02 to 0.01)			-0.02 (-0.06 to 0.03)			0.01 (-0.02 to 0.03)		
subj_char.sd(Intercept)	0.84 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.18 (NA to NA)			0.55 (NA to NA)			0.32 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	14						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.50 (0.15 to 0.84)	0.005	0.021	4.0 (3.0 to 5.0)	< 0.001	< 0.001	2.5 (1.9 to 3.0)	< 0.001	< 0.001
mean_MLexc_mean	-0.27 (-1.8 to 1.3)	0.73	0.73	3.1 (-1.5 to 7.7)	0.18	0.36	1.9 (-0.72 to 4.4)	0.16	0.31
group_char		0.72	0.73		0.41	0.52		0.72	0.87
H1000's	_			_			_		
H2000's	-0.09 (-0.62 to 0.44)			-1.0 (-2.6 to 0.50)			-0.31 (-1.2 to 0.55)		
H3000's	0.14 (-0.38 to 0.66)			-0.49 (-2.0 to 1.0)			0.02 (-0.81 to 0.85)		
mean_MLexc_mean * group_char		0.50	0.73		0.52	0.52		0.87	0.87
mean_MLexc_mean * H2000's	-1.2 (-3.2 to 0.80)			1.2 (-4.7 to 7.2)			0.72 (-2.7 to 4.1)		
mean_MLexc_mean * H3000's	-0.75 (-2.9 to 1.4)			-2.1 (-8.4 to 4.2)			0.89 (-2.7 to 4.4)		
subj_char.sd(Intercept)	0.84 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.18 (NA to NA)			0.55 (NA to NA)			0.31 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

CI = Confidence Interval
 False discovery rate correction for multiple testing

Changes in	mean_StepDur	for Cluster:	14						
	EEG	Theta	,	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.54 (0.20 to 0.88)	0.002	0.008	4.1 (3.1 to 5.1)	< 0.001	< 0.001	2.5 (2.0 to 3.1)	< 0.001	< 0.001
mean_StepDur	-0.07 (-0.18 to 0.05)	0.24	0.48	0.16 (-0.17 to 0.50)	0.35	0.35	0.13 (-0.06 to 0.32)	0.19	0.37
group_char		0.56	0.59		0.22	0.31		0.60	0.60
H1000's	_			_			_		
H2000's	-0.16 (-0.70 to 0.38)			-1.3 (-2.8 to 0.28)			-0.40 (-1.3 to 0.46)		
H3000's	0.16 (-0.37 to 0.69)			-0.97 (-2.5 to 0.56)			0.01 (-0.83 to 0.86)		
mean_StepDur * group_char		0.59	0.59		0.23	0.31		0.42	0.56
mean_StepDur * H2000's	-0.06 (-0.30 to 0.17)			0.51 (-0.18 to 1.2)			0.25 (-0.15 to 0.65)		
mean_StepDur * H3000's	-0.14 (-0.42 to 0.14)			0.50 (-0.33 to 1.3)			0.17 (-0.31 to 0.64)		
subj_char.sd(Intercept)	0.84 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.19 (NA to NA)			0.54 (NA to NA)			0.31 (NA to NA)		

 $^{^{1}}$ CI = Confidence Interval

Changes in	mean_UDexc_COV	for Cluster:	14						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.50 (0.17 to 0.84)	0.003	0.014	4.2 (3.2 to 5.1)	< 0.001	< 0.001	2.6 (2.0 to 3.1)	< 0.001	< 0.001
mean_UDexc_COV	0.00 (-0.01 to 0.00)	0.55	0.76	0.01 (-0.02 to 0.03)	0.62	0.77	0.01 (-0.01 to 0.02)	0.27	0.53
group_char		0.57	0.76		0.34	0.69		0.81	0.81
H1000's	_			_			_		
H2000's	-0.18 (-0.70 to 0.35)			-1.1 (-2.6 to 0.44)			-0.28 (-1.1 to 0.55)		
H3000's	0.12 (-0.39 to 0.64)			-0.75 (-2.2 to 0.72)			-0.08 (-0.90 to 0.73)		
mean_UDexc_COV * group_char		0.87	0.87		0.77	0.77		0.41	0.54
mean_UDexc_COV * H2000's	0.00 (-0.01 to 0.01)			0.01 (-0.02 to 0.04)			0.00 (-0.01 to 0.02)		
mean_UDexc_COV * H3000's	0.00 (-0.01 to 0.01)			0.01 (-0.03 to 0.04)			0.01 (-0.01 to 0.03)		
subj_char.sd(Intercept)	0.84 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.19 (NA to NA)			0.55 (NA to NA)			0.31 (NA to NA)		

 $^{^{2}}$ False discovery rate correction for multiple testing

CI = Confidence Interval
 False discovery rate correction for multiple testing

Changes in	mean_UDexc_mean	for Cluster:	14						
	EEG	Theta	,	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.40 (0.06 to 0.74)	0.022	0.088	4.4 (3.4 to 5.4)	< 0.001	< 0.001	2.7 (2.2 to 3.3)	< 0.001	< 0.001
mean_UDexc_mean	3.1 (-1.4 to 7.6)	0.17	0.35	-6.4 (-20 to 7.0)	0.35	0.70	-3.4 (-11 to 4.2)	0.38	0.76
group_char		0.42	0.56		0.57	0.70		0.79	0.79
H1000's	_			_			_		
H2000's	-0.27 (-0.79 to 0.26)			-0.81 (-2.3 to 0.71)			-0.13 (-0.97 to 0.71)		
H3000's	0.10 (-0.42 to 0.61)			-0.46 (-1.9 to 1.0)			0.17 (-0.64 to 0.99)		
mean_UDexc_mean * group_char		0.57	0.57		0.70	0.70		0.75	0.79
mean_UDexc_mean * H2000's	2.8 (-3.9 to 9.4)			-3.9 (-24 to 16)			-4.1 (-15 to 7.2)		
mean_UDexc_mean * H3000's	-0.72 (-7.2 to 5.7)			-8.3 (-27 to 11)			-3.2 (-14 to 7.8)		
subj_char.sd(Intercept)	0.83 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.18 (NA to NA)			0.55 (NA to NA)			0.31 (NA to NA)		

mean_StanceDur	for Cluster:	14						
EEG	Theta		EEG	Alpha		EEG	Beta	
Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
0.53 (0.20 to 0.86)	0.002	0.007	4.1 (3.1 to 5.1)	< 0.001	< 0.001	2.5 (2.0 to 3.1)	< 0.001	< 0.001
-0.05 (-0.11 to 0.02)	0.18	0.37	0.10 (-0.10 to 0.30)	0.31	0.31	0.08 (-0.03 to 0.20)	0.15	0.30
	0.53	0.61		0.27	0.31		0.64	0.64
_			_			_		
-0.18 (-0.71 to 0.34)			-1.2 (-2.7 to 0.35)			-0.35 (-1.2 to 0.49)		
0.14 (-0.38 to 0.66)			-0.87 (-2.3 to 0.62)			0.04 (-0.78 to 0.86)		
	0.61	0.61		0.30	0.31		0.49	0.64
-0.03 (-0.16 to 0.11)			0.28 (-0.13 to 0.68)			0.13 (-0.10 to 0.37)		
-0.08 (-0.25 to 0.08)			0.26 (-0.22 to 0.74)			0.09 (-0.19 to 0.36)		
0.84 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
0.18 (NA to NA)			0.55 (NA to NA)			0.31 (NA to NA)		
	EEG Beta (95% CI) 0.53 (0.20 to 0.86) -0.05 (-0.11 to 0.02) -0.18 (-0.71 to 0.34) 0.14 (-0.38 to 0.66) -0.03 (-0.16 to 0.11) -0.08 (-0.25 to 0.08) 0.84 (NA to NA)	EEG Theta Beta (95% CI) p-value 0.53 (0.20 to 0.86) 0.002 -0.05 (-0.11 to 0.02) 0.18 0.53 0.53 -0.18 (-0.71 to 0.34) 0.14 (-0.38 to 0.66) 0.61 -0.03 (-0.16 to 0.11) -0.08 (-0.25 to 0.08) 0.84 (NA to NA)	EEG Theta Beta (95% CI) p-value q-value 0.53 (0.20 to 0.86) 0.002 0.007 -0.05 (-0.11 to 0.02) 0.18 0.37 0.53 0.61 -0.18 (-0.71 to 0.34) 0.01 0.14 (-0.38 to 0.66) 0.61 0.61 -0.03 (-0.16 to 0.11) -0.08 (-0.25 to 0.08) 0.84 (NA to NA)	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

CI = Confidence Interval
 False discovery rate correction for multiple testing

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

EEG Seta (95% CI)			EEG	Alpho		TT C	D .		
Seta (95% CI)	EEG Theta Beta (95% CI) p-value q-value			мірна		EEG Beta			
	p-varue	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	
54 (0.20 to 0.88)	0.002	0.008	4.1 (3.1 to 5.1)	< 0.001	< 0.001	2.5 (2.0 to 3.1)	< 0.001	< 0.001	
03 (-0.09 to 0.02)	0.24	0.48	0.08 (-0.09 to 0.25)	0.35	0.35	0.06 (-0.03 to 0.16)	0.19	0.37	
	0.56	0.59		0.22	0.31		0.60	0.60	
_			_			_			
16 (-0.70 to 0.38)			-1.3 (-2.8 to 0.28)			-0.40 (-1.3 to 0.46)			
.6 (-0.37 to 0.69)			-0.97 (-2.5 to 0.56)			0.01 (-0.83 to 0.86)			
	0.59	0.59		0.23	0.31		0.42	0.56	
03 (-0.15 to 0.09)			0.25 (-0.09 to 0.60)			0.12 (-0.07 to 0.32)			
07 (-0.21 to 0.07)			0.25 (-0.16 to 0.67)			0.08 (-0.15 to 0.32)			
84 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)			
.19 (NA to NA)			0.54 (NA to NA)			0.31 (NA to NA)			
0	3 (-0.09 to 0.02)	3 (-0.09 to 0.02) 0.24 0.56	3 (-0.09 to 0.02) 0.24 0.48 0.56 0.59 6 (-0.70 to 0.38) 6 (-0.37 to 0.69) 0.59 3 (-0.15 to 0.09) 7 (-0.21 to 0.07) 34 (NA to NA)	3 (-0.09 to 0.02) 0.24 0.48 0.08 (-0.09 to 0.25) 0.56 0.59	3 (-0.09 to 0.02) 0.24 0.48 0.08 (-0.09 to 0.25) 0.35 0.22 0.56 0.59 0.22 0.22 0.56 0.59 0.22 0.22 0.56 0.59 0.59 0.22 0.22 0.56 0.59 0.59 0.59 0.59 0.59 0.25 (-0.09 to 0.60) 0.23 0.25 (-0.09 to 0.60) 0.25 (-0.016 to 0.67) 0.25 (-0.16 to 0.67) 0.25 (-0.16 to 0.67) 0.24 (NA to NA) 0.24 (NA to NA)	3 (-0.09 to 0.02) 0.24 0.48 0.08 (-0.09 to 0.25) 0.35 0.35 0.35 0.56 0.59 0.22 0.31 0.56 0.59 0.22 0.31 0.56 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0.59	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3 (-0.09 to 0.02) 0.24 0.48 0.08 (-0.09 to 0.25) 0.35 0.35 0.06 (-0.03 to 0.16) 0.19 0.56 0.59 0.22 0.31 0.60 (-0.03 to 0.16) 0.60 0.60 0.60 0.60 0.60 0.60 0.60 0.	

Changes in	mean_PeakUpDownVel_mean	for Cluster:	14						
	EEG The	ta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.43 (0.10 to 0.77)	0.011	0.043	4.3 (3.4 to 5.3)	< 0.001	< 0.001	2.7 (2.2 to 3.2)	< 0.001	< 0.001
mean_PeakUpDownVel_mean	0.17 (-0.16 to 0.50)	0.31	0.60	-0.49 (-1.5 to 0.50)	0.33	0.66	-0.23 (-0.80 to 0.33)	0.42	0.74
group_char		0.47	0.60		0.59	0.69		0.80	0.80
H1000's	_			_			_		
H2000's	-0.26 (-0.78 to 0.25)			-0.74 (-2.2 to 0.75)			-0.11 (-0.93 to 0.71)		
H3000's	0.06 (-0.44 to 0.56)			-0.53 (-2.0 to 0.92)			0.18 (-0.61 to 0.98)		
mean_PeakUpDownVel_mean * group_char		0.60	0.60		0.69	0.69		0.55	0.74
mean_PeakUpDownVel_mean * H2000's	0.24 (-0.24 to 0.73)			-0.60 (-2.0 to 0.84)			-0.44 (-1.3 to 0.38)		
mean_PeakUpDownVel_mean * H3000's	0.06 (-0.43 to 0.54)			-0.46 (-1.9 to 0.98)			-0.31 (-1.1 to 0.52)		
subj_char.sd(Intercept)	0.83 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.18 (NA to NA)			0.54 (NA to NA)			0.31 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Residual.sd__Observation | 1 CI = Confidence Interval | 2 False discovery rate correction for multiple testing

Changes in	mean_APexc_COV	for Cluster:	9						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.78 (0.46 to 1.1)	< 0.001	< 0.001	2.6 (1.5 to 3.7)	< 0.001	< 0.001	1.4 (0.83 to 2.0)	< 0.001	< 0.001
mean_APexc_COV	-0.01 (-0.02 to 0.00)	0.18	0.27	0.00 (-0.02 to 0.03)	0.68	0.68	0.00 (-0.01 to 0.01)	0.54	0.54
group_char		0.63	0.63		0.13	0.20		0.25	0.38
H1000's	_			_			_		
H2000's	-0.17 (-0.56 to 0.22)			0.15 (-1.4 to 1.7)			0.72 (-0.16 to 1.6)		
H3000's	-0.16 (-0.57 to 0.25)			-1.4 (-3.0 to 0.20)			0.16 (-0.75 to 1.1)		
subj_char.sd(Intercept)	0.60 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.32 (NA to NA)			0.57 (NA to NA)			0.28 (NA to NA)		

¹ CI = Confidence Interval

 $^{^{2}}$ False discovery rate correction for multiple testing

Changes in	mean_APexc_mean	for Cluster:	9						
	EEG	Theta	•	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.84 (0.53 to 1.2)	< 0.001	< 0.001	2.3 (1.2 to 3.4)	< 0.001	< 0.001	1.2 (0.64 to 1.8)	< 0.001	< 0.001
mean_APexc_mean	-3.4 (-6.7 to -0.14)	0.041	0.061	6.3 (0.42 to 12)	0.036	0.054	4.4 (1.6 to 7.3)	0.002	0.004
group_char		0.29	0.29		0.16	0.16		0.20	0.20
H1000's	_			_			_		
H2000's	-0.26 (-0.65 to 0.13)			0.26 (-1.3 to 1.8)			0.79 (-0.08 to 1.7)		
H3000's	-0.28 (-0.68 to 0.13)			-1.3 (-2.9 to 0.32)			0.25 (-0.65 to 1.2)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.56 (NA to NA)			0.27 (NA to NA)		

$LME~EEG \sim 1 {+} kin {+} group$

CI = Confidence Interval
 False discovery rate correction for multiple testing

Changes in	mean_MLexc_COV	for Cluster:	9						
	EEG	Theta	,	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.47 (0.16 to 0.77)	0.003	0.008	2.7 (1.6 to 3.7)	< 0.001	< 0.001	1.6 (1.0 to 2.2)	< 0.001	< 0.001
mean_MLexc_COV	0.01 (0.00 to 0.02)	0.024	0.036	0.00 (-0.02 to 0.02)	0.95	0.95	-0.01 (-0.02 to 0.00)	0.087	0.13
group_char		0.45	0.45		0.14	0.21		0.24	0.24
H1000's	_			_			_		
H2000's	-0.21 (-0.60 to 0.18)			0.18 (-1.4 to 1.7)			0.73 (-0.14 to 1.6)		
H3000's	-0.22 (-0.62 to 0.18)			-1.4 (-2.9 to 0.22)			0.18 (-0.72 to 1.1)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.57 (NA to NA)			0.28 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	9						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.83 (0.54 to 1.1)	< 0.001	< 0.001	2.5 (1.5 to 3.6)	< 0.001	< 0.001	1.3 (0.70 to 1.9)	< 0.001	< 0.001
mean_MLexc_mean	-2.1 (-3.6 to -0.59)	0.006	0.010	1.8 (-0.95 to 4.6)	0.20	0.20	2.3 (0.97 to 3.6)	< 0.001	0.001
group_char		0.45	0.45		0.14	0.20		0.25	0.25
H1000's	_			_			_		
H2000's	-0.21 (-0.60 to 0.18)			0.17 (-1.4 to 1.7)			0.73 (-0.15 to 1.6)		
H3000's	-0.22 (-0.63 to 0.18)			-1.4 (-2.9 to 0.22)			0.18 (-0.72 to 1.1)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.56 (NA to NA)			0.27 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

CI = Confidence Interval
 False discovery rate correction for multiple testing

Changes in	mean_StepDur	for Cluster:	9						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.85 (0.55 to 1.1)	< 0.001	< 0.001	2.4 (1.3 to 3.4)	< 0.001	< 0.001	1.3 (0.68 to 1.9)	< 0.001	< 0.001
mean_StepDur	-0.21 (-0.38 to -0.05)	0.012	0.018	0.34 (0.04 to 0.63)	0.025	0.038	0.23 (0.08 to 0.37)	0.002	0.003
group_char		0.29	0.29		0.16	0.16		0.21	0.21
H1000's	_			_			_		
H2000's	-0.26 (-0.65 to 0.13)			0.24 (-1.3 to 1.8)			0.78 (-0.10 to 1.7)		
H3000's	-0.28 (-0.68 to 0.13)			-1.3 (-2.9 to 0.30)			0.24 (-0.67 to 1.1)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.56 (NA to NA)			0.27 (NA to NA)		

Changes in	mean_UDexc_COV	for Cluster:	9						
	EEG	Theta	•	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.78 (0.50 to 1.1)	< 0.001	< 0.001	2.5 (1.5 to 3.6)	< 0.001	< 0.001	1.3 (0.75 to 1.9)	< 0.001	< 0.001
mean_UDexc_COV	-0.01 (-0.02 to 0.00)	0.015	0.022	0.01 (0.00 to 0.03)	0.12	0.14	0.01 (0.00 to 0.02)	0.001	0.002
group_char		0.45	0.45		0.14	0.14		0.25	0.25
H1000's	_			_			_		
H2000's	-0.21 (-0.60 to 0.17)			0.17 (-1.4 to 1.7)			0.73 (-0.15 to 1.6)		
H3000's	-0.21 (-0.61 to 0.19)			-1.4 (-3.0 to 0.21)			0.17 (-0.74 to 1.1)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.56 (NA to NA)			0.27 (NA to NA)		

¹ CI = Confidence Interval

CI = Confidence Interval
 False discovery rate correction for multiple testing

 $^{^{2}}$ False discovery rate correction for multiple testing $\,$

Changes in	mean_UDexc_mean	for Cluster:	9						
	EEG	Theta		EEG	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.42 (0.14 to 0.70)	0.003	0.005	2.7 (1.7 to 3.8)	< 0.001	< 0.001	1.7 (1.1 to 2.3)	< 0.001	< 0.001
mean_UDexc_mean	9.9 (5.2 to 15)	< 0.001	< 0.001	-3.5 (-12 to 5.4)	0.44	0.44	-8.5 (-13 to -4.3)	< 0.001	< 0.001
group_char		0.38	0.38		0.14	0.21		0.24	0.24
H1000's				_			_		
H2000's	-0.23 (-0.61 to 0.16)			0.18 (-1.3 to 1.7)			0.74 (-0.13 to 1.6)		
H3000's	-0.25 (-0.65 to 0.15)			-1.4 (-2.9 to 0.23)			0.20 (-0.70 to 1.1)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.30 (NA to NA)			0.57 (NA to NA)			0.27 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	9						
	EEG	Theta		EEG	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.81 (0.52 to 1.1)	< 0.001	< 0.001	2.4 (1.4 to 3.4)	< 0.001	< 0.001	1.3 (0.73 to 1.9)	< 0.001	< 0.001
mean_StanceDur	-0.12 (-0.22 to -0.02)	0.014	0.021	0.20 (0.03 to 0.37)	0.023	0.035	0.13 (0.05 to 0.22)	0.002	0.004
group_char		0.31	0.31		0.16	0.16		0.22	0.22
H1000's	_			_			_		
H2000's	-0.25 (-0.64 to 0.14)			0.23 (-1.3 to 1.8)			0.77 (-0.10 to 1.6)		
H3000's	-0.27 (-0.67 to 0.13)			-1.3 (-2.9 to 0.29)			0.23 (-0.68 to 1.1)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.56 (NA to NA)			0.27 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

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Changes in	mean_GaitCycleDur	for Cluster:	9						
	EEG	Theta		EEG	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.85 (0.55 to 1.1)	< 0.001	< 0.001	2.4 (1.3 to 3.4)	< 0.001	< 0.001	1.3 (0.68 to 1.9)	< 0.001	< 0.001
mean_GaitCycleDur	-0.11 (-0.19 to -0.02)	0.012	0.018	0.17 (0.02 to 0.32)	0.025	0.038	0.11 (0.04 to 0.19)	0.002	0.003
group_char		0.29	0.29		0.16	0.16		0.21	0.21
H1000's	_			_			_		
H2000's	-0.26 (-0.65 to 0.13)			0.24 (-1.3 to 1.8)			0.78 (-0.10 to 1.7)		
H3000's	-0.28 (-0.68 to 0.13)			-1.3 (-2.9 to 0.30)			0.24 (-0.67 to 1.1)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.56 (NA to NA)			0.27 (NA to NA)		

Changes in	mean_PeakUpDownVel_mean	for Cluster:	9						
	EEG The	ta	,	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.49 (0.22 to 0.76)	< 0.001	< 0.001	2.8 (1.7 to 3.8)	< 0.001	< 0.001	1.6 (1.1 to 2.2)	< 0.001	< 0.001
mean_PeakUpDownVel_mean	0.69 (0.33 to 1.0)	< 0.001	< 0.001	-0.48 (-1.1 to 0.19)	0.16	0.16	-0.68 (-1.0 to -0.37)	< 0.001	< 0.001
group_char		0.35	0.35		0.15	0.16		0.23	0.23
H1000's	_			_			_		
H2000's	-0.24 (-0.63 to 0.15)			0.19 (-1.3 to 1.7)			0.76 (-0.12 to 1.6)		
H3000's	-0.26 (-0.66 to 0.15)			-1.3 (-2.9 to 0.24)			0.21 (-0.69 to 1.1)		
subj_char.sd(Intercept)	0.61 (NA to NA)			2.5 (NA to NA)			1.4 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.56 (NA to NA)			0.27 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

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Changes in	mean_APexc_COV	for Cluster:	10						
	EEG	Theta		EEG .	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.5 (1.1 to 1.9)	< 0.001	< 0.001	0.73 (0.31 to 1.2)	< 0.001	0.002	1.2 (0.76 to 1.7)	< 0.001	< 0.001
mean_APexc_COV	0.00 (-0.01 to 0.01)	0.92	0.92	0.00 (-0.01 to 0.01)	0.68	0.77	0.00 (-0.01 to 0.01)	0.60	0.72
group_char		0.090	0.14		0.77	0.77		0.72	0.72
H1000's	_						_		
H2000's	-0.62 (-1.2 to -0.04)			0.13 (-0.45 to 0.72)			0.28 (-0.39 to 0.94)		
H3000's	-0.47 (-1.1 to 0.15)			-0.10 (-0.73 to 0.52)			0.13 (-0.58 to 0.84)		
subj_char.sd(Intercept)	0.96 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.36 (NA to NA)			0.35 (NA to NA)			0.22 (NA to NA)		

Changes in	mean_APexc_mean	for Cluster:	10						
	EEG	Theta		EEG .	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.7 (1.2 to 2.1)	< 0.001	< 0.001	0.53 (0.10 to 0.95)	0.015	0.044	1.0 (0.54 to 1.5)	< 0.001	< 0.001
mean_APexc_mean	-3.4 (-6.9 to 0.01)	0.051	0.057	3.1 (-0.18 to 6.4)	0.064	0.10	4.4 (2.3 to 6.5)	< 0.001	< 0.001
group_char		0.057	0.057		0.79	0.79		0.61	0.61
H1000's	_			_			_		
H2000's	-0.65 (-1.2 to -0.08)			0.15 (-0.43 to 0.73)			0.33 (-0.34 to 1.0)		
H3000's	-0.53 (-1.1 to 0.08)			-0.07 (-0.69 to 0.55)			0.22 (-0.49 to 0.93)		
subj_char.sd(Intercept)	0.96 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.36 (NA to NA)			0.34 (NA to NA)			0.21 (NA to NA)		

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 False discovery rate correction for multiple testing

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Changes in	mean_MLexc_COV	for Cluster:	10						
	EEG	Theta		EEG .	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.2 (0.79 to 1.6)	< 0.001	< 0.001	0.65 (0.23 to 1.1)	0.002	0.007	1.4 (0.94 to 1.8)	< 0.001	< 0.001
mean_MLexc_COV	0.02 (0.01 to 0.03)	0.002	0.003	0.00 (-0.01 to 0.02)	0.55	0.76	-0.01 (-0.02 to 0.00)	0.006	0.010
group_char		0.079	0.079		0.76	0.76		0.70	0.70
H1000's	_			_			_		
H2000's	-0.62 (-1.2 to -0.05)			0.12 (-0.46 to 0.70)			0.28 (-0.38 to 0.94)		
H3000's	-0.46 (-1.1 to 0.14)			-0.12 (-0.74 to 0.49)			0.14 (-0.56 to 0.85)		
subj_char.sd(Intercept)	0.94 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.35 (NA to NA)			0.35 (NA to NA)			0.22 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	10						
	EEG	Theta		EEG	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.8 (1.4 to 2.2)	< 0.001	< 0.001	0.68 (0.27 to 1.1)	0.001	0.003	1.0 (0.60 to 1.5)	< 0.001	< 0.001
mean_MLexc_mean	-3.4 (-4.9 to -1.9)	< 0.001	< 0.001	0.24 (-1.3 to 1.8)	0.75	0.76	2.4 (1.4 to 3.3)	< 0.001	< 0.001
group_char		0.10	0.10		0.76	0.76		0.74	0.74
H1000's	_			_			_		
H2000's	-0.59 (-1.2 to -0.02)			0.12 (-0.46 to 0.70)			0.26 (-0.40 to 0.93)		
H3000's	-0.47 (-1.1 to 0.14)			-0.12 (-0.74 to 0.49)			0.15 (-0.56 to 0.86)		
subj_char.sd(Intercept)	0.96 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.34 (NA to NA)			0.35 (NA to NA)			0.21 (NA to NA)		

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 False discovery rate correction for multiple testing

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Changes in	mean_StepDur	for Cluster:	10						
	EEG	Theta		EEG .	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.7 (1.2 to 2.1)	< 0.001	< 0.001	0.56 (0.14 to 0.97)	0.009	0.027	1.0 (0.55 to 1.5)	< 0.001	< 0.001
mean_StepDur	-0.20 (-0.38 to -0.01)	0.036	0.054	0.16 (-0.02 to 0.33)	0.084	0.13	0.26 (0.15 to 0.37)	< 0.001	< 0.001
group_char		0.059	0.059		0.78	0.78		0.62	0.62
H1000's	_			_			_		
H2000's	-0.65 (-1.2 to -0.08)			0.14 (-0.44 to 0.72)			0.33 (-0.34 to 0.99)		
H3000's	-0.52 (-1.1 to 0.09)			-0.08 (-0.70 to 0.53)			0.21 (-0.50 to 0.92)		
subj_char.sd(Intercept)	0.96 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.36 (NA to NA)			0.34 (NA to NA)			0.21 (NA to NA)		

Changes in	mean_UDexc_COV	for Cluster:	10						
	EEG	Theta		EEG .	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.6 (1.2 to 2.0)	< 0.001	< 0.001	0.71 (0.30 to 1.1)	< 0.001	0.002	1.1 (0.64 to 1.5)	< 0.001	< 0.001
mean_UDexc_COV	-0.01 (-0.02 to 0.00)	0.006	0.009	0.00 (-0.01 to 0.01)	0.91	0.91	0.01 (0.01 to 0.02)	< 0.001	< 0.001
group_char		0.10	0.10		0.76	0.91		0.72	0.72
H1000's	_								
H2000's	-0.61 (-1.2 to -0.03)			0.12 (-0.46 to 0.70)			0.27 (-0.39 to 0.94)		
H3000's	-0.46 (-1.1 to 0.15)			-0.12 (-0.74 to 0.49)			0.14 (-0.57 to 0.85)		
subj_char.sd(Intercept)	0.97 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.35 (NA to NA)			0.35 (NA to NA)			0.21 (NA to NA)		

CI = Confidence Interval
 Palse discovery rate correction for multiple testing

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Changes in	mean_UDexc_mean	for Cluster:	10						
	EEG	Theta		EEG .	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.2 (0.84 to 1.6)	< 0.001	< 0.001	0.64 (0.23 to 1.0)	0.002	0.006	1.4 (0.95 to 1.8)	< 0.001	< 0.001
mean_UDexc_mean	9.7 (4.5 to 15)	< 0.001	< 0.001	2.6 (-2.5 to 7.8)	0.31	0.47	-6.6 (-9.8 to -3.4)	< 0.001	< 0.001
group_char		0.076	0.076		0.77	0.77		0.68	0.68
H1000's	_			_			_		
H2000's	-0.63 (-1.2 to -0.06)			0.12 (-0.46 to 0.69)			0.30 (-0.37 to 0.96)		
H3000's	-0.47 (-1.1 to 0.14)			-0.12 (-0.74 to 0.49)			0.15 (-0.56 to 0.85)		
subj_char.sd(Intercept)	0.96 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.35 (NA to NA)			0.34 (NA to NA)			0.22 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	10							
	EEG	Theta	,	EEG .	Alpha		EEG	EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	
(Intercept)	1.6 (1.2 to 2.0)	< 0.001	< 0.001	0.59 (0.18 to 0.99)	0.005	0.014	1.1 (0.61 to 1.5)	< 0.001	< 0.001	
mean_StanceDur	-0.11 (-0.22 to -0.01)	0.040	0.059	0.09 (-0.01 to 0.19)	0.089	0.13	0.15 (0.08 to 0.21)	< 0.001	< 0.001	
group_char		0.063	0.063		0.77	0.77		0.63	0.63	
H1000's	_			_			_			
H2000's	-0.65 (-1.2 to -0.07)			0.14 (-0.44 to 0.72)			0.32 (-0.35 to 0.98)			
H3000's	-0.51 (-1.1 to 0.10)			-0.09 (-0.71 to 0.53)			0.20 (-0.51 to 0.91)			
subj_char.sd(Intercept)	0.96 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)			
Residual.sdObservation	0.36 (NA to NA)			0.34 (NA to NA)			0.21 (NA to NA)			

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Changes in	mean_GaitCycleDur	for Cluster:	10						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.7 (1.2 to 2.1)	< 0.001	< 0.001	0.56 (0.14 to 0.97)	0.009	0.028	1.0 (0.55 to 1.5)	< 0.001	< 0.001
mean_GaitCycleDur	-0.10 (-0.19 to -0.01)	0.037	0.055	0.08 (-0.01 to 0.17)	0.081	0.12	0.13 (0.07 to 0.18)	< 0.001	< 0.001
group_char		0.059	0.059		0.78	0.78		0.62	0.62
H1000's	_			_			_		
H2000's	-0.65 (-1.2 to -0.08)			0.14 (-0.44 to 0.72)			0.33 (-0.34 to 0.99)		
H3000's	-0.52 (-1.1 to 0.09)			-0.08 (-0.70 to 0.53)			0.21 (-0.50 to 0.92)		
subj_char.sd(Intercept)	0.96 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.36 (NA to NA)			0.34 (NA to NA)			0.21 (NA to NA)		

Changes in	mean_PeakUpDownVel_mean	for Cluster:	10						
	EEG The	ta	•	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	1.3 (0.92 to 1.7)	< 0.001	< 0.001	0.68 (0.28 to 1.1)	< 0.001	0.002	1.4 (0.92 to 1.8)	< 0.001	< 0.001
mean_PeakUpDownVel_mean	0.67 (0.28 to 1.1)	< 0.001	0.001	0.08 (-0.31 to 0.46)	0.69	0.76	-0.54 (-0.78 to -0.30)	< 0.001	< 0.001
group_char		0.067	0.067		0.76	0.76		0.66	0.66
H1000's	_			_			_		
H2000's	-0.64 (-1.2 to -0.07)			0.12 (-0.46 to 0.69)			0.30 (-0.36 to 0.97)		
H3000's	-0.49 (-1.1 to 0.11)			-0.13 (-0.74 to 0.49)			0.17 (-0.54 to 0.87)		
subj_char.sd(Intercept)	0.95 (NA to NA)			0.97 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.35 (NA to NA)			0.35 (NA to NA)			0.21 (NA to NA)		

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Changes in	mean_APexc_COV	for Cluster:	11						
	EEG	Theta		EEG .	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.39 (-0.06 to 0.85)	0.092	0.24	3.7 (2.5 to 4.8)	< 0.001	< 0.001	2.0 (1.4 to 2.6)	< 0.001	< 0.001
mean_APexc_COV	0.01 (0.00 to 0.01)	0.23	0.24	-0.02 (-0.04 to 0.01)	0.16	0.23	-0.01 (-0.03 to 0.00)	0.029	0.044
group_char		0.24	0.24		0.40	0.40		0.68	0.68
H1000's	_			_			_		
H2000's	-0.23 (-0.90 to 0.43)			-0.96 (-2.7 to 0.77)			-0.26 (-1.1 to 0.55)		
H3000's	0.35 (-0.30 to 0.99)			0.20 (-1.5 to 1.9)			-0.34 (-1.1 to 0.45)		
subj_char.sd(Intercept)	0.91 (NA to NA)			2.4 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.61 (NA to NA)			0.34 (NA to NA)		

Changes in	mean_APexc_mean	for Cluster:	11						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.50 (0.04 to 0.96)	0.032	0.10	3.1 (1.9 to 4.3)	< 0.001	< 0.001	1.7 (1.1 to 2.3)	< 0.001	< 0.001
mean_APexc_mean	-0.41 (-3.3 to 2.5)	0.78	0.78	5.2 (-1.6 to 12)	0.13	0.20	1.7 (-2.2 to 5.6)	0.39	0.47
group_char		0.19	0.29		0.41	0.41		0.47	0.47
H1000's	_			_			_		
H2000's	-0.20 (-0.86 to 0.46)			-1.0 (-2.7 to 0.71)			-0.33 (-1.1 to 0.47)		
H3000's	0.41 (-0.23 to 1.0)			0.08 (-1.6 to 1.7)			-0.47 (-1.2 to 0.30)		
subj_char.sd(Intercept)	0.90 (NA to NA)			2.4 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.61 (NA to NA)			0.35 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

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 False discovery rate correction for multiple testing

Changes in	mean_MLexc_COV	for Cluster:	11						
	EEG	Theta		EEG .	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.49 (0.03 to 0.95)	0.038	0.12	3.7 (2.5 to 4.8)	< 0.001	< 0.001	1.9 (1.4 to 2.5)	< 0.001	< 0.001
mean_MLexc_COV	0.00 (-0.01 to 0.01)	0.95	0.95	-0.02 (-0.04 to 0.01)	0.19	0.28	-0.01 (-0.02 to 0.00)	0.17	0.26
group_char		0.19	0.29		0.38	0.38		0.43	0.43
H1000's	_			_			_		
H2000's	-0.20 (-0.86 to 0.46)			-1.1 (-2.8 to 0.63)			-0.35 (-1.1 to 0.44)		
H3000's	0.41 (-0.22 to 1.0)			0.01 (-1.6 to 1.7)			-0.49 (-1.3 to 0.27)		
subj_char.sd(Intercept)	0.90 (NA to NA)			2.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.61 (NA to NA)			0.35 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	11						
	EEG	Theta		EEG	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.51 (0.06 to 0.95)	0.027	0.080	3.1 (2.0 to 4.2)	< 0.001	< 0.001	1.6 (1.1 to 2.2)	< 0.001	< 0.001
mean_MLexc_mean	-0.33 (-1.7 to 1.0)	0.64	0.64	4.3 (1.2 to 7.5)	0.007	0.011	1.8 (0.00 to 3.6)	0.050	0.075
group_char		0.19	0.29		0.36	0.36		0.38	0.38
H1000's	_			_			_		
H2000's	-0.19 (-0.85 to 0.47)			-1.1 (-2.8 to 0.56)			-0.37 (-1.2 to 0.42)		
H3000's	0.42 (-0.22 to 1.1)			-0.06 (-1.7 to 1.6)			-0.52 (-1.3 to 0.24)		
subj_char.sd(Intercept)	0.91 (NA to NA)			2.3 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.60 (NA to NA)			0.34 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

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 False discovery rate correction for multiple testing

Changes in	mean_StepDur	for Cluster:	11						
	EEG	Theta		EEG	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.50 (0.04 to 0.96)	0.032	0.10	3.1 (1.9 to 4.3)	< 0.001	< 0.001	1.6 (1.1 to 2.2)	< 0.001	< 0.001
mean_StepDur	-0.02 (-0.17 to 0.13)	0.79	0.79	0.36 (0.00 to 0.72)	0.052	0.079	0.15 (-0.05 to 0.36)	0.15	0.22
group_char		0.20	0.29		0.41	0.41		0.49	0.49
H1000's	_			_			_		
H2000's	-0.20 (-0.86 to 0.46)			-1.0 (-2.7 to 0.72)			-0.32 (-1.1 to 0.48)		
H3000's	0.41 (-0.23 to 1.0)			0.10 (-1.6 to 1.8)			-0.45 (-1.2 to 0.31)		
subj_char.sd(Intercept)	0.90 (NA to NA)			2.4 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.60 (NA to NA)			0.34 (NA to NA)		

Changes in	mean_UDexc_COV	for Cluster:	11						
	EEG	Theta		EEG	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.51 (0.06 to 0.95)	0.025	0.076	3.3 (2.1 to 4.5)	< 0.001	< 0.001	1.7 (1.2 to 2.3)	< 0.001	< 0.001
mean_UDexc_COV	0.00 (-0.01 to 0.01)	0.61	0.61	0.01 (-0.01 to 0.03)	0.32	0.40	0.01 (-0.01 to 0.02)	0.34	0.42
group_char		0.19	0.28		0.40	0.40		0.42	0.42
H1000's	_			_			_		
H2000's	-0.20 (-0.86 to 0.46)			-1.1 (-2.8 to 0.66)			-0.35 (-1.1 to 0.45)		
H3000's	0.41 (-0.22 to 1.0)			0.00 (-1.7 to 1.7)			-0.50 (-1.3 to 0.27)		
subj_char.sd(Intercept)	0.90 (NA to NA)			2.4 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.61 (NA to NA)			0.35 (NA to NA)		

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

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Changes in	mean_UDexc_mean	for Cluster:	11						
	EEG	Theta		EEG	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.43 (-0.02 to 0.88)	0.059	0.18	3.6 (2.5 to 4.8)	< 0.001	< 0.001	2.0 (1.4 to 2.5)	< 0.001	< 0.001
mean_UDexc_mean	2.0 (-2.5 to 6.6)	0.38	0.38	-9.9 (-21 to 0.92)	0.073	0.11	-7.9 (-14 to -1.8)	0.011	0.016
group_char		0.19	0.29		0.40	0.40		0.44	0.44
H1000's	_			_			_		
H2000's	-0.20 (-0.86 to 0.46)			-1.0 (-2.8 to 0.67)			-0.34 (-1.1 to 0.46)		
H3000's	0.41 (-0.23 to 1.0)			0.03 (-1.6 to 1.7)			-0.48 (-1.2 to 0.28)		
subj_char.sd(Intercept)	0.90 (NA to NA)			2.4 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.60 (NA to NA)			0.34 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	11						
	EEG	Theta		EEG	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.49 (0.05 to 0.94)	0.031	0.093	3.1 (2.0 to 4.3)	< 0.001	< 0.001	1.7 (1.1 to 2.2)	< 0.001	< 0.001
mean_StanceDur	-0.01 (-0.10 to 0.08)	0.82	0.82	0.22 (0.01 to 0.44)	0.044	0.067	0.09 (-0.03 to 0.21)	0.15	0.23
group_char		0.19	0.29		0.41	0.41		0.48	0.48
H1000's	_			_			_		
H2000's	-0.20 (-0.86 to 0.46)			-1.0 (-2.7 to 0.72)			-0.32 (-1.1 to 0.48)		
H3000's	0.41 (-0.23 to 1.0)			0.09 (-1.6 to 1.7)			-0.46 (-1.2 to 0.31)		
subj_char.sd(Intercept)	0.90 (NA to NA)			2.4 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.60 (NA to NA)			0.34 (NA to NA)		

CI = Confidence Interval
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Changes in	mean_GaitCycleDur	for Cluster:	11						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.50 (0.04 to 0.96)	0.032	0.10	3.1 (1.9 to 4.3)	< 0.001	< 0.001	1.6 (1.1 to 2.2)	< 0.001	< 0.001
mean_GaitCycleDur	-0.01 (-0.09 to 0.07)	0.79	0.79	0.18 (0.00 to 0.36)	0.053	0.079	0.08 (-0.03 to 0.18)	0.15	0.22
group_char		0.20	0.29		0.41	0.41		0.49	0.49
H1000's	_			_			_		
H2000's	-0.20 (-0.86 to 0.46)			-1.0 (-2.7 to 0.72)			-0.32 (-1.1 to 0.48)		
H3000's	0.41 (-0.23 to 1.0)			0.10 (-1.6 to 1.8)			-0.45 (-1.2 to 0.31)		
subj_char.sd(Intercept)	0.90 (NA to NA)			2.4 (NA to NA)			1.1 (NA to NA)		
Residual.sdObservation	0.26 (NA to NA)			0.60 (NA to NA)			0.34 (NA to NA)		

¹ CI = Confidence Interval

Changes in	mean_PeakUpDownVel_mean	for Cluster:	11							
	EEG The	ta			Alpha		EEG Beta			
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	
(Intercept)	0.44 (0.00 to 0.89)	0.048	0.15	3.6 (2.5 to 4.8)	< 0.001	< 0.001	1.9 (1.4 to 2.5)	< 0.001	< 0.001	
mean_PeakUpDownVel_mean	0.15 (-0.19 to 0.49)	0.38	0.38	-0.97 (-1.8 to -0.18)	0.016	0.024	-0.65 (-1.1 to -0.20)	0.004	0.006	
group_char		0.19	0.29		0.40	0.40		0.46	0.46	
H1000's	_			_			_			
H2000's	-0.20 (-0.86 to 0.46)			-1.0 (-2.8 to 0.68)			-0.33 (-1.1 to 0.46)			
H3000's	0.41 (-0.23 to 1.0)			0.04 (-1.6 to 1.7)			-0.47 (-1.2 to 0.29)			
subj_char.sd(Intercept)	0.90 (NA to NA)			2.4 (NA to NA)			1.1 (NA to NA)			
Residual.sdObservation	0.26 (NA to NA)			0.60 (NA to NA)			0.34 (NA to NA)			

 $^{^{2}}$ False discovery rate correction for multiple testing

CI = Confidence Interval
 False discovery rate correction for multiple testing

Changes in	mean_APexc_COV	for Cluster:	12						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.51 (0.17 to 0.85)	0.003	0.010	1.5 (0.55 to 2.5)	0.002	0.007	0.85 (0.38 to 1.3)	< 0.001	0.001
mean_APexc_COV	0.00 (-0.01 to 0.01)	0.46	0.69	0.01 (-0.01 to 0.02)	0.43	0.43	0.00 (0.00 to 0.01)	0.54	0.69
group_char		0.93	0.93		0.066	0.10		0.69	0.69
H1000's	_			_			_		
H2000's	0.08 (-0.41 to 0.57)			1.6 (0.11 to 3.1)			-0.03 (-0.75 to 0.69)		
H3000's	-0.01 (-0.45 to 0.44)			1.3 (-0.09 to 2.6)			-0.27 (-0.92 to 0.38)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.94 (NA to NA)		
Residual.sdObservation	0.27 (NA to NA)			0.47 (NA to NA)			0.21 (NA to NA)		

Changes in	mean_APexc_mean	for Cluster:	12						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.54 (0.19 to 0.88)	0.002	0.006	1.2 (0.23 to 2.2)	0.015	0.023	0.73 (0.27 to 1.2)	0.002	0.006
mean_APexc_mean	0.54 (-2.4 to 3.5)	0.72	0.92	8.0 (2.9 to 13)	0.002	0.006	2.9 (0.65 to 5.2)	0.012	0.017
group_char		0.92	0.92		0.036	0.036		0.75	0.75
H1000's	_			_			_		
H2000's	0.10 (-0.39 to 0.59)			1.7 (0.25 to 3.2)			0.02 (-0.69 to 0.73)		
H3000's	0.03 (-0.41 to 0.47)			1.4 (0.08 to 2.8)			-0.21 (-0.85 to 0.43)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.93 (NA to NA)		
Residual.sdObservation	0.27 (NA to NA)			0.46 (NA to NA)			0.20 (NA to NA)		

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Changes in	mean_MLexc_COV	for Cluster:	12						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.57 (0.22 to 0.91)	0.001	0.004	1.8 (0.83 to 2.8)	< 0.001	< 0.001	0.99 (0.52 to 1.4)	< 0.001	< 0.001
mean_MLexc_COV	0.00 (-0.01 to 0.01)	0.99	0.99	-0.01 (-0.03 to 0.01)	0.23	0.23	-0.01 (-0.02 to 0.00)	0.11	0.17
group_char		0.92	0.99		0.055	0.083		0.72	0.72
H1000's	_			_			_		
H2000's	0.10 (-0.39 to 0.59)			1.6 (0.13 to 3.1)			-0.03 (-0.74 to 0.68)		
H3000's	0.02 (-0.41 to 0.46)			1.3 (-0.02 to 2.7)			-0.25 (-0.89 to 0.39)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.93 (NA to NA)		
Residual.sdObservation	0.27 (NA to NA)			0.47 (NA to NA)			0.21 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	12						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.58 (0.25 to 0.90)	< 0.001	0.002	1.3 (0.37 to 2.3)	0.007	0.010	0.74 (0.28 to 1.2)	0.002	0.002
mean_MLexc_mean	-0.13 (-1.5 to 1.3)	0.86	0.92	3.8 (1.4 to 6.2)	0.002	0.006	1.8 (0.75 to 2.9)	< 0.001	0.002
group_char		0.92	0.92		0.061	0.061		0.70	0.70
H1000's	_			_			_		
H2000's	0.10 (-0.39 to 0.59)			1.6 (0.12 to 3.1)			-0.03 (-0.75 to 0.69)		
H3000's	0.02 (-0.41 to 0.46)			1.3 (-0.05 to 2.7)			-0.26 (-0.91 to 0.39)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.94 (NA to NA)		
Residual.sdObservation	0.27 (NA to NA)			0.46 (NA to NA)			0.20 (NA to NA)		

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Changes in	mean_StepDur	for Cluster:	12						
	EEG	Theta	•	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.56 (0.22 to 0.91)	0.001	0.004	1.2 (0.19 to 2.1)	0.019	0.028	0.74 (0.28 to 1.2)	0.002	0.005
mean_StepDur	0.00 (-0.17 to 0.17)	0.97	0.97	0.52 (0.24 to 0.81)	< 0.001	0.001	0.16 (0.03 to 0.29)	0.015	0.023
group_char		0.92	0.97		0.035	0.035		0.76	0.76
H1000's	_			_			_		
H2000's	0.10 (-0.39 to 0.59)			1.7 (0.24 to 3.2)			0.01 (-0.70 to 0.72)		
H3000's	0.02 (-0.42 to 0.46)			1.4 (0.10 to 2.8)			-0.21 (-0.86 to 0.43)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.93 (NA to NA)		
Residual.sdObservation	0.27 (NA to NA)			0.45 (NA to NA)			0.20 (NA to NA)		

¹ CI = Confidence Interval

Changes in	mean_UDexc_COV	for Cluster:	12							
	EEG	Theta		EEG	Alpha		EEG Beta			
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	
(Intercept)	0.58 (0.26 to 0.90)	< 0.001	0.001	1.4 (0.41 to 2.3)	0.005	0.008	0.80 (0.34 to 1.3)	< 0.001	0.002	
mean_UDexc_COV	0.00 (-0.01 to 0.01)	0.82	0.92	0.02 (0.01 to 0.04)	0.002	0.007	0.01 (0.00 to 0.01)	0.029	0.044	
group_char		0.92	0.92		0.058	0.058		0.71	0.71	
H1000's	_			_			_			
H2000's	0.10 (-0.39 to 0.59)			1.6 (0.13 to 3.1)			-0.02 (-0.74 to 0.70)			
H3000's	0.02 (-0.41 to 0.46)			1.3 (-0.04 to 2.7)			-0.25 (-0.90 to 0.39)			
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.94 (NA to NA)			
Residual.sdObservation	0.27 (NA to NA)			0.46 (NA to NA)			0.20 (NA to NA)			

 $^{^{2}}$ False discovery rate correction for multiple testing

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Changes in	mean_UDexc_mean	for Cluster:	12						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.52 (0.20 to 0.84)	0.002	0.005	1.8 (0.87 to 2.8)	< 0.001	< 0.001	0.98 (0.53 to 1.4)	< 0.001	< 0.001
mean_UDexc_mean	2.1 (-2.5 to 6.7)	0.37	0.55	-8.3 (-16 to -0.12)	0.047	0.049	-4.1 (-7.7 to -0.59)	0.022	0.033
group_char		0.93	0.93		0.049	0.049		0.73	0.73
H1000's	_			_			_		
H2000's	0.09 (-0.39 to 0.58)			1.7 (0.17 to 3.2)			-0.01 (-0.72 to 0.71)		
H3000's	0.02 (-0.42 to 0.46)			1.4 (0.01 to 2.7)			-0.24 (-0.88 to 0.41)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.94 (NA to NA)		
Residual.sdObservation	0.27 (NA to NA)			0.47 (NA to NA)			0.20 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	12						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.56 (0.23 to 0.89)	< 0.001	0.003	1.3 (0.30 to 2.2)	0.010	0.015	0.77 (0.31 to 1.2)	< 0.001	0.003
mean_StanceDur	0.00 (-0.10 to 0.11)	0.92	0.92	0.31 (0.14 to 0.48)	< 0.001	0.001	0.10 (0.02 to 0.17)	0.015	0.023
group_char		0.92	0.92		0.037	0.037		0.75	0.75
H1000's	_			_					
H2000's	0.10 (-0.39 to 0.59)			1.7 (0.23 to 3.2)			0.01 (-0.71 to 0.72)		
H3000's	0.03 (-0.41 to 0.46)			1.4 (0.08 to 2.8)			-0.22 (-0.86 to 0.42)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.93 (NA to NA)		
Residual.sdObservation	0.27 (NA to NA)			0.46 (NA to NA)			0.20 (NA to NA)		

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Changes in	mean_GaitCycleDur	for Cluster:	12						
	EEG	Theta	,	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.57 (0.22 to 0.91)	0.001	0.004	1.2 (0.20 to 2.1)	0.019	0.028	0.74 (0.28 to 1.2)	0.002	0.005
mean_GaitCycleDur	0.00 (-0.08 to 0.09)	0.98	0.98	0.26 (0.12 to 0.40)	< 0.001	0.001	0.08 (0.02 to 0.14)	0.015	0.023
group_char		0.92	0.98		0.035	0.035		0.76	0.76
H1000's	_			_			_		
H2000's	0.10 (-0.39 to 0.59)			1.7 (0.24 to 3.2)			0.01 (-0.70 to 0.72)		
H3000's	0.02 (-0.42 to 0.46)			1.4 (0.10 to 2.8)			-0.21 (-0.86 to 0.43)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.93 (NA to NA)		
Residual.sdObservation	0.27 (NA to NA)			0.46 (NA to NA)			0.20 (NA to NA)		

Changes in	mean_PeakUpDownVel_mean	for Cluster:	12						
	EEG The	ta	•	EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.54 (0.22 to 0.85)	< 0.001	0.002	1.8 (0.87 to 2.8)	< 0.001	< 0.001	0.96 (0.51 to 1.4)	< 0.001	< 0.001
mean_PeakUpDownVel_mean	0.13 (-0.21 to 0.47)	0.46	0.69	-0.76 (-1.4 to -0.17)	0.012	0.017	-0.33 (-0.59 to -0.07)	0.012	0.018
group_char		0.93	0.93		0.046	0.046		0.74	0.74
H1000's	_			_			_		
H2000's	0.09 (-0.39 to 0.58)			1.7 (0.18 to 3.2)			-0.01 (-0.72 to 0.71)		
H3000's	0.02 (-0.42 to 0.46)			1.4 (0.02 to 2.7)			-0.23 (-0.87 to 0.41)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.0 (NA to NA)			0.93 (NA to NA)		
Residual.sdObservation	0.27 (NA to NA)			0.47 (NA to NA)			0.20 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

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Changes in	mean_APexc_COV	for Cluster:	13						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.28 (-0.06 to 0.62)	0.11	0.16	2.3 (1.3 to 3.3)	< 0.001	< 0.001	1.0 (0.55 to 1.5)	< 0.001	< 0.001
mean_APexc_COV	0.00 (-0.02 to 0.01)	0.57	0.57	0.02 (-0.01 to 0.04)	0.20	0.30	0.01 (0.00 to 0.02)	0.088	0.10
group_char		0.081	0.16		0.36	0.36		0.10	0.10
H1000's	_			_			_		
H2000's	0.42 (-0.14 to 0.99)			-0.94 (-2.9 to 1.0)			-0.06 (-0.90 to 0.79)		
H3000's	0.48 (0.03 to 0.94)			-1.0 (-2.6 to 0.52)			-0.72 (-1.4 to -0.04)		
subj_char.sd(Intercept)	0.64 (NA to NA)			2.3 (NA to NA)			0.98 (NA to NA)		
Residual.sdObservation	0.32 (NA to NA)			0.60 (NA to NA)			0.32 (NA to NA)		

Changes in	mean_APexc_mean	for Cluster:	13						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.44 (0.11 to 0.78)	0.010	0.029	2.2 (1.2 to 3.3)	< 0.001	< 0.001	1.1 (0.65 to 1.6)	< 0.001	< 0.001
mean_APexc_mean	-4.1 (-7.7 to -0.47)	0.027	0.040	5.6 (-1.4 to 13)	0.12	0.17	1.5 (-2.2 to 5.3)	0.43	0.43
group_char		0.16	0.16		0.52	0.52		0.19	0.29
H1000's	_			_			_		
H2000's	0.37 (-0.18 to 0.93)			-0.81 (-2.8 to 1.1)			0.02 (-0.82 to 0.86)		
H3000's	0.38 (-0.06 to 0.82)			-0.80 (-2.3 to 0.75)			-0.58 (-1.2 to 0.08)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.3 (NA to NA)			0.97 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.60 (NA to NA)			0.32 (NA to NA)		

CI = Confidence Interval
 Palse discovery rate correction for multiple testing

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Changes in	mean_MLexc_COV	for Cluster:	13						
	EEG	Theta	•	EEG .	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.06 (-0.28 to 0.40)	0.72	0.72	2.7 (1.6 to 3.7)	< 0.001	< 0.001	1.3 (0.79 to 1.7)	< 0.001	< 0.001
mean_MLexc_COV	0.01 (0.00 to 0.02)	0.13	0.20	-0.01 (-0.03 to 0.02)	0.59	0.59	0.00 (-0.02 to 0.01)	0.57	0.57
group_char		0.086	0.20		0.45	0.59		0.16	0.24
H1000's	_			_			_		
H2000's	0.41 (-0.15 to 0.97)			-0.85 (-2.8 to 1.1)			0.00 (-0.83 to 0.84)		
H3000's	0.46 (0.02 to 0.90)			-0.89 (-2.4 to 0.64)			-0.61 (-1.3 to 0.05)		
subj_char.sd(Intercept)	0.64 (NA to NA)			2.3 (NA to NA)			0.97 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.60 (NA to NA)			0.32 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	13						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.41 (0.10 to 0.72)	0.009	0.014	2.2 (1.2 to 3.2)	< 0.001	< 0.001	1.1 (0.64 to 1.5)	< 0.001	< 0.001
mean_MLexc_mean	-2.4 (-4.1 to -0.68)	0.006	0.014	4.6 (1.3 to 7.9)	0.007	0.010	1.5 (-0.35 to 3.3)	0.11	0.16
group_char		0.085	0.085		0.43	0.43		0.16	0.16
H1000's	_			_			_		
H2000's	0.43 (-0.14 to 0.99)			-0.89 (-2.8 to 1.0)			-0.01 (-0.84 to 0.83)		
H3000's	0.46 (0.02 to 0.91)			-0.91 (-2.4 to 0.61)			-0.61 (-1.3 to 0.04)		
subj_char.sd(Intercept)	0.65 (NA to NA)			2.3 (NA to NA)			0.97 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.59 (NA to NA)			0.32 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

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Changes in	mean_StepDur	for Cluster:	13						
	EEG	Theta		EEG	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.45 (0.13 to 0.77)	0.006	0.012	2.2 (1.2 to 3.2)	< 0.001	< 0.001	1.1 (0.65 to 1.5)	< 0.001	< 0.001
mean_StepDur	-0.25 (-0.44 to -0.07)	0.008	0.012	0.38 (0.02 to 0.74)	0.039	0.059	0.11 (-0.08 to 0.31)	0.26	0.26
group_char		0.17	0.17		0.52	0.52		0.19	0.26
H1000's	_			_			_		
H2000's	0.37 (-0.19 to 0.93)			-0.80 (-2.7 to 1.2)			0.02 (-0.82 to 0.86)		
H3000's	0.39 (-0.06 to 0.83)			-0.80 (-2.3 to 0.74)			-0.58 (-1.2 to 0.08)		
subj_char.sd(Intercept)	0.64 (NA to NA)			2.3 (NA to NA)			0.97 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.59 (NA to NA)			0.32 (NA to NA)		

Changes in	mean_UDexc_COV	for Cluster:	13						
	EEG	Theta	•	EEG	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.45 (0.16 to 0.74)	0.002	0.003	2.3 (1.4 to 3.3)	< 0.001	< 0.001	1.1 (0.69 to 1.5)	< 0.001	< 0.001
mean_UDexc_COV	-0.02 (-0.03 to -0.01)	< 0.001	< 0.001	0.02 (0.00 to 0.03)	0.080	0.12	0.01 (0.00 to 0.02)	0.21	0.21
group_char		0.064	0.064		0.45	0.45		0.16	0.21
H1000's	_			_			_		
H2000's	0.43 (-0.11 to 0.97)			-0.87 (-2.8 to 1.1)			0.00 (-0.84 to 0.84)		
H3000's	0.47 (0.04 to 0.90)			-0.90 (-2.5 to 0.64)			-0.61 (-1.3 to 0.05)		
subj_char.sd(Intercept)	0.62 (NA to NA)			2.3 (NA to NA)			0.98 (NA to NA)		
Residual.sdObservation	0.30 (NA to NA)			0.59 (NA to NA)			0.32 (NA to NA)		

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 False discovery rate correction for multiple testing

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Changes in	mean_UDexc_mean	for Cluster:	13						
	EEG	Theta		EEG	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	-0.05 (-0.35 to 0.26)	0.77	0.77	2.8 (1.8 to 3.8)	< 0.001	< 0.001	1.3 (0.90 to 1.8)	< 0.001	< 0.001
mean_UDexc_mean	11 (5.7 to 17)	< 0.001	< 0.001	-10 (-21 to 1.1)	0.078	0.12	-5.9 (-12 to 0.09)	0.054	0.081
group_char		0.10	0.15		0.46	0.46		0.17	0.17
H1000's	_			_			_		
H2000's	0.40 (-0.15 to 0.95)			-0.85 (-2.8 to 1.1)			0.01 (-0.83 to 0.84)		
H3000's	0.44 (0.00 to 0.87)			-0.88 (-2.4 to 0.66)			-0.60 (-1.3 to 0.06)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.3 (NA to NA)			0.97 (NA to NA)		
Residual.sdObservation	0.30 (NA to NA)			0.59 (NA to NA)			0.32 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	13						
	EEG	Theta		EEG	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.40 (0.10 to 0.71)	0.010	0.015	2.3 (1.3 to 3.3)	< 0.001	< 0.001	1.1 (0.68 to 1.5)	< 0.001	< 0.001
mean_StanceDur	-0.15 (-0.26 to -0.04)	0.008	0.015	0.24 (0.02 to 0.45)	0.029	0.044	0.07 (-0.05 to 0.18)	0.25	0.25
group_char		0.15	0.15		0.51	0.51		0.19	0.25
H1000's	_			_			_		
H2000's	0.38 (-0.18 to 0.94)			-0.81 (-2.8 to 1.1)			0.02 (-0.82 to 0.86)		
H3000's	0.40 (-0.04 to 0.84)			-0.81 (-2.3 to 0.73)			-0.58 (-1.2 to 0.08)		
subj_char.sd(Intercept)	0.64 (NA to NA)			2.3 (NA to NA)			0.97 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.59 (NA to NA)			0.32 (NA to NA)		

CI = Confidence Interval
 Palse discovery rate correction for multiple testing

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Changes in	mean_GaitCycleDur	for Cluster:	13						
	EEG	Theta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.45 (0.13 to 0.77)	0.006	0.012	2.2 (1.2 to 3.2)	< 0.001	< 0.001	1.1 (0.65 to 1.5)	< 0.001	< 0.001
mean_GaitCycleDur	-0.13 (-0.22 to -0.03)	0.008	0.012	0.19 (0.01 to 0.37)	0.039	0.059	0.06 (-0.04 to 0.15)	0.26	0.26
group_char		0.17	0.17		0.52	0.52		0.19	0.26
H1000's	_			_			_		
H2000's	0.37 (-0.19 to 0.93)			-0.80 (-2.7 to 1.2)			0.02 (-0.82 to 0.86)		
H3000's	0.39 (-0.06 to 0.83)			-0.80 (-2.3 to 0.74)			-0.58 (-1.2 to 0.08)		
subj_char.sd(Intercept)	0.64 (NA to NA)			2.3 (NA to NA)			0.97 (NA to NA)		
Residual.sdObservation	0.31 (NA to NA)			0.59 (NA to NA)			0.32 (NA to NA)		

¹ CI = Confidence Interval

Changes in	mean_PeakUpDownVel_mean	for Cluster:	13						
	EEG The	ta		EEG	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.01 (-0.28 to 0.30)	0.95	0.95	2.8 (1.8 to 3.7)	< 0.001	< 0.001	1.3 (0.87 to 1.7)	< 0.001	< 0.001
mean_PeakUpDownVel_mean	0.90 (0.49 to 1.3)	< 0.001	< 0.001	-0.86 (-1.7 to -0.05)	0.039	0.058	-0.42 (-0.86 to 0.01)	0.057	0.086
group_char		0.13	0.19		0.48	0.48		0.18	0.18
H1000's	_			_			_		
H2000's	0.39 (-0.16 to 0.94)			-0.84 (-2.8 to 1.1)			0.01 (-0.82 to 0.85)		
H3000's	0.41 (-0.03 to 0.84)			-0.85 (-2.4 to 0.69)			-0.59 (-1.2 to 0.07)		
subj_char.sd(Intercept)	0.63 (NA to NA)			2.3 (NA to NA)			0.97 (NA to NA)		
Residual.sdObservation	0.30 (NA to NA)			0.59 (NA to NA)			0.32 (NA to NA)		

 $^{^{2}}$ False discovery rate correction for multiple testing

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 False discovery rate correction for multiple testing

Changes in	mean_APexc_COV	for Cluster:	14						
	EEG	Theta	,	EEG	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.46 (0.12 to 0.79)	0.007	0.022	4.3 (3.3 to 5.2)	< 0.001	< 0.001	2.5 (2.0 to 3.0)	< 0.001	< 0.001
mean_APexc_COV	0.00 (0.00 to 0.01)	0.74	0.74	0.00 (-0.02 to 0.01)	0.84	0.84	0.01 (0.00 to 0.02)	0.078	0.12
group_char		0.58	0.74		0.44	0.66		0.74	0.74
H1000's	_			_			_		
H2000's	-0.20 (-0.71 to 0.30)			-0.90 (-2.3 to 0.55)			-0.28 (-1.1 to 0.52)		
H3000's	0.07 (-0.42 to 0.56)			-0.65 (-2.1 to 0.76)			0.03 (-0.75 to 0.80)		
subj_char.sd(Intercept)	0.83 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.19 (NA to NA)			0.55 (NA to NA)			0.31 (NA to NA)		

Changes in	mean_APexc_mean	for Cluster:	14						
	EEG	Theta	,	EEG	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.54 (0.20 to 0.87)	0.002	0.005	4.0 (3.0 to 4.9)	< 0.001	< 0.001	2.4 (1.9 to 3.0)	< 0.001	< 0.001
mean_APexc_mean	-1.2 (-2.9 to 0.56)	0.19	0.28	4.9 (-0.16 to 10)	0.058	0.087	4.0 (1.1 to 6.9)	0.006	0.010
group_char		0.58	0.58		0.48	0.48		0.73	0.73
H1000's	_			_			_		
H2000's	-0.21 (-0.72 to 0.29)			-0.86 (-2.3 to 0.59)			-0.19 (-0.99 to 0.61)		
H3000's	0.06 (-0.43 to 0.55)			-0.59 (-2.0 to 0.82)			0.16 (-0.62 to 0.94)		
subj_char.sd(Intercept)	0.84 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.19 (NA to NA)			0.55 (NA to NA)			0.31 (NA to NA)		

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Changes in	mean_MLexc_COV	for Cluster:	14						
	EEG	Theta		EEG .	Alpha		EEG	Beta	
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.44 (0.11 to 0.78)	0.010	0.029	4.5 (3.5 to 5.4)	< 0.001	< 0.001	2.7 (2.2 to 3.3)	< 0.001	< 0.001
mean_MLexc_COV	0.00 (0.00 to 0.01)	0.46	0.58	-0.02 (-0.04 to 0.00)	0.046	0.069	-0.01 (-0.02 to 0.00)	0.19	0.29
group_char		0.58	0.58		0.41	0.41		0.73	0.73
H1000's	_			_			_		
H2000's	-0.20 (-0.70 to 0.31)			-0.92 (-2.4 to 0.52)			-0.24 (-1.0 to 0.56)		
H3000's	0.08 (-0.41 to 0.57)			-0.67 (-2.1 to 0.74)			0.10 (-0.68 to 0.87)		
subj_char.sd(Intercept)	0.83 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.19 (NA to NA)			0.55 (NA to NA)			0.32 (NA to NA)		

Changes in	mean_MLexc_mean	for Cluster:	14						
	EEG	Theta		EEG	Alpha		EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.55 (0.22 to 0.88)	0.001	0.003	4.0 (3.0 to 4.9)	< 0.001	< 0.001	2.4 (1.9 to 3.0)	< 0.001	< 0.001
mean_MLexc_mean	-0.99 (-1.8 to -0.17)	0.018	0.027	2.9 (0.50 to 5.4)	0.018	0.027	2.4 (1.1 to 3.8)	< 0.001	< 0.001
group_char		0.59	0.59		0.41	0.41		0.72	0.72
H1000's	_			_			_		
H2000's	-0.19 (-0.70 to 0.31)			-0.93 (-2.4 to 0.52)			-0.25 (-1.0 to 0.56)		
H3000's	0.08 (-0.41 to 0.57)			-0.66 (-2.1 to 0.74)			0.09 (-0.68 to 0.87)		
subj_char.sd(Intercept)	0.84 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.18 (NA to NA)			0.55 (NA to NA)			0.31 (NA to NA)		

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Changes in	mean_StepDur	for Cluster:	14						
	EEG Theta			EEG Alpha			EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.56 (0.23 to 0.90)	< 0.001	0.003	3.9 (3.0 to 4.9)	< 0.001	< 0.001	2.5 (1.9 to 3.0)	< 0.001	< 0.001
mean_StepDur	-0.10 (-0.19 to -0.01)	0.036	0.054	0.33 (0.06 to 0.61)	0.018	0.028	0.20 (0.05 to 0.36)	0.012	0.017
group_char		0.58	0.58		0.48	0.48		0.73	0.73
H1000's	_			_			_		
H2000's	-0.21 (-0.72 to 0.29)			-0.86 (-2.3 to 0.59)			-0.20 (-1.0 to 0.60)		
H3000's	0.06 (-0.43 to 0.55)			-0.59 (-2.0 to 0.82)			0.14 (-0.63 to 0.92)		
subj_char.sd(Intercept)	0.84 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.18 (NA to NA)			0.55 (NA to NA)			0.31 (NA to NA)		

Changes in	mean_UDexc_COV	for Cluster:	14						
	EEG Theta			EEG Alpha			EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.52 (0.19 to 0.84)	0.002	0.006	4.1 (3.2 to 5.0)	< 0.001	< 0.001	2.5 (2.0 to 3.0)	< 0.001	< 0.001
mean_UDexc_COV	0.00 (-0.01 to 0.00)	0.13	0.20	0.01 (0.00 to 0.02)	0.11	0.17	0.01 (0.00 to 0.02)	0.004	0.006
group_char		0.58	0.58		0.42	0.42		0.74	0.74
H1000's	_			_			_		
H2000's	-0.20 (-0.70 to 0.31)			-0.92 (-2.4 to 0.53)			-0.24 (-1.0 to 0.56)		
H3000's	0.08 (-0.41 to 0.57)			-0.67 (-2.1 to 0.73)			0.08 (-0.69 to 0.86)		
subj_char.sd(Intercept)	0.83 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.19 (NA to NA)			0.55 (NA to NA)			0.31 (NA to NA)		

CI = Confidence Interval
 False discovery rate correction for multiple testing

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing

Changes in	mean_UDexc_mean	for Cluster:	14						
	EEG Theta			EEG Alpha			EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.38 (0.05 to 0.71)	0.022	0.033	4.5 (3.5 to 5.4)	< 0.001	< 0.001	2.8 (2.3 to 3.3)	< 0.001	< 0.001
mean_UDexc_mean	3.7 (1.0 to 6.4)	0.007	0.020	-10 (-18 to -2.4)	0.011	0.016	-5.8 (-10 to -1.2)	0.014	0.020
group_char		0.58	0.58		0.43	0.43		0.74	0.74
H1000's	_			_			_		
H2000's	-0.20 (-0.70 to 0.31)			-0.91 (-2.4 to 0.54)			-0.23 (-1.0 to 0.56)		
H3000's	0.08 (-0.41 to 0.57)			-0.66 (-2.1 to 0.74)			0.10 (-0.67 to 0.87)		
subj_char.sd(Intercept)	0.83 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.18 (NA to NA)			0.54 (NA to NA)			0.31 (NA to NA)		

Changes in	mean_StanceDur	for Cluster:	14						
	EEG Theta			EEG Alpha			EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.55 (0.22 to 0.88)	0.001	0.003	4.0 (3.0 to 4.9)	< 0.001	< 0.001	2.5 (2.0 to 3.0)	< 0.001	< 0.001
mean_StanceDur	-0.06 (-0.12 to -0.01)	0.026	0.039	0.20 (0.03 to 0.36)	0.018	0.027	0.12 (0.03 to 0.22)	0.009	0.013
group_char		0.58	0.58		0.47	0.47		0.73	0.73
H1000's	_			_			_		
H2000's	-0.21 (-0.72 to 0.29)			-0.86 (-2.3 to 0.58)			-0.20 (-1.0 to 0.60)		
H3000's	0.06 (-0.43 to 0.55)			-0.60 (-2.0 to 0.81)			0.14 (-0.64 to 0.91)		
subj_char.sd(Intercept)	0.84 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.18 (NA to NA)			0.55 (NA to NA)			0.31 (NA to NA)		

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 Palse discovery rate correction for multiple testing

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Changes in	mean_GaitCycleDur	for Cluster:	14						
	EEG Theta			EEG Alpha			EEG Beta		
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.56 (0.23 to 0.90)	< 0.001	0.003	3.9 (3.0 to 4.9)	< 0.001	< 0.001	2.5 (1.9 to 3.0)	< 0.001	< 0.001
mean_GaitCycleDur	-0.05 (-0.10 to 0.00)	0.036	0.054	0.16 (0.03 to 0.30)	0.019	0.028	0.10 (0.02 to 0.18)	0.012	0.017
group_char		0.58	0.58		0.48	0.48		0.73	0.73
H1000's	_			_			_		
H2000's	-0.21 (-0.72 to 0.29)			-0.86 (-2.3 to 0.59)			-0.20 (-1.0 to 0.60)		
H3000's	0.06 (-0.43 to 0.55)			-0.59 (-2.0 to 0.82)			0.14 (-0.63 to 0.92)		
subj_char.sd(Intercept)	0.84 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.18 (NA to NA)			0.55 (NA to NA)			0.31 (NA to NA)		

¹ CI = Confidence Interval

Changes in	mean_PeakUpDownVel_mean	for Cluster:	14						
	EEG The	EEG	Alpha		EEG Beta				
Characteristic	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value	Beta (95% CI)	p-value	q-value
(Intercept)	0.41 (0.08 to 0.74)	0.014	0.021	4.4 (3.5 to 5.4)	< 0.001	< 0.001	2.8 (2.2 to 3.3)	< 0.001	< 0.001
mean_PeakUpDownVel_mean	0.27 (0.07 to 0.47)	0.009	0.021	-0.83 (-1.4 to -0.24)	0.006	0.009	-0.47 (-0.81 to -0.13)	0.006	0.010
group_char		0.58	0.58		0.44	0.44		0.74	0.74
H1000's	_			_			_		
H2000's	-0.20 (-0.71 to 0.30)			-0.89 (-2.3 to 0.56)			-0.22 (-1.0 to 0.57)		
H3000's	0.07 (-0.42 to 0.56)			-0.64 (-2.0 to 0.76)			0.11 (-0.66 to 0.88)		
subj_char.sd(Intercept)	0.83 (NA to NA)			2.4 (NA to NA)			1.3 (NA to NA)		
Residual.sdObservation	0.18 (NA to NA)			0.54 (NA to NA)			0.31 (NA to NA)		

 $^{^{2}}$ False discovery rate correction for multiple testing

¹ CI = Confidence Interval ² False discovery rate correction for multiple testing