

SPSS Code and Output**Volitional Processes in Changing Physical Activity: A Randomized Controlled Trial with Individuals
with Knee Osteoarthritis**

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S-Table 5**MVPA Across 24 Months**

```
MIXED mvpaagt WITH time24 groupfu
  /FIXED=time24 groupfu time24*groupfu | SSTYPE(3)
  /METHOD=REML
  /PRINT=G SOLUTION TESTCOV
  /RANDOM=INTERCEPT time24*groupfu | SUBJECT(id) COVTYPE(UN)
  /REPEATED=time24 | SUBJECT(id) COVTYPE(AR1).
```

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	time24	1		1
	groupfu	1		1
	time24 * groupfu	1		1
Random Effects	Intercept + time24 * groupfu	2	Unstructured	3
Repeated Effects	time24	3	First-Order Autoregressive	2
Total		9		9

Model Dimension^a

		Subject Variables	Number of Subjects
Fixed Effects	Intercept		
	time24		
	groupfu		
	time24 * groupfu		
Random Effects	Intercept + time24 * groupfu	id	
Repeated Effects	time24	id	236
Total			

a. Dependent Variable: mvpaagt.

Information Criteria^a

-2 Restricted Log Likelihood	4584,14851318
Akaike's Information Criterion (AIC)	4594,14851318
Hurvich and Tsai's Criterion (AICC)	4594,26851318
Bozdogan's Criterion (CAIC)	4620,28119653
Schwarz's Bayesian Criterion (BIC)	4615,28119653

The information criteria are displayed in smaller-is-better form.^a

a. Dependent Variable: mvpaagt.

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	264,377	186,490	<,001
time24	1	79,286	22,043	<,001
groupfu	1	267,877	,001	,976
time24 * groupfu	1	139,398	1,252	,265

a. Dependent Variable: mvpaagt.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval
						Lower Bound
Intercept	38,858	2,845	264,377	13,656	<,001	33,256
time24	-,446	,095	79,286	-4,695	<,001	-,635
groupfu	,120	4,017	267,877	,030	,976	-7,788
time24 * groupfu	,153	,136	139,398	1,119	,265	-,117

Estimates of Fixed Effects^a

Parameter	95% Confidence Interval
	Upper Bound
Intercept	44,461
time24	-,257
groupfu	8,029
time24 * groupfu	,422

a. Dependent Variable: mvpaagt.

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error	Wald Z	Sig.
		Repeated Measures	AR1 diagonal	184,045	31,301
	AR1 rho	-,020	,161	-,124	,901
Intercept + time24 * groupfu	UN (1,1)	579,341	77,391	7,486	<,001
[subject = id]	UN (2,1)	-,837	2,922	-,286	,775
	UN (2,2)	,056	,174	,323	,747

Estimates of Covariance Parameters^a

Parameter		95% Confidence Interval	
		Lower Bound	Upper Bound
Repeated Measures	AR1 diagonal	131,874	256,856
	AR1 rho	-,324	,288
Intercept + time24 * groupfu	UN (1,1)	445,889	752,735
[subject = id]	UN (2,1)	-6,564	4,891
	UN (2,2)	,000	24,414

a. Dependent Variable: mvpaagt.

Random Effect Covariance Structure (G)^a

	Intercept id	time24 * groupfu id
Intercept id	579,341	-,837
time24 * groupfu id	-,837	,056

Unstructured^a

a. Dependent Variable: mvpaagt.

Muscle Strength Training Across 24 Months

```
MIXED muskeltraint WITH time24 groupfu
  /FIXED=time24 groupfu time24*groupfu | SSTYPE(3)
  /METHOD=REML
  /PRINT=G SOLUTION TESTCOV
  /RANDOM=INTERCEPT time24 | SUBJECT(id) COVTYPE(UN)
  /REPEATED=time24 | SUBJECT(id) COVTYPE(AR1).
```

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	time24	1		1
	groupfu	1		1
	time24 * groupfu	1		1
Random Effects	Intercept + time24	2	Unstructured	3
Repeated Effects	time24	5	First-Order Autoregressive	2
Total		11		9

Model Dimension^a

		Subject Variables	Number of Subjects
Fixed Effects	Intercept		
	time24		
	groupfu		
	time24 * groupfu		
Random Effects	Intercept + time24	id	
Repeated Effects	time24	id	241
Total			

a. Dependent Variable: M0: Muskeltraining pro Tag trunkiert (ka48, ka49, ka50, ka51 aggregiert).

Information Criteria^a

-2 Restricted Log Likelihood	7895,44167404
Akaike's Information Criterion (AIC)	7905,44167404
Hurvich and Tsai's Criterion (AICC)	7905,50908977
Bozdogan's Criterion (CAIC)	7934,43137611
Schwarz's Bayesian Criterion (BIC)	7929,43137611

The information criteria are displayed in smaller-is-better form.^a

a. Dependent Variable: M0: Muskeltraining pro Tag trunkiert (ka48, ka49, ka50, ka51 aggregiert).

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	178,935	72,186	<,001
time24	1	174,902	4,644	,033
groupfu	1	181,170	,599	,440
time24 * groupfu	1	176,444	,383	,537

a. Dependent Variable: M0: Muskeltraining pro Tag trunkiert (ka48, ka49, ka50, ka51 aggregiert).

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval Lower Bound
Intercept	20,744	2,442	178,935	8,496	<,001	15,926
time24	,217	,101	174,902	2,155	,033	,018
groupfu	2,702	3,491	181,170	,774	,440	-4,187
time24 * groupfu	,089	,144	176,444	,619	,537	-,195

Estimates of Fixed Effects^a

Parameter	95% Confidence Interval Upper Bound
Intercept	25,562
time24	,416
groupfu	9,590
time24 * groupfu	,373

a. Dependent Variable: M0:
Muskeltraining pro Tag trunkiert (ka48,
ka49, ka50, ka51 aggregiert).

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error	Wald Z	Sig.
Repeated Measures	AR1 diagonal	219,719	16,017	13,718	<,001
	AR1 rho	-,147	,066	-2,221	,026
Intercept + time24 [subject = id]	UN (1,1)	448,213	64,314	6,969	<,001
	UN (2,1)	9,267	2,282	4,061	<,001
	UN (2,2)	,384	,119	3,222	,001

Estimates of Covariance Parameters^a

Parameter		95% Confidence Interval	
		Lower Bound	Upper Bound
Repeated Measures	AR1 diagonal	190,466	253,465
	AR1 rho	-,274	-,016
Intercept + time24 [subject = id]	UN (1,1)	338,334	593,776
	UN (2,1)	4,794	13,739
	UN (2,2)	,209	,706

a. Dependent Variable: M0: Muskeltraining pro Tag trunkiert (ka48, ka49, ka50, ka51 aggregiert).

Random Effect Covariance Structure (G)^a

	Intercept id	time24 id
Intercept id	448,213	9,267
time24 id	9,267	,384

Unstructured^a

a. Dependent Variable: M0: Muskeltraining pro Tag trunkiert (ka48, ka49, ka50, ka51 aggregiert).

Action Planning Across 24 Months

MIXED acplan WITH time24 groupfu

/FIXED=time24 groupfu time24*groupfu | SSTYPE(3)

/METHOD=REML

/PRINT=G SOLUTION TESTCOV

/RANDOM=INTERCEPT time24*groupfu | SUBJECT(id) COVTYPE(UN)

/REPEATED=time24 | SUBJECT(id) COVTYPE(AR1).

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	time24	1		1
	groupfu	1		1
	time24 * groupfu	1		1
Random Effects	Intercept + time24 * groupfu	2	Unstructured	3
Repeated Effects	time24	5	First-Order Autoregressive	2
Total		11		9

Model Dimension^a

		Subject Variables	Number of Subjects
Fixed Effects	Intercept		
	time24		
	groupfu		
	time24 * groupfu		
Random Effects	Intercept + time24 * groupfu	id	
Repeated Effects	time24	id	241
Total			

a. Dependent Variable: acplan.

Information Criteria^a

-2 Restricted Log Likelihood	3411,65688739
Akaike's Information Criterion (AIC)	3421,65688739
Hurvich and Tsai's Criterion (AICC)	3421,72506921
Bozdogan's Criterion (CAIC)	3450,59047215
Schwarz's Bayesian Criterion (BIC)	3445,59047215

The information criteria are displayed in smaller-is-better form.^a

a. Dependent Variable: acplan.

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	317,527	608,466	<,001
time24	1	270,800	1,776	,184
groupfu	1	303,443	8,002	,005
time24 * groupfu	1	282,195	3,965	,047

a. Dependent Variable: acplan.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval
						Lower Bound
Intercept	3,868	,157	317,527	24,667	<,001	3,560
time24	-,010	,007	270,800	-1,333	,184	-,025
groupfu	,640	,226	303,443	2,829	,005	,195
time24 * groupfu	,022	,011	282,195	1,991	,047	,000

Estimates of Fixed Effects^a

Parameter	95% Confidence Interval
	Upper Bound
Intercept	4,177
time24	,005
groupfu	1,085
time24 * groupfu	,044

a. Dependent Variable: acplan.

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error	Wald Z	Sig.
	AR1 rho	-,084	,058	-1,435	,151
Intercept + time24 * groupfu	UN (1,1)	1,143	,197	5,806	<,001
[subject = id]	UN (2,1)	,014	,012	1,120	,263
	UN (2,2)	,001	,001	,975	,330

Estimates of Covariance Parameters^a

Parameter		95% Confidence Interval	
		Lower Bound	Upper Bound
Repeated Measures	AR1 diagonal	1,723	2,203
	AR1 rho	-,196	,031
Intercept + time24 * groupfu	UN (1,1)	,816	1,603
[subject = id]	UN (2,1)	-,010	,038
	UN (2,2)	,000	,007

a. Dependent Variable: acplan.

Random Effect Covariance Structure (G)^a

	Intercept id	time24 * groupfu id
Intercept id	1,143	,014
time24 * groupfu id	,014	,001

Unstructured^a

a. Dependent Variable: acplan.

Coping Planning Across 24 Months

MIXED coplan WITH time24 groupfu

```

/FIXED=time24 groupfu time24*groupfu | SSTYPE(3)
/METHOD=REML
/PRINT=G SOLUTION TESTCOV
/RANDOM=INTERCEPT | SUBJECT(id) COVTYPE(UN)
/REPEATED=time24 | SUBJECT(id) COVTYPE(AR1).

```

		Model Dimension ^a		
		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	time24	1		1
	groupfu	1		1
	time24 * groupfu	1		1
Random Effects	Intercept	1	Identity	1
Repeated Effects	time24	5	First-Order Autoregressive	2
Total		10		7

		Model Dimension ^a	
		Subject Variables	Number of Subjects
Fixed Effects	Intercept		
	time24		
	groupfu		
	time24 * groupfu		
Random Effects	Intercept	id	
Repeated Effects	time24	id	241
Total			

a. Dependent Variable: coplan.

Information Criteria^a

-2 Restricted Log Likelihood	3108,62466846
Akaike's Information Criterion (AIC)	3114,62466846
Hurvich and Tsai's Criterion (AICC)	3114,65191023
Bozdogan's Criterion (CAIC)	3131,98143140
Schwarz's Bayesian Criterion (BIC)	3128,98143140

The information criteria are displayed in smaller-is-better form.^a

a. Dependent Variable: coplan.

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	415,273	550,884	<,001
time24	1	297,088	1,150	,285
groupfu	1	429,046	,011	,916
time24 * groupfu	1	307,363	,096	,757

a. Dependent Variable: coplan.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval
						Lower Bound
Intercept	3,346	,143	415,273	23,471	<,001	3,066
time24	,007	,006	297,088	1,072	,285	-,006
groupfu	,022	,204	429,046	,106	,916	-,380
time24 * groupfu	,003	,009	307,363	,309	,757	-,015

Estimates of Fixed Effects^a

Parameter	95% Confidence Interval
	Upper Bound
Intercept	3,626
time24	,020
groupfu	,423
time24 * groupfu	,021

a. Dependent Variable: coplan.

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error	Wald Z	Sig.	95% Confidence Interval
						Lower Bound
Repeated Measures	AR1 diagonal	1,360	,084	16,209	<,001	1,205
	AR1 rho	,033	,061	,550	,582	-,086
Intercept [subject = id]	Variance	1,016	,140	7,257	<,001	,775

Estimates of Covariance Parameters^a

Parameter		95% Confidence Interval
		Upper Bound
Repeated Measures	AR1 diagonal	1,535
	AR1 rho	,152
Intercept [subject = id]	Variance	1,331

a. Dependent Variable: coplan.

Random Effect Covariance Structure (G)^a

Intercept id	
Intercept id	1,016

Identity^a

a. Dependent Variable: coplan.

Maintenance Self-Efficacy Across 24 Months

MIXED aufsw WITH time24 groupfu

/FIXED=time24 groupfu time24*groupfu | SSTYPE(3)

/METHOD=REML

/PRINT=G SOLUTION TESTCOV

/RANDOM=INTERCEPT time24*groupfu | SUBJECT(id) COVTYPE(UN)

/REPEATED=time24 | SUBJECT(id) COVTYPE(AR1).

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	time24	1		1
	groupfu	1		1
	time24 * groupfu	1		1
Random Effects	Intercept + time24 * groupfu	2	Unstructured	3
Repeated Effects	time24	5	First-Order Autoregressive	2
Total		11		9

Model Dimension^a

		Subject Variables	Number of Subjects
Fixed Effects	Intercept		
	time24		
	groupfu		
	time24 * groupfu		
Random Effects	Intercept + time24 * groupfu	id	
Repeated Effects	time24	id	241
Total			

a. Dependent Variable: aufsw.

Information Criteria^a

-2 Restricted Log Likelihood	2674,89411763
Akaike's Information Criterion (AIC)	2684,89411763
Hurvich and Tsai's Criterion (AICC)	2684,96176138
Bozdogan's Criterion (CAIC)	2713,86705054
Schwarz's Bayesian Criterion (BIC)	2708,86705054

The information criteria are displayed in smaller-is-better form.^a

a. Dependent Variable: aufsw.

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	342,228	1725,635	<,001
time24	1	243,516	14,358	<,001
groupfu	1	334,503	,628	,429
time24 * groupfu	1	324,492	3,734	,054

a. Dependent Variable: aufsw.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval
						Lower Bound
Intercept	4,069	,098	342,228	41,541	<,001	3,876
time24	-,020	,005	243,516	-3,789	<,001	-,030
groupfu	,112	,141	334,503	,792	,429	-,166
time24 * groupfu	,015	,008	324,492	1,932	,054	,000

Estimates of Fixed Effects^a

Parameter	95% Confidence Interval
	Upper Bound
Intercept	4,262
time24	-,009
groupfu	,389
time24 * groupfu	,030

a. Dependent Variable: aufswe.

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error	Wald Z	Sig.
	AR1 rho	,006	,061	,102	,919
Intercept + time24 * groupfu	UN (1,1)	,297	,081	3,671	<,001
[subject = id]	UN (2,1)	,004	,005	,758	,449
	UN (2,2)	,001	,000	1,245	,213

Estimates of Covariance Parameters^a

Parameter		95% Confidence Interval	
		Lower Bound	Upper Bound
Repeated Measures	AR1 diagonal	,788	1,034
	AR1 rho	-,113	,125
Intercept + time24 * groupfu	UN (1,1)	,174	,507
[subject = id]	UN (2,1)	-,006	,014
	UN (2,2)	,000	,003

a. Dependent Variable: aufswe.

Random Effect Covariance Structure (G)^a

	Intercept id	time24 * groupfu id
Intercept id	,297	,004
time24 * groupfu id	,004	,001

Unstructured^a

a. Dependent Variable: aufswe.

Recovery Self-Efficacy Across 24 Months

MIXED wieswe WITH time24 groupfu

/FIXED=time24 groupfu time24*groupfu | SSTYPE(3)

/METHOD=REML

/PRINT=G SOLUTION TESTCOV

/RANDOM=INTERCEPT time24*groupfu | SUBJECT(id) COVTYPE(UN)

/REPEATED=time24 | SUBJECT(id) COVTYPE(AR1).

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	time24	1		1
	groupfu	1		1
	time24 * groupfu	1		1
Random Effects	Intercept + time24 * groupfu	2	Unstructured	3
Repeated Effects	time24	5	First-Order Autoregressive	2
Total		11		9

Model Dimension^a

		Subject Variables	Number of Subjects
Fixed Effects	Intercept		
	time24		
	groupfu		
	time24 * groupfu		
Random Effects	Intercept + time24 * groupfu	id	
Repeated Effects	time24	id	240
Total			

a. Dependent Variable: wieswe.

Information Criteria^a

-2 Restricted Log Likelihood	2471,92185379
Akaike's Information Criterion (AIC)	2481,92185379
Hurvich and Tsai's Criterion (AICC)	2481,98980396
Bozdogan's Criterion (CAIC)	2510,87233997
Schwarz's Bayesian Criterion (BIC)	2505,87233997

The information criteria are displayed in smaller-is-better form.^a

a. Dependent Variable: wieswe.

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	323,395	2288,516	<,001
time24	1	228,885	19,897	<,001
groupfu	1	302,858	1,345	,247
time24 * groupfu	1	296,696	5,567	,019

a. Dependent Variable: wieswe.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval
						Lower Bound
Intercept	4,629	,097	323,395	47,838	<,001	4,439
time24	-,020	,004	228,885	-4,461	<,001	-,028
groupfu	,162	,140	302,858	1,160	,247	-,113
time24 * groupfu	,016	,007	296,696	2,359	,019	,003

Estimates of Fixed Effects^a

Parameter	95% Confidence Interval
	Upper Bound
Intercept	4,820
time24	-,011
groupfu	,438
time24 * groupfu	,029

a. Dependent Variable: wieswe.

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error	Wald Z	Sig.
	AR1 rho	-,019	,062	-,312	,755
Intercept + time24 * groupfu [subject = id]	UN (1,1)	,474	,082	5,809	<,001
	UN (2,1)	,010	,005	2,096	,036
	UN (2,2)	,001	,000	1,804	,071

Estimates of Covariance Parameters^a

Parameter		95% Confidence Interval	
		Lower Bound	Upper Bound
Repeated Measures	AR1 diagonal	,568	,743
	AR1 rho	-,141	,102
Intercept + time24 * groupfu [subject = id]	UN (1,1)	,338	,665
	UN (2,1)	,001	,019
	UN (2,2)	,000	,002

a. Dependent Variable: wieswe.

Random Effect Covariance Structure (G)^a

	Intercept id	time24 * groupfu id
Intercept id	,474	,010
time24 * groupfu id	,010	,001

Unstructured^a

a. Dependent Variable: wieswe.

Action Control Across 24 Months

MIXED hk WITH time24 groupfu

/FIXED=time24 groupfu time24*groupfu | SSTYPE(3)

/METHOD=REML

/PRINT=G SOLUTION TESTCOV

/RANDOM=INTERCEPT time24*groupfu | SUBJECT(id) COVTYPE(UN)

/REPEATED=time24 | SUBJECT(id) COVTYPE(AR1).

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	time24	1		1
	groupfu	1		1
	time24 * groupfu	1		1
Random Effects	Intercept + time24 * groupfu	2	Unstructured	3
Repeated Effects	time24	5	First-Order Autoregressive	2
Total		11		9

Model Dimension^a

		Subject Variables	Number of Subjects
Fixed Effects	Intercept		
	time24		
	groupfu		
	time24 * groupfu		
Random Effects	Intercept + time24 * groupfu	id	
Repeated Effects	time24	id	241
Total			

a. Dependent Variable: hk.

Information Criteria^a

-2 Restricted Log Likelihood	2839,03548229
Akaike's Information Criterion (AIC)	2849,03548229
Hurvich and Tsai's Criterion (AICC)	2849,10335559
Bozdogan's Criterion (CAIC)	2877,99158960
Schwarz's Bayesian Criterion (BIC)	2872,99158960

The information criteria are displayed in smaller-is-better form.^a

a. Dependent Variable: hk.

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	305,988	777,239	<,001
time24	1	238,561	,018	,893
groupfu	1	291,614	1,169	,281
time24 * groupfu	1	230,607	2,399	,123

a. Dependent Variable: hk.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval
						Lower Bound
Intercept	3,444	,124	305,988	27,879	<,001	3,201
time24	-,001	,005	238,561	-,135	,893	-,011
groupfu	,192	,178	291,614	1,081	,281	-,158
time24 * groupfu	,012	,008	230,607	1,549	,123	-,003

Estimates of Fixed Effects^a

Parameter	95% Confidence Interval
	Upper Bound
Intercept	3,687
time24	,010
groupfu	,542
time24 * groupfu	,028

a. Dependent Variable: hk.

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error	Wald Z	Sig.
	AR1 rho	-,008	,063	-,121	,904
Intercept + time24 * groupfu [subject = id]	UN (1,1)	,889	,132	6,738	<,001
	UN (2,1)	,006	,007	,810	,418
	UN (2,2)	,001	,001	1,253	,210

Estimates of Covariance Parameters^a

Parameter		95% Confidence Interval	
		Lower Bound	Upper Bound
Repeated Measures	AR1 diagonal	,797	1,036
	AR1 rho	-,130	,115
Intercept + time24 * groupfu [subject = id]	UN (1,1)	,665	1,190
	UN (2,1)	-,009	,021
	UN (2,2)	,000	,003

a. Dependent Variable: hk.

Random Effect Covariance Structure (G)^a

	Intercept id	time24 * groupfu id
Intercept id	,889	,006
time24 * groupfu id	,006	,001

Unstructured^a

a. Dependent Variable: hk.

Collaborative Planning Across 24 Months

```

MIXED collimpint WITH time24 groupfu
  /FIXED=time24 groupfu time24*groupfu | SSTYPE(3)
  /METHOD=REML
  /PRINT=G SOLUTION TESTCOV
  /RANDOM=INTERCEPT time24*groupfu | SUBJECT(id) COVTYPE(UN)
  /REPEATED=time24 | SUBJECT(id) COVTYPE(AR1).

```

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	time24	1		1
	groupfu	1		1
	time24 * groupfu	1		1
Random Effects	Intercept + time24 * groupfu	2	Unstructured	3
Repeated Effects	time24	5	First-Order Autoregressive	2
Total		11		9

Model Dimension^a

		Subject Variables	Number of Subjects
Fixed Effects	Intercept		
	time24		
	groupfu		
	time24 * groupfu		
Random Effects	Intercept + time24 * groupfu	id	
Repeated Effects	time24	id	182
Total			

a. Dependent Variable: collimpint.

Information Criteria^a

-2 Restricted Log Likelihood	2006,35793061
Akaike's Information Criterion (AIC)	2016,35793061
Hurvich and Tsai's Criterion (AICC)	2016,48559019
Bozdogan's Criterion (CAIC)	2042,18501989
Schwarz's Bayesian Criterion (BIC)	2037,18501989

The information criteria are displayed in smaller-is-better form.^a

a. Dependent Variable: collimpint.

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	226,174	186,998	<,001
time24	1	140,241	,464	,497
groupfu	1	212,639	1,310	,254
time24 * groupfu	1	162,139	,148	,701

a. Dependent Variable: collimpint.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval
						Lower Bound
Intercept	3,246	,237	226,174	13,675	<,001	2,779
time24	,008	,012	140,241	,681	,497	-,015
groupfu	,403	,352	212,639	1,144	,254	-,291
time24 * groupfu	,007	,018	162,139	,384	,701	-,029

Estimates of Fixed Effects^a

Parameter	95% Confidence Interval
	Upper Bound
Intercept	3,714
time24	,031
groupfu	1,097
time24 * groupfu	,043

a. Dependent Variable: collimpint.

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error	Wald Z	Sig.
	AR1 rho	-,155	,101	-1,531	,126
Intercept + time24 * groupfu [subject = id]	UN (1,1)	1,970	,393	5,013	<,001
	UN (2,1)	,037	,028	1,329	,184
	UN (2,2)	,004	,002	1,617	,106

Estimates of Covariance Parameters^a

Parameter		95% Confidence Interval	
		Lower Bound	Upper Bound
Repeated Measures	AR1 diagonal	1,959	2,821
	AR1 rho	-,344	,047
Intercept + time24 * groupfu [subject = id]	UN (1,1)	1,332	2,912
	UN (2,1)	-,018	,091
	UN (2,2)	,001	,013

a. Dependent Variable: collimpint.

Random Effect Covariance Structure (G)^a

	Intercept id	time24 * groupfu id
Intercept id	1,970	,037
time24 * groupfu id	,037	,004

Unstructured^a

a. Dependent Variable: collimpint.

S-Table 6

MVPA Across 24 Months

```
MIXED mvpaagt WITH time24 groupfu HIE LIE sex_0 age_0c fam3_0 painvas_0c
poshee_0c swesourceNA_0c weartime_within weartime_between bmi_within
bmi_between
  /FIXED=time24 groupfu time24*groupfu HIE LIE sex_0 age_0c fam3_0
painvas_0c poshee_0c swesourceNA_0c weartime_within weartime_between
bmi_within bmi_between | SSTYPE(3)
  /METHOD=REML
  /PRINT=G SOLUTION TESTCOV
  /RANDOM=INTERCEPT | SUBJECT(id) COVTYPE(UN)
  /REPEATED=time24 | SUBJECT(id) COVTYPE(AR1).
```

		Model Dimension ^a		
		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	time24	1		1
	groupfu	1		1
	time24 * groupfu	1		1
	HIE	1		1
	LIE	1		1
	sex_0	1		1
	age_0c	1		1
	fam3_0	1		1
	painvas_0c	1		1
	poshee_0c	1		1
	swesourceNA_0c	1		1
	weartime_within	1		1
	weartime_between	1		1
	bmi_within	1		1
bmi_between	1		1	
Random Effects	Intercept	1	Identity	1
Repeated Effects	time24	3	First-Order Autoregressive	2
Total		20		19

		Model Dimension ^a	
		Subject Variables	Number of Subjects
Fixed Effects	Intercept		
	time24		
	groupfu		
	time24 * groupfu		
	HIE		
	LIE		
	sex_0		
	age_0c		
	fam3_0		
	painvas_0c		
	poshee_0c		
	swesourceNA_0c		
	weartime_within		
	weartime_between		

	bmi_within		
	bmi_between		
Random Effects	Intercept	id	
Repeated Effects	time24	id	218
Total			

a. Dependent Variable: mvpaagt.

Information Criteria^a

-2 Restricted Log Likelihood	3865,21299225
Akaike's Information Criterion (AIC)	3871,21299225
Hurvich and Tsai's Criterion (AICC)	3871,27124468
Bozdogan's Criterion (CAIC)	3886,30504803
Schwarz's Bayesian Criterion (BIC)	3883,30504803

The information criteria are displayed in smaller-is-better form.^a

a. Dependent Variable: mvpaagt.

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	257,695	80,671	<,001
time24	1	99,725	16,280	<,001
groupfu	1	292,987	,025	,874
time24 * groupfu	1	94,449	2,266	,136
HIE	1	202,167	,621	,432
LIE	1	203,090	,502	,480
sex_0	1	202,766	,412	,522
age_0c	1	203,434	10,647	,001
fam3_0	1	206,328	,672	,413
painvas_0c	1	204,219	,325	,570
poshee_0c	1	203,406	,542	,462
swesourceNA_0c	1	206,571	,189	,664
wearime_within	1	201,508	2,616	,107
wearime_between	1	204,983	1,184	,278
bmi_within	1	197,279	,000	,984
bmi_between	1	204,207	7,257	,008

a. Dependent Variable: mvpaagt.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval Lower Bound
Intercept	39,999	4,453	257,695	8,982	<,001	31,229
time24	-,439	,109	99,725	-4,035	<,001	-,654
groupfu	,720	4,545	292,987	,158	,874	-8,226
time24 * groupfu	,232	,154	94,449	1,505	,136	-,074
HIE	-3,486	4,423	202,167	-,788	,432	-12,207
LIE	-3,156	4,455	203,090	-,708	,480	-11,939
sex_0	2,494	3,885	202,766	,642	,522	-5,166
age_0c	-,787	,241	203,434	-3,263	,001	-1,263
fam3_0	4,006	4,889	206,328	,820	,413	-5,632
painvas_0c	,546	,958	204,219	,570	,570	-1,343
poshee_0c	1,719	2,334	203,406	,736	,462	-2,883
swesourceNA_0c	,711	1,635	206,571	,435	,664	-2,513
wearime_within	,020	,012	201,508	1,617	,107	-,004
wearime_between	,021	,019	204,983	1,088	,278	-,017
bmi_within	-,011	,571	197,279	-,020	,984	-1,138

bmi_between	-1,017	,378	204,207	-2,694	,008	-1,761
-------------	--------	------	---------	--------	------	--------

Estimates of Fixed Effects^a

Parameter	95% Confidence Interval	
	Upper Bound	
Intercept	48,769	
time24	-,223	
groupfu	9,665	
time24 * groupfu	,538	
HIE	5,236	
LIE	5,628	
sex_0	10,155	
age_0c	-,311	
fam3_0	13,644	
painvas_0c	2,435	
poshee_0c	6,320	
swesourceNA_0c	3,934	
wearime_within	,043	
wearime_between	,059	
bmi_within	1,116	
bmi_between	-,273	

a. Dependent Variable: mvpaagt.

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error	Wald Z	Sig.	95% Confidence Interval
						Lower Bound
Repeated Measures	AR1 diagonal	169,492	24,343	6,963	<,001	127,908
	AR1 rho	-,121	,175	-,688	,492	-,438
Intercept [subject = id]	Variance	599,157	72,298	8,287	<,001	472,966

Estimates of Covariance Parameters^a

Parameter		95% Confidence Interval
		Upper Bound
Repeated Measures	AR1 diagonal	224,595
	AR1 rho	,224
Intercept [subject = id]	Variance	759,017

a. Dependent Variable: mvpaagt.

Random Effect Covariance Structure (G)^a

Intercept id	
Intercept id	599,157
Identity ^a	

a. Dependent Variable: mvpaagt.

Muscle Strength Training Across 24 Months

```

MIXED muskeltraint WITH time24 groupfu HIE LIE sex_0 age_0c fam3_0
painvas_0c poshee_0c swesourceNA_0c bmi_0c
  /FIXED=time24 groupfu time24*groupfu HIE LIE sex_0 age_0c fam3_0
painvas_0c poshee_0c swesourceNA_0c bmi_0c | SSTYPE(3)
  /METHOD=REML
  /PRINT=G SOLUTION TESTCOV
  /RANDOM=INTERCEPT time24 | SUBJECT(id) COVTYPE(UN)
  /REPEATED=time24 | SUBJECT(id) COVTYPE(AR1).

```

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	time24	1		1
	groupfu	1		1
	time24 * groupfu	1		1
	HIE	1		1
	LIE	1		1
	sex_0	1		1
	age_0c	1		1
	fam3_0	1		1
	painvas_0c	1		1
	poshee_0c	1		1
	swesourceNA_0c	1		1
	bmi_0c	1		1
	Random Effects	Intercept + time24	2	Unstructured
Repeated Effects	time24	5	First-Order Autoregressive	2
Total		20		18

Model Dimension^a

		Subject Variables	Number of Subjects
Fixed Effects	Intercept		
	time24		
	groupfu		
	time24 * groupfu		
	HIE		
	LIE		
	sex_0		
	age_0c		
	fam3_0		
	painvas_0c		
	poshee_0c		
	swesourceNA_0c		
	bmi_0c		
	Random Effects	Intercept + time24	id
Repeated Effects	time24	id	224
Total			

a. Dependent Variable: M0: Muskeltraining pro Tag trunkiert (ka48, ka49, ka50, ka51 aggregiert).

Information Criteria^a

-2 Restricted Log Likelihood	7226,15316005
Akaike's Information Criterion (AIC)	7236,15316005
Hurvich and Tsai's Criterion (AICC)	7236,22723413
Bozdogan's Criterion (CAIC)	7264,67523183
Schwarz's Bayesian Criterion (BIC)	7259,67523183

The information criteria are displayed in smaller-is-better form.^a

a. Dependent Variable: M0: Muskeltraining pro Tag trunkiert (ka48, ka49, ka50, ka51 aggregiert).

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	205,746	47,517	<,001
time24	1	164,775	4,799	,030
groupfu	1	160,192	,664	,416
time24 * groupfu	1	166,001	,174	,677
HIE	1	179,373	,313	,576
LIE	1	183,674	,175	,676
sex_0	1	180,187	,685	,409
age_0c	1	188,552	9,482	,002
fam3_0	1	182,671	,138	,710
painvas_0c	1	184,555	,961	,328
poshee_0c	1	179,329	2,024	,157
swesourceNA_0c	1	195,390	,808	,370
bmi_0c	1	182,976	7,063	,009

a. Dependent Variable: M0: Muskeltraining pro Tag trunkiert (ka48, ka49, ka50, ka51 aggregiert).

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval Lower Bound
Intercept	21,282	3,087	205,746	6,893	<,001	15,195
time24	,230	,105	164,775	2,191	,030	,023
groupfu	2,844	3,489	160,192	,815	,416	-4,048
time24 * groupfu	,063	,152	166,001	,417	,677	-,237
HIE	-1,597	2,852	179,373	-,560	,576	-7,224
LIE	1,210	2,892	183,674	,418	,676	-4,496
sex_0	-2,015	2,435	180,187	-,828	,409	-6,820
age_0c	,489	,159	188,552	3,079	,002	,176
fam3_0	1,188	3,193	182,671	,372	,710	-5,112
painvas_0c	,602	,614	184,555	,981	,328	-,610
poshee_0c	2,121	1,491	179,329	1,423	,157	-,821
swesourceNA_0c	-,962	1,070	195,390	-,899	,370	-3,073
bmi_0c	-,665	,250	182,976	-2,658	,009	-1,158

Estimates of Fixed Effects^a

Parameter	95% Confidence Interval Upper Bound
Intercept	27,369
time24	,438
groupfu	9,735
time24 * groupfu	,364
HIE	4,030
LIE	6,916

sex_0	2,789
age_0c	,802
fam3_0	7,487
painvas_0c	1,814
poshee_0c	5,062
swesourceNA_0c	1,149
bmi_0c	-,171

a. Dependent Variable: M0:
Muskeltraining pro Tag trunkiert (ka48,
ka49, ka50, ka51 aggregiert).

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error	Wald Z	Sig.
Repeated Measures	AR1 diagonal	213,066	16,122	13,216	<,001
	AR1 rho	-,150	,069	-2,168	,030
Intercept + time24 [subject = id]	UN (1,1)	382,362	60,105	6,362	<,001
	UN (2,1)	8,432	2,253	3,743	<,001
	UN (2,2)	,446	,127	3,527	<,001

Estimates of Covariance Parameters^a

Parameter		95% Confidence Interval	
		Lower Bound	Upper Bound
Repeated Measures	AR1 diagonal	183,699	247,128
	AR1 rho	-,281	-,012
Intercept + time24 [subject = id]	UN (1,1)	280,977	520,329
	UN (2,1)	4,016	12,847
	UN (2,2)	,256	,778

a. Dependent Variable: M0: Muskeltraining pro Tag trunkiert (ka48, ka49, ka50, ka51 aggregiert).

Random Effect Covariance Structure (G)^a

	Intercept id	time24 id
Intercept id	382,362	8,432
time24 id	8,432	,446

Unstructured^a

a. Dependent Variable: M0: Muskeltraining pro
Tag trunkiert (ka48, ka49, ka50, ka51
aggregiert).

Action Planning Across 24 Months

```

MIXED acplan WITH time24 groupfu HIE LIE sex_0 age_0c fam3_0 painvas_0c
poshee_0c swesourceNA_0c bmi_0c
  /FIXED=time24 groupfu time24*groupfu HIE LIE sex_0 age_0c fam3_0
painvas_0c poshee_0c swesourceNA_0c bmi_0c | SSTYPE(3)
  /METHOD=REML
  /PRINT=G SOLUTION TESTCOV
  /RANDOM=INTERCEPT time24*groupfu | SUBJECT(id) COVTYPE(UN)
  /REPEATED=time24 | SUBJECT(id) COVTYPE(AR1).

```

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	time24	1		1
	groupfu	1		1
	time24 * groupfu	1		1
	HIE	1		1
	LIE	1		1
	sex_0	1		1
	age_0c	1		1
	fam3_0	1		1
	painvas_0c	1		1
	poshee_0c	1		1
	swesourceNA_0c	1		1
	bmi_0c	1		1
	Random Effects	Intercept + time24 * groupfu	2	Unstructured
Repeated Effects	time24	5	First-Order Autoregressive	2
Total		20		18

Model Dimension^a

		Subject Variables	Number of Subjects
Fixed Effects	Intercept		
	time24		
	groupfu		
	time24 * groupfu		
	HIE		
	LIE		
	sex_0		
	age_0c		
	fam3_0		
	painvas_0c		
	poshee_0c		
	swesourceNA_0c		
	bmi_0c		
	Random Effects	Intercept + time24 * groupfu	id
Repeated Effects	time24	id	224
Total			

a. Dependent Variable: acplan.

Information Criteria^a

-2 Restricted Log Likelihood	3142,11335449
Akaike's Information Criterion (AIC)	3152,11335449
Hurvich and Tsai's Criterion (AICC)	3152,18835449
Bozdogan's Criterion (CAIC)	3180,57377320
Schwarz's Bayesian Criterion (BIC)	3175,57377320

The information criteria are displayed in smaller-is-better form.^a

a. Dependent Variable: acplan.

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	262,262	289,091	<,001
time24	1	248,976	,627	,429
groupfu	1	273,433	6,519	,011
time24 * groupfu	1	245,034	1,418	,235
HIE	1	200,400	2,109	,148
LIE	1	202,951	1,757	,186
sex_0	1	197,077	,023	,879
age_0c	1	210,563	3,628	,058
fam3_0	1	204,325	2,607	,108
painvas_0c	1	208,573	,451	,502
poshee_0c	1	197,307	3,933	,049
swesourceNA_0c	1	216,001	3,933	,049
bmi_0c	1	203,343	4,504	,035

a. Dependent Variable: acplan.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval Lower Bound
Intercept	3,620	,213	262,262	17,003	<,001	3,201
time24	-,006	,007	248,976	-,792	,429	-,021
groupfu	,602	,236	273,433	2,553	,011	,138
time24 * groupfu	,014	,012	245,034	1,191	,235	-,009
HIE	,298	,205	200,400	1,452	,148	-,107
LIE	,276	,208	202,951	1,326	,186	-,134
sex_0	,027	,174	197,077	,152	,879	-,317
age_0c	,022	,011	210,563	1,905	,058	-,001
fam3_0	,376	,233	204,325	1,615	,108	-,083
painvas_0c	,030	,044	208,573	,672	,502	-,058
poshee_0c	,212	,107	197,307	1,983	,049	,001
swesourceNA_0c	-,153	,077	216,001	-1,983	,049	-,306
bmi_0c	-,039	,018	203,343	-2,122	,035	-,075

Estimates of Fixed Effects^a

Parameter	95% Confidence Interval Upper Bound
Intercept	4,039
time24	,009
groupfu	1,067
time24 * groupfu	,036
HIE	,702
LIE	,686
sex_0	,370

age_0c	,044
fam3_0	,835
painvas_0c	,117
poshee_0c	,422
swesourceNA_0c	-,001
bmi_0c	-,003

a. Dependent Variable: acplan.

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error	Wald Z	Sig.
Repeated Measures	AR1 diagonal	1,895	,123	15,457	<,001
	AR1 rho	-,101	,061	-1,649	,099
Intercept + time24 * groupfu [subject = id]	UN (1,1)	1,116	,200	5,584	<,001
	UN (2,1)	,020	,013	1,547	,122
	UN (2,2)	,001	,001	1,405	,160

Estimates of Covariance Parameters^a

Parameter		95% Confidence Interval	
		Lower Bound	Upper Bound
Repeated Measures	AR1 diagonal	1,669	2,151
	AR1 rho	-,218	,020
Intercept + time24 * groupfu [subject = id]	UN (1,1)	,785	1,585
	UN (2,1)	-,005	,046
	UN (2,2)	,000	,006

a. Dependent Variable: acplan.

Random Effect Covariance Structure (G)^a

	Intercept id	time24 * groupfu id
Intercept id	1,116	,020
time24 * groupfu id	,020	,001

Unstructured^a

a. Dependent Variable: acplan.

Coping Planning Across 24 Months

```

MIXED coplan WITH time24 groupfu HIE LIE sex_0 age_0c fam3_0 painvas_0c
poshee_0c swesourceNA_0c bmi_0c
  /FIXED=time24 groupfu time24*groupfu HIE LIE sex_0 age_0c fam3_0
painvas_0c poshee_0c swesourceNA_0c bmi_0c | SSTYPE(3)
  /METHOD=REML
  /PRINT=G SOLUTION TESTCOV
  /RANDOM=INTERCEPT time24*groupfu | SUBJECT(id) COVTYPE(UN)
  /REPEATED=time24 | SUBJECT(id) COVTYPE(AR1).

```

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	time24	1		1
	groupfu	1		1
	time24 * groupfu	1		1
	HIE	1		1
	LIE	1		1
	sex_0	1		1
	age_0c	1		1
	fam3_0	1		1
	painvas_0c	1		1
	poshee_0c	1		1
	swesourceNA_0c	1		1
	bmi_0c	1		1
	Random Effects	Intercept + time24 * groupfu	2	Unstructured
Repeated Effects	time24	5	First-Order Autoregressive	2
Total		20		18

Model Dimension^a

		Subject Variables	Number of Subjects
Fixed Effects	Intercept		
	time24		
	groupfu		
	time24 * groupfu		
	HIE		
	LIE		
	sex_0		
	age_0c		
	fam3_0		
	painvas_0c		
	poshee_0c		
	swesourceNA_0c		
	bmi_0c		
	Random Effects	Intercept + time24 * groupfu	id
Repeated Effects	time24	id	224
Total			

a. Dependent Variable: coplan.

Information Criteria^a

-2 Restricted Log Likelihood	2846,21545935
Akaike's Information Criterion (AIC)	2856,21545935
Hurvich and Tsai's Criterion (AICC)	2856,29045935
Bozdogan's Criterion (CAIC)	2884,67587806
Schwarz's Bayesian Criterion (BIC)	2879,67587806

The information criteria are displayed in smaller-is-better form.^a

a. Dependent Variable: coplan.

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	255,803	280,424	<,001
time24	1	205,821	1,004	,318
groupfu	1	277,482	,152	,697
time24 * groupfu	1	219,382	,073	,788
HIE	1	198,648	,865	,354
LIE	1	202,124	4,992	,027
sex_0	1	198,387	5,154	,024
age_0c	1	206,843	23,946	<,001
fam3_0	1	195,942	,263	,609
painvas_0c	1	205,014	5,458	,020
poshee_0c	1	198,462	10,197	,002
swesourceNA_0c	1	213,752	1,633	,203
bmi_0c	1	195,713	1,602	,207

a. Dependent Variable: coplan.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval Lower Bound
Intercept	3,224	,193	255,803	16,746	<,001	2,845
time24	,007	,007	205,821	1,002	,318	-,007
groupfu	,082	,210	277,482	,390	,697	-,332
time24 * groupfu	,003	,010	219,382	,269	,788	-,017
HIE	,175	,188	198,648	,930	,354	-,196
LIE	,425	,190	202,124	2,234	,027	,050
sex_0	-,364	,160	198,387	-2,270	,024	-,679
age_0c	,051	,010	206,843	4,893	<,001	,031
fam3_0	,108	,210	195,942	,512	,609	-,307
painvas_0c	,095	,041	205,014	2,336	,020	,015
poshee_0c	,313	,098	198,462	3,193	,002	,120
swesourceNA_0c	-,090	,071	213,752	-1,278	,203	-,230
bmi_0c	-,021	,016	195,713	-1,266	,207	-,053

Estimates of Fixed Effects^a

Parameter	95% Confidence Interval Upper Bound
Intercept	3,603
time24	,020
groupfu	,496
time24 * groupfu	,022
HIE	,545
LIE	,800
sex_0	-,048

age_0c	,072
fam3_0	,523
painvas_0c	,175
poshee_0c	,507
swesourceNA_0c	,049
bmi_0c	,012

a. Dependent Variable: coplan.

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error	Wald Z	Sig.
Repeated Measures	AR1 diagonal	1,382	,109	12,722	<,001
	AR1 rho	,108	,069	1,556	,120
Intercept + time24 * groupfu [subject = id]	UN (1,1)	,799	,164	4,870	<,001
	UN (2,1)	,002	,010	,175	,861
	UN (2,2)	,000	,001	,177	,860

Estimates of Covariance Parameters^a

Parameter		95% Confidence Interval	
		Lower Bound	Upper Bound
Repeated Measures	AR1 diagonal	1,185	1,612
	AR1 rho	-,029	,241
Intercept + time24 * groupfu [subject = id]	UN (1,1)	,534	1,195
	UN (2,1)	-,018	,022
	UN (2,2)	2,099E-9	9,269

a. Dependent Variable: coplan.

Random Effect Covariance Structure (G)^a

	Intercept id	time24 * groupfu id
Intercept id	,799	,002
time24 * groupfu id	,002	,000

Unstructured^a

a. Dependent Variable: coplan.

Maintenance Self-Efficacy Across 24 Months

```

MIXED aufswe WITH time24 groupfu HIE LI sex_0 age_0c fam3_0 painvas_0c
poshee_0c swesourceNA_0c bmi_0c
  /FIXED=time24 groupfu time24*groupfu HIE LIE sex_0 age_0c fam3_0
painvas_0c poshee_0c swesourceNA_0c bmi_0c | SSTYPE(3)
  /METHOD=REML
  /PRINT=G SOLUTION TESTCOV
  /RANDOM=INTERCEPT time24*groupfu | SUBJECT(id) COVTYPE(UN)
  /REPEATED=time24 | SUBJECT(id) COVTYPE(AR1).

```

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	time24	1		1
	groupfu	1		1
	time24 * groupfu	1		1
	HIE	1		1
	LIE	1		1
	sex_0	1		1
	age_0c	1		1
	fam3_0	1		1
	painvas_0c	1		1
	poshee_0c	1		1
	swesourceNA_0c	1		1
	bmi_0c	1		1
Random Effects	Intercept + time24 * groupfu	2	Unstructured	3
Repeated Effects	time24	5	First-Order Autoregressive	2
Total		20		18

Model Dimension^a

		Subject Variables	Number of Subjects
Fixed Effects	Intercept		
	time24		
	groupfu		
	time24 * groupfu		
	HIE		
	LIE		
	sex_0		
	age_0c		
	fam3_0		
	painvas_0c		
	poshee_0c		
	swesourceNA_0c		
	bmi_0c		
Random Effects	Intercept + time24 * groupfu	id	
Repeated Effects	time24	id	224
Total			

a. Dependent Variable: aufswe.

Information Criteria^a

-2 Restricted Log Likelihood	2500,97494948
Akaike's Information Criterion (AIC)	2510,97494948
Hurvich and Tsai's Criterion (AICC)	2511,04929893
Bozdogan's Criterion (CAIC)	2539,47860503
Schwarz's Bayesian Criterion (BIC)	2534,47860503

The information criteria are displayed in smaller-is-better form.^a

a. Dependent Variable: aufsw.

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	256,121	992,090	<,001
time24	1	228,819	11,375	<,001
groupfu	1	299,648	,370	,544
time24 * groupfu	1	289,084	3,964	,047
HIE	1	183,726	,022	,883
LIE	1	188,320	,003	,955
sex_0	1	186,910	,002	,960
age_0c	1	195,711	,568	,452
fam3_0	1	173,737	,214	,644
painvas_0c	1	187,320	,153	,696
poshee_0c	1	187,346	6,655	,011
swesourceNA_0c	1	215,824	,936	,334
bmi_0c	1	165,281	4,152	,043

a. Dependent Variable: aufsw.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval Lower Bound
Intercept	4,097	,130	256,121	31,497	<,001	3,841
time24	-,018	,005	228,819	-3,373	<,001	-,028
groupfu	,090	,147	299,648	,608	,544	-,200
time24 * groupfu	,016	,008	289,084	1,991	,047	,000
HIE	-,018	,123	183,726	-,147	,883	-,260
LIE	-,007	,125	188,320	-,057	,955	-,253
sex_0	,005	,105	186,910	,050	,960	-,201
age_0c	,005	,007	195,711	,754	,452	-,008
fam3_0	,064	,138	173,737	,462	,644	-,209
painvas_0c	-,010	,027	187,320	-,391	,696	-,063
poshee_0c	,165	,064	187,346	2,580	,011	,039
swesourceNA_0c	-,046	,047	215,824	-,968	,334	-,139
bmi_0c	-,022	,011	165,281	-2,038	,043	-,043

Estimates of Fixed Effects^a

Parameter	95% Confidence Interval Upper Bound
Intercept	4,353
time24	-,007
groupfu	,379
time24 * groupfu	,032
HIE	,224
LIE	,239
sex_0	,212
age_0c	,019

fam3_0	,336
painvas_0c	,042
poshee_0c	,292
swesourceNA_0c	,047
bmi_0c	-,001

a. Dependent Variable: aufsw.

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error	Wald Z	Sig.
Repeated Measures	AR1 diagonal	,917	,065	14,188	<,001
	AR1 rho	-,020	,063	-,318	,750
Intercept + time24 * groupfu [subject = id]	UN (1,1)	,280	,082	3,404	<,001
	UN (2,1)	,004	,005	,726	,468
	UN (2,2)	,001	,000	1,144	,253

Estimates of Covariance Parameters^a

Parameter		95% Confidence Interval	
		Lower Bound	Upper Bound
Repeated Measures	AR1 diagonal	,799	1,053
	AR1 rho	-,142	,103
Intercept + time24 * groupfu [subject = id]	UN (1,1)	,157	,498
	UN (2,1)	-,006	,014
	UN (2,2)	9,566E-5	,003

a. Dependent Variable: aufsw.

Random Effect Covariance Structure (G)^a

	Intercept id	time24 * groupfu id
Intercept id	,280	,004
time24 * groupfu id	,004	,001

Unstructured^a

a. Dependent Variable: aufsw.

Recovery Self-Efficacy Across 24 Months

```

MIXED wieswe WITH time24 groupfu HIE LIE sex_0 age_0c fam3_0 painvas_0c
poshee_0c swesourceNA_0c bmi_0c
  /FIXED=time24 groupfu time24*groupfu HIE LIE sex_0 age_0c fam3_0 painvas_0c
poshee_0c swesourceNA_0c bmi_0c | SSTYPE(3)
  /METHOD=REML
  /PRINT=G SOLUTION TESTCOV
  /RANDOM=INTERCEPT time24*groupfu | SUBJECT(id) COVTYPE(UN)
  /REPEATED=time24 | SUBJECT(id) COVTYPE(AR1).

```

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	time24	1		1
	groupfu	1		1
	time24 * groupfu	1		1
	HIE	1		1
	LIE	1		1
	sex_0	1		1
	age_0c	1		1
	fam3_0	1		1
	painvas_0c	1		1
	poshee_0c	1		1
	swesourceNA_0c	1		1
	bmi_0c	1		1
	Random Effects	Intercept + time24 * groupfu	2	Unstructured
Repeated Effects	time24	5	First-Order Autoregressive	2
Total		20		18

Model Dimension^a

		Subject Variables	Number of Subjects
Fixed Effects	Intercept		
	time24		
	groupfu		
	time24 * groupfu		
	HIE		
	LIE		
	sex_0		
	age_0c		
	fam3_0		
	painvas_0c		
	poshee_0c		
	swesourceNA_0c		
	bmi_0c		
	Random Effects	Intercept + time24 * groupfu	id
Repeated Effects	time24	id	223
Total			

a. Dependent Variable: wieswe.

Information Criteria^a

-2 Restricted Log Likelihood	2273,03235608
Akaike's Information Criterion (AIC)	2283,03235608
Hurvich and Tsai's Criterion (AICC)	2283,10707588
Bozdogan's Criterion (CAIC)	2311,51135066
Schwarz's Bayesian Criterion (BIC)	2306,51135066

The information criteria are displayed in smaller-is-better form.^a

a. Dependent Variable: wieswe.

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	276,414	1340,517	<,001
time24	1	211,235	18,955	<,001
groupfu	1	287,253	1,403	,237
time24 * groupfu	1	269,677	5,768	,017
HIE	1	199,433	,777	,379
LIE	1	201,368	,022	,883
sex_0	1	195,882	,161	,689
age_0c	1	208,523	3,846	,051
fam3_0	1	199,971	,745	,389
painvas_0c	1	206,216	,160	,690
poshee_0c	1	196,636	13,335	<,001
swesourceNA_0c	1	216,818	11,192	<,001
bmi_0c	1	197,835	12,862	<,001

a. Dependent Variable: wieswe.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval Lower Bound
Intercept	4,549	,124	276,414	36,613	<,001	4,304
time24	-,020	,005	211,235	-4,354	<,001	-,029
groupfu	,166	,140	287,253	1,185	,237	-,110
time24 * groupfu	,017	,007	269,677	2,402	,017	,003
HIE	,103	,117	199,433	,882	,379	-,128
LIE	,018	,119	201,368	,148	,883	-,217
sex_0	,040	,100	195,882	,401	,689	-,156
age_0c	-,013	,007	208,523	-1,961	,051	-,026
fam3_0	,115	,133	199,971	,863	,389	-,148
painvas_0c	,010	,025	206,216	,400	,690	-,040
poshee_0c	,223	,061	196,636	3,652	<,001	,103
swesourceNA_0c	-,148	,044	216,818	-3,346	<,001	-,234
bmi_0c	-,038	,010	197,835	-3,586	<,001	-,058

Estimates of Fixed Effects^a

Parameter	95% Confidence Interval Upper Bound
Intercept	4,794
time24	-,011
groupfu	,442
time24 * groupfu	,031
HIE	,334
LIE	,252
sex_0	,236
age_0c	6,790E-5

fam3_0	,378
painvas_0c	,060
poshee_0c	,344
swesourceNA_0c	-,061
bmi_0c	-,017

a. Dependent Variable: wieswe.

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error	Wald Z	Sig.
Repeated Measures	AR1 diagonal	,667	,049	13,757	<,001
	AR1 rho	,005	,066	,083	,934
Intercept + time24 * groupfu [subject = id]	UN (1,1)	,350	,074	4,704	<,001
	UN (2,1)	,008	,004	1,861	,063
	UN (2,2)	,001	,000	1,494	,135

Estimates of Covariance Parameters^a

Parameter		95% Confidence Interval	
		Lower Bound	Upper Bound
Repeated Measures	AR1 diagonal	,579	,770
	AR1 rho	-,123	,133
Intercept + time24 * groupfu [subject = id]	UN (1,1)	,231	,531
	UN (2,1)	,000	,017
	UN (2,2)	,000	,002

a. Dependent Variable: wieswe.

Random Effect Covariance Structure (G)^a

	Intercept id	time24 * groupfu id
Intercept id	,350	,008
time24 * groupfu id	,008	,001

Unstructured^a

a. Dependent Variable: wieswe.

Action Control Across 24 Months

```

MIXED hk WITH time24 groupfu HIE LIE sex_0 age_0c fam3_0 painvas_0c poshee_0c
swesourceNA_0c bmi_0c
  /FIXED=time24 groupfu time24*groupfu HIE LIE sex_0 age_0c fam3_0 painvas_0c
poshee_0c swesourceNA_0c bmi_0c | SSTYPE(3)
  /METHOD=REML
  /PRINT=G SOLUTION TESTCOV
  /RANDOM=INTERCEPT time24*groupfu | SUBJECT(id) COVTYPE(UN)
  /REPEATED=time24 | SUBJECT(id) COVTYPE(AR1).

```

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	time24	1		1
	groupfu	1		1
	time24 * groupfu	1		1
	HIE	1		1
	LIE	1		1
	sex_0	1		1
	age_0c	1		1
	fam3_0	1		1
	painvas_0c	1		1
	poshee_0c	1		1
	swesourceNA_0c	1		1
	bmi_0c	1		1
	Random Effects	Intercept + time24 * groupfu	2	Unstructured
Repeated Effects	time24	5	First-Order Autoregressive	2
Total		20		18

Model Dimension^a

		Subject Variables	Number of Subjects
Fixed Effects	Intercept		
	time24		
	groupfu		
	time24 * groupfu		
	HIE		
	LIE		
	sex_0		
	age_0c		
	fam3_0		
	painvas_0c		
	poshee_0c		
	swesourceNA_0c		
	bmi_0c		
	Random Effects	Intercept + time24 * groupfu	id
Repeated Effects	time24	id	224
Total			

a. Dependent Variable: hk.

Information Criteria^a

-2 Restricted Log Likelihood	2605,99120713
Akaike's Information Criterion (AIC)	2615,99120713
Hurvich and Tsai's Criterion (AICC)	2616,06583399
Bozdogan's Criterion (CAIC)	2644,47637837
Schwarz's Bayesian Criterion (BIC)	2639,47637837

The information criteria are displayed in smaller-is-better form.^a

a. Dependent Variable: hk.

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	240,037	353,589	<,001
time24	1	221,410	,000	,988
groupfu	1	258,332	1,196	,275
time24 * groupfu	1	196,848	1,559	,213
HIE	1	192,169	3,391	,067
LIE	1	195,357	6,315	,013
sex_0	1	190,226	,746	,389
age_0c	1	200,931	23,848	<,001
fam3_0	1	193,562	,844	,359
painvas_0c	1	199,564	,918	,339
poshee_0c	1	190,157	4,749	,031
swesourceNA_0c	1	204,472	3,925	,049
bmi_0c	1	196,133	,413	,521

a. Dependent Variable: hk.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval Lower Bound
Intercept	3,214	,171	240,037	18,804	<,001	2,877
time24	7,741E-5	,005	221,410	,015	,988	-,010
groupfu	,200	,183	258,332	1,094	,275	-,160
time24 * groupfu	,010	,008	196,848	1,248	,213	-,006
HIE	,313	,170	192,169	1,841	,067	-,022
LIE	,433	,172	195,357	2,513	,013	,093
sex_0	-,125	,145	190,226	-,864	,389	-,411
age_0c	,046	,009	200,931	4,883	<,001	,028
fam3_0	,176	,191	193,562	,919	,359	-,201
painvas_0c	,035	,037	199,564	,958	,339	-,037
poshee_0c	,193	,089	190,157	2,179	,031	,018
swesourceNA_0c	-,126	,064	204,472	-1,981	,049	-,252
bmi_0c	-,010	,015	196,133	-,643	,521	-,039

Estimates of Fixed Effects^a

Parameter	95% Confidence Interval Upper Bound
Intercept	3,551
time24	,010
groupfu	,561
time24 * groupfu	,027
HIE	,649
LIE	,773
sex_0	,161
age_0c	,065

fam3_0	,553
painvas_0c	,108
poshee_0c	,368
swesourceNA_0c	-,001
bmi_0c	,020

a. Dependent Variable: hk.

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error	Wald Z	Sig.
Repeated Measures	AR1 diagonal	,877	,060	14,497	<,001
	AR1 rho	-,022	,065	-,332	,740
Intercept + time24 * groupfu [subject = id]	UN (1,1)	,812	,130	6,267	<,001
	UN (2,1)	,011	,008	1,393	,164
	UN (2,2)	,001	,001	1,729	,084

Estimates of Covariance Parameters^a

Parameter		95% Confidence Interval	
		Lower Bound	Upper Bound
Repeated Measures	AR1 diagonal	,766	1,004
	AR1 rho	-,149	,106
Intercept + time24 * groupfu [subject = id]	UN (1,1)	,594	1,110
	UN (2,1)	-,004	,026
	UN (2,2)	,000	,003

a. Dependent Variable: hk.

Random Effect Covariance Structure (G)^a

	Intercept id	time24 * groupfu id
Intercept id	,812	,011
time24 * groupfu id	,011	,001

Unstructured^a

a. Dependent Variable: hk.

Collaborative Planning Across 24 Months

```
MIXED collimpint WITH time24 groupfu HIE LIE sex_0 age_0c fam3_0
painvas_0c poshee_0c swesourceNA_0c bmi_0c
  /FIXED=time24 groupfu time24*groupfu HIE LIE sex_0 age_0c fam3_0
painvas_0c poshee_0c swesourceNA_0c bmi_0c | SSTYPE(3)
  /METHOD=REML
  /PRINT=G SOLUTION TESTCOV
  /RANDOM=INTERCEPT time24*groupfu | SUBJECT(id) COVTYPE(UN)
  /REPEATED=time24 | SUBJECT(id) COVTYPE(AR1).
```

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	time24	1		1
	groupfu	1		1
	time24 * groupfu	1		1
	HIE	1		1
	LIE	1		1
	sex_0	1		1
	age_0c	1		1
	fam3_0	1		1
	painvas_0c	1		1
	poshee_0c	1		1
	swesourceNA_0c	1		1
	bmi_0c	1		1
	Random Effects	Intercept + time24 * groupfu	2	Unstructured
Repeated Effects	time24	5	First-Order Autoregressive	2
Total		20		18

Model Dimension^a

		Subject Variables	Number of Subjects
Fixed Effects	Intercept		
	time24		
	groupfu		
	time24 * groupfu		
	HIE		
	LIE		
	sex_0		
	age_0c		
	fam3_0		
	painvas_0c		
	poshee_0c		
	swesourceNA_0c		
	bmi_0c		
	Random Effects	Intercept + time24 * groupfu	id
Repeated Effects	time24	id	171
Total			

a. Dependent Variable: collimpint.

Information Criteria^a

-2 Restricted Log Likelihood	1917,27680285
Akaike's Information Criterion (AIC)	1927,27680285
Hurvich and Tsai's Criterion (AICC)	1927,41410262
Bozdogan's Criterion (CAIC)	1952,74465170
Schwarz's Bayesian Criterion (BIC)	1947,74465170

The information criteria are displayed in smaller-is-better form.^a

a. Dependent Variable: collimpint.

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	199,011	89,059	<,001
time24	1	137,709	,754	,387
groupfu	1	196,972	1,428	,234
time24 * groupfu	1	149,253	,028	,868
HIE	1	145,028	1,541	,216
LIE	1	156,981	1,096	,297
sex_0	1	149,686	,305	,582
age_0c	1	157,042	,052	,820
fam3_0	1	153,777	,248	,619
painvas_0c	1	156,639	,116	,734
poshee_0c	1	147,780	1,635	,203
swesourceNA_0c	1	169,248	2,025	,157
bmi_0c	1	145,315	2,216	,139

a. Dependent Variable: collimpint.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval Lower Bound
Intercept	3,094	,328	199,011	9,437	<,001	2,448
time24	,010	,012	137,709	,869	,387	-,013
groupfu	,438	,367	196,972	1,195	,234	-,285
time24 * groupfu	,003	,019	149,253	,167	,868	-,034
HIE	,388	,313	145,028	1,241	,216	-,230
LIE	,343	,327	156,981	1,047	,297	-,304
sex_0	-,152	,275	149,686	-,552	,582	-,696
age_0c	-,004	,018	157,042	-,228	,820	-,040
fam3_0	-,188	,378	153,777	-,498	,619	-,935
painvas_0c	,024	,071	156,639	,341	,734	-,116
poshee_0c	,211	,165	147,780	1,279	,203	-,115
swesourceNA_0c	-,184	,129	169,248	-1,423	,157	-,438
bmi_0c	-,041	,028	145,315	-1,488	,139	-,095

Estimates of Fixed Effects^a

Parameter	95% Confidence Interval Upper Bound
Intercept	3,741
time24	,033
groupfu	1,161
time24 * groupfu	,040
HIE	1,006
LIE	,989
sex_0	,392
age_0c	,031

fam3_0	,558
painvas_0c	,164
poshee_0c	,538
swesourceNA_0c	,071
bmi_0c	,013

a. Dependent Variable: collimpint.

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error	Wald Z	Sig.
Repeated Measures	AR1 diagonal	2,370	,218	10,856	<,001
	AR1 rho	-,182	,100	-1,813	,070
Intercept + time24 * groupfu [subject = id]	UN (1,1)	1,929	,397	4,859	<,001
	UN (2,1)	,032	,027	1,156	,248
	UN (2,2)	,003	,002	1,455	,146

Estimates of Covariance Parameters^a

Parameter		95% Confidence Interval	
		Lower Bound	Upper Bound
Repeated Measures	AR1 diagonal	1,978	2,839
	AR1 rho	-,369	,019
Intercept + time24 * groupfu [subject = id]	UN (1,1)	1,289	2,888
	UN (2,1)	-,022	,085
	UN (2,2)	,001	,012

a. Dependent Variable: collimpint.

Random Effect Covariance Structure (G)^a

	Intercept id	time24 * groupfu id
Intercept id	1,929	,032
time24 * groupfu id	,032	,003

Unstructured^a

a. Dependent Variable: collimpint.