

Mean of age

1

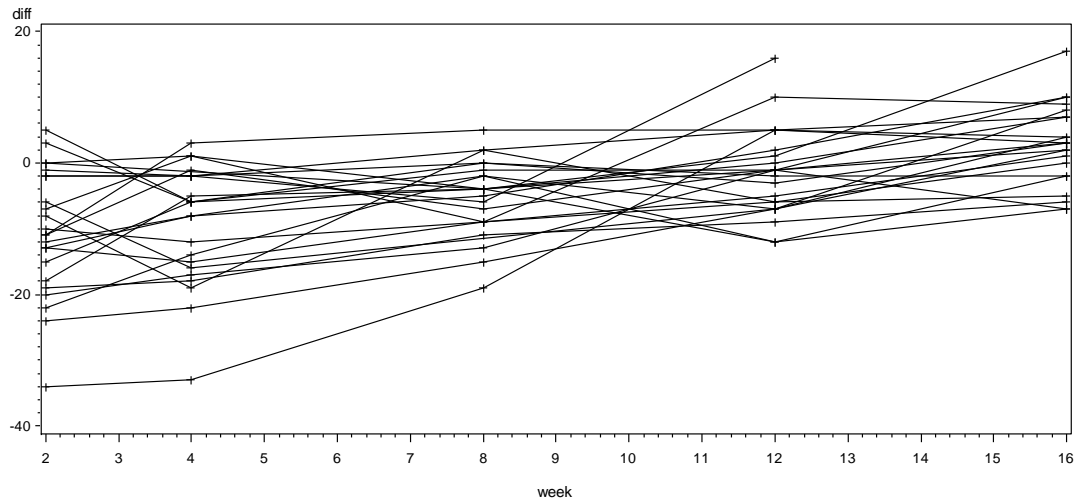
The MEANS Procedure

Analysis Variable : age

N	Mean	Std Dev	Minimum	Maximum
109	55.5321101	12.1255537	26.0000000	83.0000000

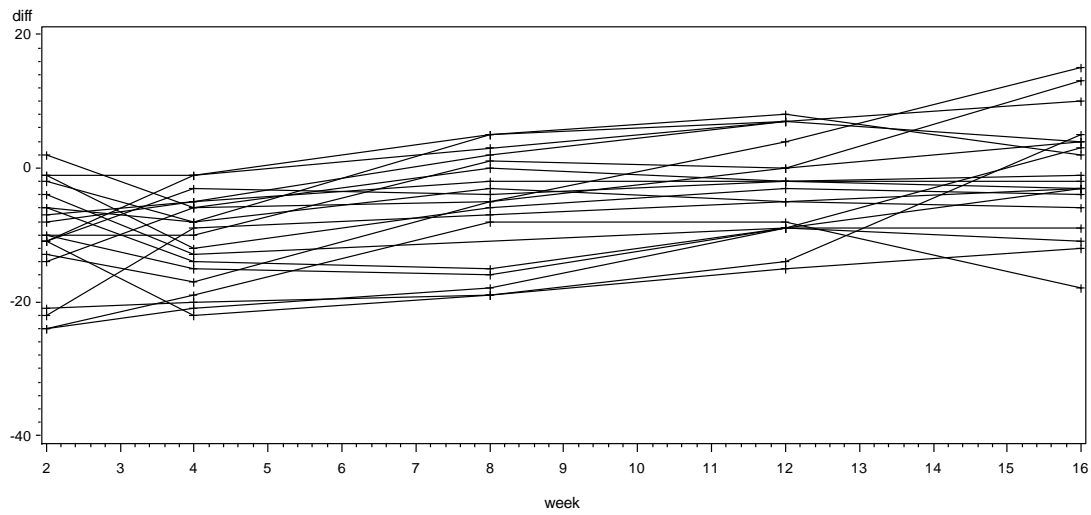
Subject-specific observed profiles of change from baseline vs week

trt=10000U



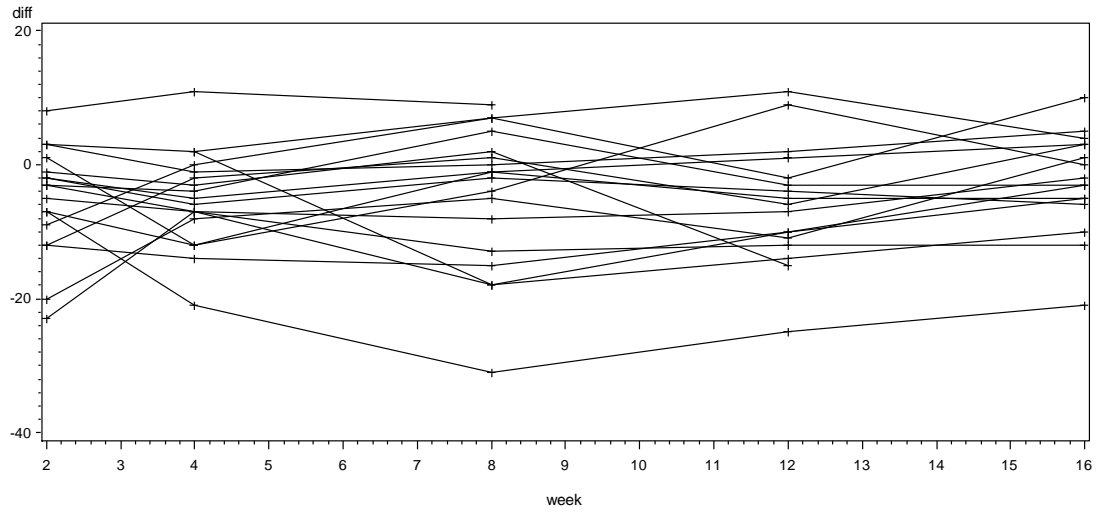
Subject-specific observed profiles of change from baseline vs week

trt=5000U

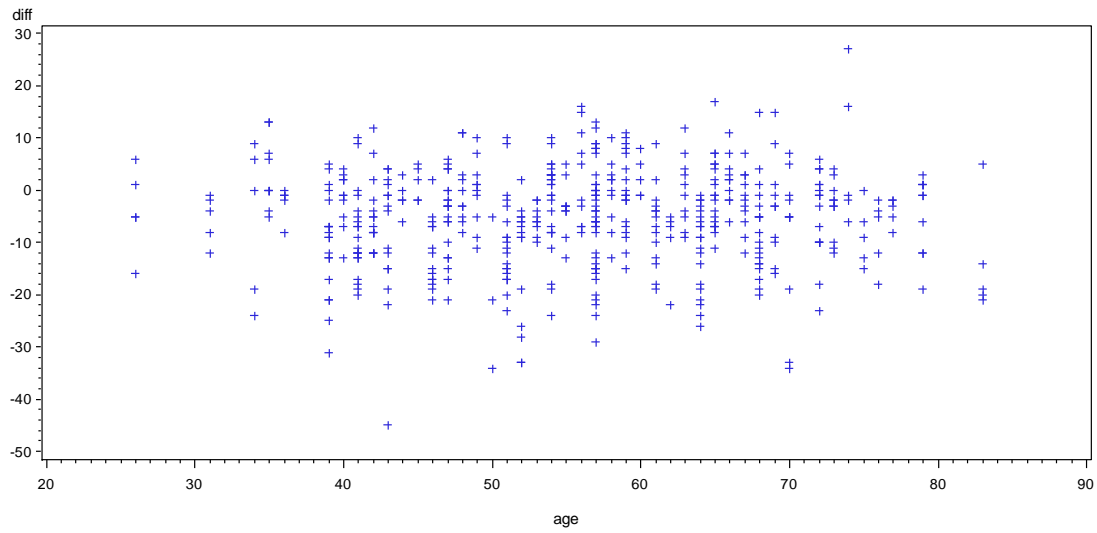


### Subject-specific observed profiles of change from baseline vs week

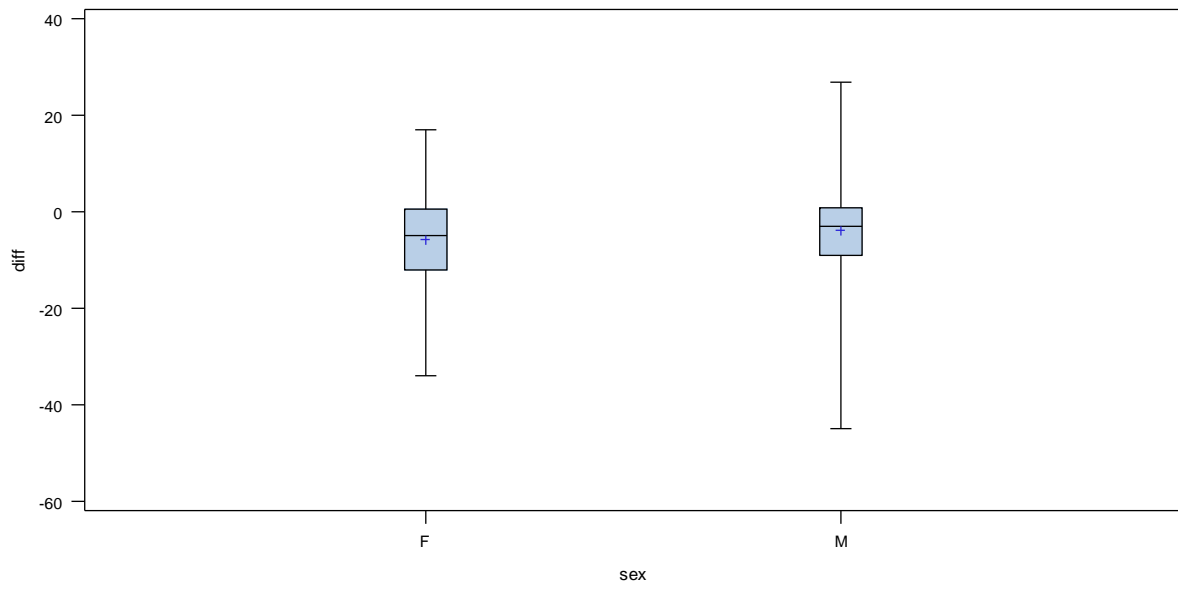
trt=Placebo



### Raw Data: Change scores vs Age



Boxplots of raw data (change scores) by gender



Should say  
"Unstructured"

Model M1: Full model  
Unspecified var-cov structure

2

The Mixed Procedure

Model Information

Data Set	WORK.THREE
Dependent Variable	diff
Covariance Structures	Variance Components, Unstructured
Subject Effects	site, id(site)
Estimation Method	REML
Residual Variance Method	None
Fixed Effects SE Method	Kenward-Roger
Degrees of Freedom Method	Kenward-Roger

Class Level Information

Class	Levels	Values
id	19	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
trt	3	10000U 5000U Placebo
site	9	1 2 3 4 5 6 7 8 9
sex	2	F M
week	5	2 4 8 12 16
measocc	5	2 3 4 5 6

Dimensions

Covariance Parameters	16
Columns in X	98
Columns in Z Per Subject	1
Subjects	9
Max Obs Per Subject	95

Number of Observations

Number of Observations Read	545
Number of Observations Used	522
Number of Observations Not Used	23

Iteration History

Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	3600.93973714	
1	2	3396.97724037	0.00001347
2	1	3396.95992468	0.00000001
3	1	3396.95990814	0.00000000

Model M1: Full model  
 Unspecified var-cov structure

3

The Mixed Procedure

Convergence criteria met.

Estimated R Matrix for id(site) 1 1

Row	Col1	Col2	Col3	Col4	Col5
1	70.2952	36.4542	31.6631	29.4481	22.2192
2	36.4542	61.6512	46.9627	29.1634	21.9909
3	31.6631	46.9627	77.3702	45.2065	28.7920
4	29.4481	29.1634	45.2065	69.3619	50.6900
5	22.2192	21.9909	28.7920	50.6900	78.4851

Estimated R Correlation Matrix for id(site) 1 1

Row	Col1	Col2	Col3	Col4	Col5
1	1.0000	0.5538	0.4293	0.4217	0.2991
2	0.5538	1.0000	0.6800	0.4460	0.3161
3	0.4293	0.6800	1.0000	0.6171	0.3695
4	0.4217	0.4460	0.6171	1.0000	0.6870
5	0.2991	0.3161	0.3695	0.6870	1.0000

Covariance Parameter Estimates

Cov Parm	Subject	Estimate	Standard Error	Z Value	Pr > Z
Intercept	site	0.06721	1.9983	0.03	0.4866
UN(1,1)	id(site)	70.2952	10.6244	6.62	<.0001
UN(2,1)	id(site)	36.4542	8.3284	4.38	<.0001
UN(2,2)	id(site)	61.6512	9.5236	6.47	<.0001
UN(3,1)	id(site)	31.6631	8.8164	3.59	0.0003
UN(3,2)	id(site)	46.9627	8.7722	5.35	<.0001
UN(3,3)	id(site)	77.3702	11.1893	6.91	<.0001
UN(4,1)	id(site)	29.4481	8.2834	3.56	0.0004
UN(4,2)	id(site)	29.1634	7.7951	3.74	0.0002
UN(4,3)	id(site)	45.2065	8.9780	5.04	<.0001
UN(4,4)	id(site)	69.3619	10.2367	6.78	<.0001
UN(5,1)	id(site)	22.2192	8.1412	2.73	0.0063
UN(5,2)	id(site)	21.9909	7.6484	2.88	0.0040
UN(5,3)	id(site)	28.7920	8.5322	3.37	0.0007
UN(5,4)	id(site)	50.6900	9.1842	5.52	<.0001
UN(5,5)	id(site)	78.4851	11.4405	6.86	<.0001

Model M1: Full model  
Unspecified var-cov structure

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The Mixed Procedure

Fit Statistics

-2 Res Log Likelihood	3397.0
AIC (smaller is better)	3429.0
AICC (smaller is better)	3430.1
BIC (smaller is better)	3432.1

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
agec	1	97	1.72	0.1922
sex	1	95.6	1.09	0.3001
agec*sex	1	93.9	2.53	0.1149
trt	2	93.9	5.06	0.0082
agec*trt	2	94.8	2.19	0.1174
week	4	94.1	19.52	<.0001
agec*week	4	90	2.44	0.0526
trt*week	8	131	2.24	0.0283
agec*trt*week	8	127	1.18	0.3192
trt*sex	2	96.9	0.59	0.5551
sex*week	4	93.9	0.60	0.6642
trt*sex*week	8	131	0.89	0.5293

Least Squares Means

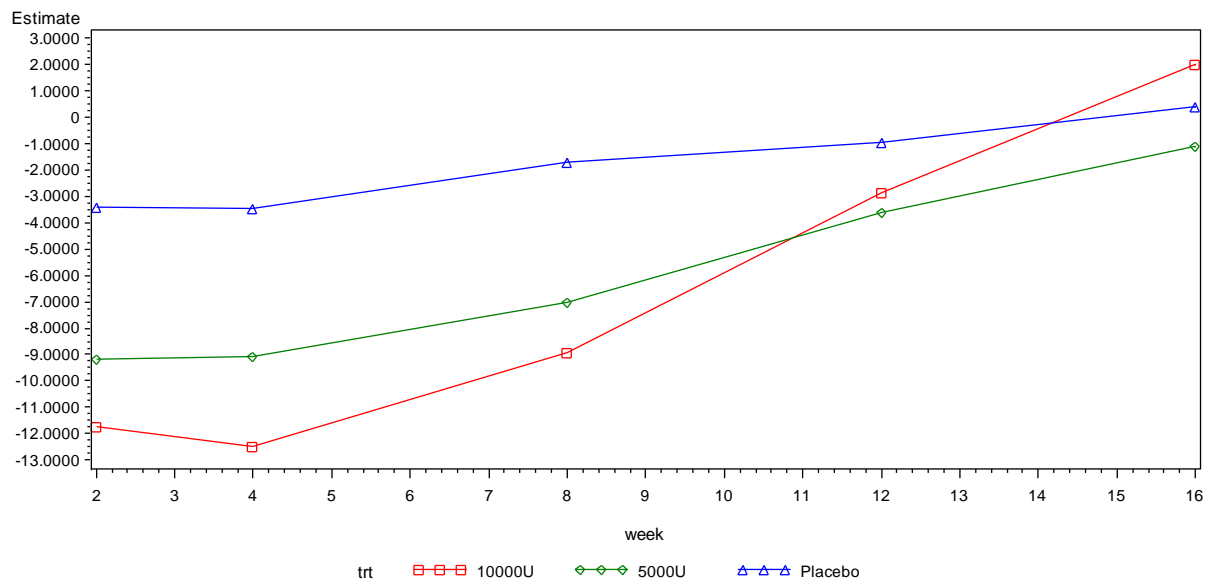
Effect	trt	week	Estimate	Standard Error	DF	t Value	Pr >  t
trt	10000U		-6.7958	1.3034	51.5	-5.21	<.0001
trt	5000U		-5.9849	1.1002	41.4	-5.44	<.0001
trt	Placebo		-1.8226	1.1554	49.6	-1.58	0.1210
week		2	-8.0900	0.9091	21.2	-8.90	<.0001
week		4	-8.3454	0.8328	16.7	-10.02	<.0001
week		8	-5.8699	0.9368	20.9	-6.27	<.0001
week		12	-2.4661	0.9097	19.5	-2.71	0.0136
week		16	0.4325	0.9507	18.6	0.45	0.6544
trt*week	10000U	2	-11.7219	1.6984	82.3	-6.90	<.0001
trt*week	10000U	4	-12.5073	1.5443	79.7	-8.10	<.0001
trt*week	10000U	8	-8.9155	1.7655	77.3	-5.05	<.0001
trt*week	10000U	12	-2.8369	1.7705	84	-1.60	0.1128
trt*week	10000U	16	2.0028	1.7969	63.8	1.11	0.2692
trt*week	5000U	2	-9.1533	1.4431	74.1	-6.34	<.0001
trt*week	5000U	4	-9.0616	1.3388	73.4	-6.77	<.0001
trt*week	5000U	8	-7.0119	1.4961	68.3	-4.69	<.0001
trt*week	5000U	12	-3.6045	1.4085	63.9	-2.56	0.0129
trt*week	5000U	16	-1.0935	1.5078	56.6	-0.73	0.4713
trt*week	Placebo	2	-3.3949	1.5324	82.2	-2.22	0.0295

The Mixed Procedure

Least Squares Means

Effect	trt	week	Estimate	Standard Error	DF	t Value	Pr >  t
trt*week	Placebo	4	-3.4672	1.3901	79.8	-2.49	0.0147
trt*week	Placebo	8	-1.6822	1.5529	73.6	-1.08	0.2822
trt*week	Placebo	12	-0.9568	1.4820	71.5	-0.65	0.5206
trt*week	Placebo	16	0.3881	1.5787	62.3	0.25	0.8066

Group by time profile plots for model M1



Obs	Descr	Value
1	AIC (smaller is better)	3429.0
2	AIC (smaller is better)	3420.8
3	AIC (smaller is better)	3415.2
4	AIC (smaller is better)	3413.8
5	AIC (smaller is better)	3421.3
6	AIC (smaller is better)	3414.0
7	AIC (smaller is better)	3419.3
8	AIC (smaller is better)	3415.8
9	AIC (smaller is better)	3413.9
10	AIC (smaller is better)	3466.5
11	AIC (smaller is better)	3460.6
12	AIC (smaller is better)	3423.6
13	AIC (smaller is better)	3458.0



## The Mixed Procedure

Convergence criteria met.

## Covariance Parameter Estimates

Cov Parm	Subject	Estimate	Standard Error	Z Value	Pr Z
Intercept	site	4.53E-17	.	.	.
AR(1)	id(site)	0.6404	0.03527	18.16	<.0001
Residual		72.0612	6.3868	11.28	<.0001

## Fit Statistics

-2 Res Log Likelihood	3409.8
AIC (smaller is better)	3413.8
AICC (smaller is better)	3413.8
BIC (smaller is better)	3414.2

## Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
age	1	468	1.75	0.1870
sex	1	468	1.79	0.1814
age*sex	1	468	2.57	0.1096
trt	2	468	1.85	0.1587
age*trt	2	468	2.26	0.1055
week	4	468	1.46	0.2138
age*week	4	468	2.38	0.0505
trt*week	8	468	1.37	0.2080
age*trt*week	8	468	1.17	0.3169
trt*sex	2	468	0.66	0.5190
sex*week	4	468	0.61	0.6558
trt*sex*week	8	468	0.74	0.6546

## The Mixed Procedure

Convergence criteria met.

## Covariance Parameter Estimates

Cov Parm	Subject	Estimate	Standard Error	Z Value	Pr > Z
AR(1)	id(site)	0.6404	0.03527	18.16	<.0001
Residual		72.0613	6.3868	11.28	<.0001

## Fit Statistics

-2 Res Log Likelihood	3409.8
AIC (smaller is better)	3413.8
AICC (smaller is better)	3413.8
BIC (smaller is better)	3419.1

## Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
age	1	98	1.75	0.1894
sex	1	98	1.79	0.1838
age*sex	1	98	2.57	0.1121
trt	2	98	1.85	0.1630
age*trt	2	98	2.26	0.1098
week	4	378	1.46	0.2142
age*week	4	378	2.38	0.0509
trt*week	8	378	1.37	0.2088
age*trt*week	8	378	1.17	0.3175
trt*sex	2	98	0.66	0.5208
sex*week	4	378	0.61	0.6558
trt*sex*week	8	378	0.74	0.6546

## The Mixed Procedure

Convergence criteria met.

## Estimated R Matrix for id(site) 1 1

Row	Col1	Col2	Col3	Col4	Col5
1	59.1924	41.1814	28.6508	19.9330	13.8678
2	41.1814	59.1924	41.1814	28.6508	19.9330
3	28.6508	41.1814	59.1924	41.1814	28.6508
4	19.9330	28.6508	41.1814	59.1924	41.1814
5	13.8678	19.9330	28.6508	41.1814	59.1924

## Estimated R Correlation Matrix for id(site) 1 1

Row	Col1	Col2	Col3	Col4	Col5
1	1.0000	0.6957	0.4840	0.3367	0.2343
2	0.6957	1.0000	0.6957	0.4840	0.3367
3	0.4840	0.6957	1.0000	0.6957	0.4840
4	0.3367	0.4840	0.6957	1.0000	0.6957
5	0.2343	0.3367	0.4840	0.6957	1.0000

## Estimated R Matrix for id(site) 2 1

Row	Col1	Col2	Col3	Col4	Col5
1	75.4201	46.6360	28.8373	17.8315	11.0261
2	46.6360	75.4201	46.6360	28.8373	17.8315
3	28.8373	46.6360	75.4201	46.6360	28.8373
4	17.8315	28.8373	46.6360	75.4201	46.6360
5	11.0261	17.8315	28.8373	46.6360	75.4201

## Estimated R Correlation Matrix for id(site) 2 1

Row	Col1	Col2	Col3	Col4	Col5
1	1.0000	0.6183	0.3824	0.2364	0.1462
2	0.6183	1.0000	0.6183	0.3824	0.2364
3	0.3824	0.6183	1.0000	0.6183	0.3824
4	0.2364	0.3824	0.6183	1.0000	0.6183
5	0.1462	0.2364	0.3824	0.6183	1.0000

The Mixed Procedure

Estimated R Matrix for id(site) 8 1

Row	Col1	Col2	Col3	Col4	Col5
1	82.2313	51.2377	31.9258	19.8927	12.3950
2	51.2377	82.2313	51.2377	31.9258	19.8927
3	31.9258	51.2377	82.2313	51.2377	31.9258
4	19.8927	31.9258	51.2377	82.2313	51.2377
5	12.3950	19.8927	31.9258	51.2377	82.2313

Estimated R Correlation Matrix for id(site) 8 1

Row	Col1	Col2	Col3	Col4	Col5
1	1.0000	0.6231	0.3882	0.2419	0.1507
2	0.6231	1.0000	0.6231	0.3882	0.2419
3	0.3882	0.6231	1.0000	0.6231	0.3882
4	0.2419	0.3882	0.6231	1.0000	0.6231
5	0.1507	0.2419	0.3882	0.6231	1.0000

Covariance Parameter Estimates

Cov Parm	Subject	Group	Estimate	Standard Error	Z Value	Pr > Z
Variance	id(site)	trt 10000U	75.4201	11.3412	6.65	<.0001
AR(1)	id(site)	trt 10000U	0.6183	0.06258	9.88	<.0001
Variance	id(site)	trt 5000U	59.1924	9.9515	5.95	<.0001
AR(1)	id(site)	trt 5000U	0.6957	0.05705	12.20	<.0001
Variance	id(site)	trt Placebo	82.2313	12.5935	6.53	<.0001
AR(1)	id(site)	trt Placebo	0.6231	0.06359	9.80	<.0001

Fit Statistics

-2 Res Log Likelihood	3399.6
AIC (smaller is better)	3411.6
AICC (smaller is better)	3411.8
BIC (smaller is better)	3427.7

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
age	1	111	1.62	0.2060
sex	1	102	1.29	0.2592
age*sex	1	101	1.93	0.1681
trt	2	74.8	1.81	0.1708

## The Mixed Procedure

## Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
age*trt	2	74.7	2.22	0.1163
week	4	351	1.44	0.2217
age*week	4	349	2.33	0.0554
trt*week	8	299	1.37	0.2069
age*trt*week	8	298	1.18	0.3078
trt*sex	2	74.3	0.64	0.5313
sex*week	4	337	0.58	0.6756
trt*sex*week	8	295	0.76	0.6344

## The Mixed Procedure

Convergence criteria met.

## Estimated R Matrix for id(site) 1 1

Row	Col1	Col2	Col3	Col4	Col5
1	70.4629	46.8258	31.1179	20.6792	13.7423
2	46.8258	70.4629	46.8258	31.1179	20.6792
3	31.1179	46.8258	70.4629	46.8258	31.1179
4	20.6792	31.1179	46.8258	70.4629	46.8258
5	13.7423	20.6792	31.1179	46.8258	70.4629

## Estimated R Correlation Matrix for id(site) 1 1

Row	Col1	Col2	Col3	Col4	Col5
1	1.0000	0.6645	0.4416	0.2935	0.1950
2	0.6645	1.0000	0.6645	0.4416	0.2935
3	0.4416	0.6645	1.0000	0.6645	0.4416
4	0.2935	0.4416	0.6645	1.0000	0.6645
5	0.1950	0.2935	0.4416	0.6645	1.0000

## Estimated R Matrix for id(site) 7 1

Row	Col1	Col2	Col3	Col4	Col5
1	74.5208	44.5038	26.5776	15.8721	9.4788
2	44.5038	74.5208	44.5038	26.5776	15.8721
3	26.5776	44.5038	74.5208	44.5038	26.5776
4	15.8721	26.5776	44.5038	74.5208	44.5038
5	9.4788	15.8721	26.5776	44.5038	74.5208

## Estimated R Correlation Matrix for id(site) 7 1

Row	Col1	Col2	Col3	Col4	Col5
1	1.0000	0.5972	0.3566	0.2130	0.1272
2	0.5972	1.0000	0.5972	0.3566	0.2130
3	0.3566	0.5972	1.0000	0.5972	0.3566
4	0.2130	0.3566	0.5972	1.0000	0.5972
5	0.1272	0.2130	0.3566	0.5972	1.0000

The Mixed Procedure

Covariance Parameter Estimates

Cov Parm	Subject	Group	Estimate	Standard Error	Z Value	Pr > Z
Variance	id(site)	sex F	70.4629	8.1026	8.70	<.0001
AR(1)	id(site)	sex F	0.6645	0.04241	15.67	<.0001
Variance	id(site)	sex M	74.5208	10.8741	6.85	<.0001
AR(1)	id(site)	sex M	0.5972	0.06543	9.13	<.0001

Fit Statistics

-2 Res Log Likelihood	3407.4
AIC (smaller is better)	3415.4
AICC (smaller is better)	3415.5
BIC (smaller is better)	3426.2

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
age	1	98	1.77	0.1861
sex	1	98	1.81	0.1818
age*sex	1	98	2.60	0.1104
trt	2	98	1.99	0.1425
age*trt	2	98	2.41	0.0950
week	4	378	1.49	0.2045
age*week	4	378	2.46	0.0452
trt*week	8	378	1.38	0.2051
age*trt*week	8	378	1.17	0.3177
trt*sex	2	98	0.67	0.5162
sex*week	4	378	0.56	0.6927
trt*sex*week	8	378	0.71	0.6832

Model M4b-9. Same as previous model but drop age  
 This is final model when week is a factor

The Mixed Procedure

Convergence criteria met.

Covariance Parameter Estimates

Cov Parm	Subject	Group	Estimate	Standard Error	Z Value	Pr > Z
Variance	id(site)	trt 10000U	77.0849	11.2200	6.87	<.0001
AR(1)	id(site)	trt 10000U	0.6404	0.05773	11.09	<.0001
Variance	id(site)	trt 5000U	60.4942	9.5723	6.32	<.0001
AR(1)	id(site)	trt 5000U	0.6938	0.05451	12.73	<.0001
Variance	id(site)	trt Placebo	82.9271	12.2492	6.77	<.0001
AR(1)	id(site)	trt Placebo	0.6155	0.06273	9.81	<.0001

Fit Statistics

-2 Res Log Likelihood	3445.6
AIC (smaller is better)	3457.6
AICC (smaller is better)	3457.8
BIC (smaller is better)	3473.8

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
trt	2	78.2	3.99	0.0224
week	4	375	18.53	<.0001
trt*week	8	319	1.93	0.0545

Least Squares Means

Effect	trt	week	Estimate	Standard Error	DF	t Value	Pr >  t
trt	10000U		-6.5438	1.0797	42.3	-6.06	<.0001
trt	5000U		-6.0313	1.0071	37.8	-5.99	<.0001
trt	Placebo		-2.4877	1.1234	38.6	-2.21	0.0328
week		2	-7.9426	0.8375	273	-9.48	<.0001
week		4	-8.5434	0.8283	267	-10.31	<.0001
week		8	-5.8555	0.8326	271	-7.03	<.0001
week		12	-2.8514	0.8354	271	-3.41	0.0007
week		16	0.08804	0.8350	268	0.11	0.9161
trt*week	10000U	2	-10.8019	1.4554	96.2	-7.42	<.0001
trt*week	10000U	4	-11.8383	1.4519	96.2	-8.15	<.0001
trt*week	10000U	8	-8.2156	1.4738	100	-5.57	<.0001
trt*week	10000U	12	-3.4952	1.4786	99.6	-2.36	0.0200



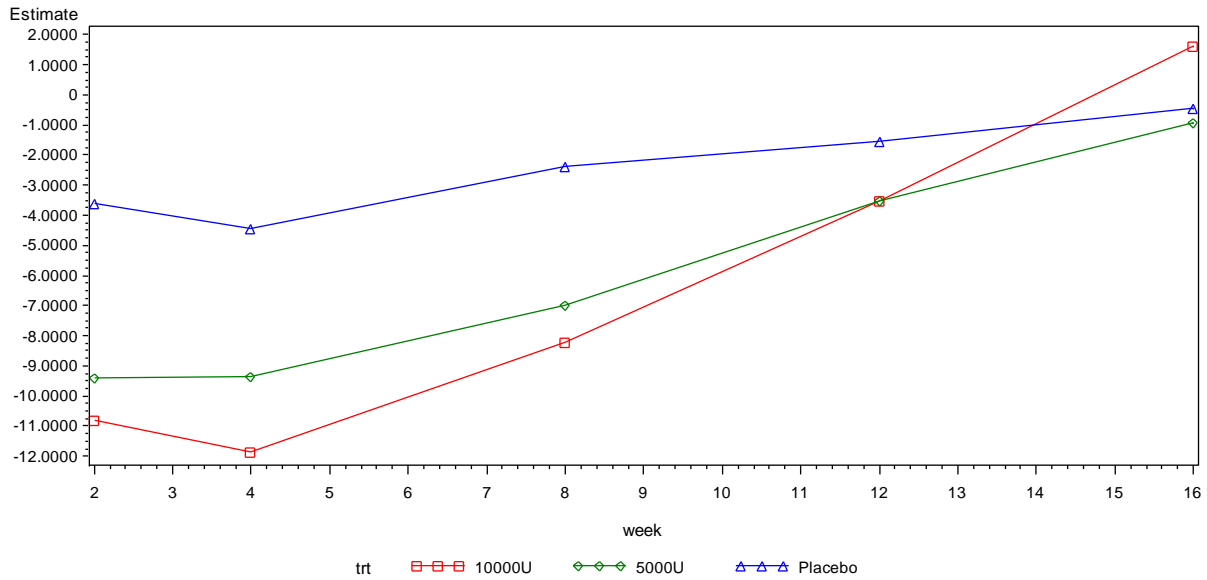
Model M4b-9. Same as previous model but drop age  
 This is final model when week is a factor

The Mixed Procedure

Least Squares Means

Effect	trt	week	Estimate	Standard Error	DF	t Value	Pr >  t
trt*week	10000U	16	1.6318	1.4623	95.3	1.12	0.2673
trt*week	5000U	2	-9.4078	1.3165	83.1	-7.15	<.0001
trt*week	5000U	4	-9.3634	1.3029	81.3	-7.19	<.0001
trt*week	5000U	8	-6.9794	1.3029	81.3	-5.36	<.0001
trt*week	5000U	12	-3.5000	1.2963	79.9	-2.70	0.0085
trt*week	5000U	16	-0.9061	1.3061	81.5	-0.69	0.4898
trt*week	Placebo	2	-3.6180	1.5687	95.5	-2.31	0.0233
trt*week	Placebo	4	-4.4286	1.5393	91.7	-2.88	0.0050
trt*week	Placebo	8	-2.3714	1.5393	91.7	-1.54	0.1269
trt*week	Placebo	12	-1.5589	1.5536	93.5	-1.00	0.3183
trt*week	Placebo	16	-0.4615	1.5590	93.1	-0.30	0.7678

Group by time profile plots for model M4b-9



The Mixed Procedure

Convergence criteria met.

Covariance Parameter Estimates

Cov Parm	Subject	Group	Estimate	Standard Error	Z Value	Pr > Z
Variance	id(site)	trt 10000U	74.9452	10.7624	6.96	<.0001
AR(1)	id(site)	trt 10000U	0.6407	0.05689	11.26	<.0001
Variance	id(site)	trt 5000U	58.7896	9.1735	6.41	<.0001
AR(1)	id(site)	trt 5000U	0.6940	0.05372	12.92	<.0001
Variance	id(site)	trt Placebo	80.5139	11.7204	6.87	<.0001
AR(1)	id(site)	trt Placebo	0.6155	0.06181	9.96	<.0001

Fit Statistics

-2 Log Likelihood	3477.4
AIC (smaller is better)	3519.4
AICC (smaller is better)	3521.3
BIC (smaller is better)	3576.0

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
trt	2	80.5	4.11	0.0200
week	4	386	19.09	<.0001
trt*week	8	329	1.99	0.0468

The Mixed Procedure

Convergence criteria met.

Covariance Parameter Estimates

Cov Parm	Subject	Group	Estimate	Standard Error	Z Value	Pr >  Z
Variance	id(site)	trt 10000U	76.7667	10.9402	7.02	<.0001
AR(1)	id(site)	trt 10000U	0.6316	0.05789	10.91	<.0001
Variance	id(site)	trt 5000U	58.8241	9.1193	6.45	<.0001
AR(1)	id(site)	trt 5000U	0.6886	0.05426	12.69	<.0001
Variance	id(site)	trt Placebo	80.6451	11.6939	6.90	<.0001
AR(1)	id(site)	trt Placebo	0.6117	0.06214	9.84	<.0001

Fit Statistics

-2 Log Likelihood	3487.8
AIC (smaller is better)	3511.8
AICC (smaller is better)	3512.4
BIC (smaller is better)	3544.1

Solution for Fixed Effects

Effect	trt	Estimate	Standard Error	DF	t Value	Pr >  t
Intercept		-4.5724	1.6330	84.6	-2.80	0.0063
trt	10000U	-9.4396	2.2488	173	-4.20	<.0001
trt	5000U	-6.6279	2.1394	163	-3.10	0.0023
trt	Placebo	0	.	.	.	.
week		0.2596	0.1419	156	1.83	0.0692
week*trt	10000U	0.6951	0.1944	317	3.58	0.0004
week*trt	5000U	0.3811	0.1817	303	2.10	0.0368
week*trt	Placebo	0	.	.	.	.

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
trt	2	170	9.20	0.0002
week	1	467	67.91	<.0001
week*trt	2	319	6.38	0.0019

The Mixed Procedure

Convergence criteria met.

Covariance Parameter Estimates

Cov Parm	Subject	Group	Estimate	Standard Error	Z Value	Pr >  Z
Variance	id(site)	trt 10000U	78.4561	11.3968	6.88	<.0001
AR(1)	id(site)	trt 10000U	0.6378	0.05787	11.02	<.0001
Variance	id(site)	trt 5000U	60.2633	9.5375	6.32	<.0001
AR(1)	id(site)	trt 5000U	0.6946	0.05415	12.83	<.0001
Variance	id(site)	trt Placebo	82.5252	12.2199	6.75	<.0001
AR(1)	id(site)	trt Placebo	0.6188	0.06214	9.96	<.0001

Fit Statistics

-2 Res Log Likelihood	3488.8
AIC (smaller is better)	3500.8
AICC (smaller is better)	3501.0
BIC (smaller is better)	3516.9

Solution for Fixed Effects

Effect	trt	Estimate	Standard Error	DF	t Value	Pr >  t
Intercept		-4.5712	1.6531	81.9	-2.77	0.0070
trt	10000U	-9.4363	2.2757	168	-4.15	<.0001
trt	5000U	-6.6261	2.1658	158	-3.06	0.0026
trt	Placebo	0	.	.	.	.
week		0.2598	0.1430	153	1.82	0.0712
week*trt	10000U	0.6953	0.1959	313	3.55	0.0004
week*trt	5000U	0.3810	0.1831	299	2.08	0.0383
week*trt	Placebo	0	.	.	.	.

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
trt	2	164	8.98	0.0002
week	1	461	66.92	<.0001
week*trt	2	315	6.28	0.0021



The Mixed Procedure

Convergence criteria met.

Covariance Parameter Estimates

Cov Parm	Subject	Group	Estimate	Standard Error	Z Value	Pr >  Z
Variance	id(site)	trt 10000U	78.4561	11.3968	6.88	<.0001
AR(1)	id(site)	trt 10000U	0.6378	0.05787	11.02	<.0001
Variance	id(site)	trt 5000U	60.2633	9.5375	6.32	<.0001
AR(1)	id(site)	trt 5000U	0.6946	0.05415	12.83	<.0001
Variance	id(site)	trt Placebo	82.5252	12.2199	6.75	<.0001
AR(1)	id(site)	trt Placebo	0.6188	0.06214	9.96	<.0001

Fit Statistics

-2 Res Log Likelihood	3488.8
AIC (smaller is better)	3500.8
AICC (smaller is better)	3501.0
BIC (smaller is better)	3516.9

Solution for Fixed Effects

Effect	trt	Estimate	Standard Error	DF	t Value	Pr >  t
Intercept		-4.0515	1.4524	67.5	-2.79	0.0069
trt	10000U	-8.0458	2.0030	138	-4.02	<.0001
trt	5000U	-5.8641	1.9143	130	-3.06	0.0027
trt	Placebo	0	.	.	.	.
week2		0.2598	0.1430	153	1.82	0.0712
week2*trt	10000U	0.6953	0.1959	313	3.55	0.0004
week2*trt	5000U	0.3810	0.1831	299	2.08	0.0383
week2*trt	Placebo	0	.	.	.	.

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
trt	2	135	8.55	0.0003
week2	1	461	66.92	<.0001
week2*trt	2	315	6.28	0.0021



The Mixed Procedure

Least Squares Means

Effect	trt	week2	Estimate	Standard Error	DF	t Value	Pr >  t
trt	10000U	0.00	-12.0973	1.3793	71.9	-8.77	<.0001
trt	5000U	0.00	-9.9156	1.2470	64.4	-7.95	<.0001
trt	Placebo	0.00	-4.0515	1.4524	67.5	-2.79	0.0069

Differences of Least Squares Means

Effect	trt	_trt	week2	Estimate	Standard Error	DF	t Value	Pr >  t	Adjustment
trt	10000U	Placebo	0.00	-8.0458	2.0030	138	-4.02	<.0001	Dunnett
trt	5000U	Placebo	0.00	-5.8641	1.9143	130	-3.06	0.0027	Dunnett

Differences of Least Squares Means

Effect	trt	_trt	Adj P
trt	10000U	Placebo	0.0002
trt	5000U	Placebo	0.0051



The Mixed Procedure

Convergence criteria met.

Covariance Parameter Estimates

Cov Parm	Subject	Group	Estimate	Standard Error	Z Value	Pr >  Z
Variance	id(site)	trt 10000U	78.4561	11.3968	6.88	<.0001
AR(1)	id(site)	trt 10000U	0.6378	0.05787	11.02	<.0001
Variance	id(site)	trt 5000U	60.2633	9.5375	6.32	<.0001
AR(1)	id(site)	trt 5000U	0.6946	0.05415	12.83	<.0001
Variance	id(site)	trt Placebo	82.5252	12.2199	6.75	<.0001
AR(1)	id(site)	trt Placebo	0.6188	0.06214	9.96	<.0001

Fit Statistics

-2 Res Log Likelihood	3488.8
AIC (smaller is better)	3500.8
AICC (smaller is better)	3501.0
BIC (smaller is better)	3516.9

Solution for Fixed Effects

Effect	trt	Estimate	Standard Error	DF	t Value	Pr >  t
Intercept		-0.4137	1.5263	78.9	-0.27	0.7871
trt	10000U	1.6878	2.1081	162	0.80	0.4245
trt	5000U	-0.5302	1.9984	150	-0.27	0.7911
trt	Placebo	0	.	.	.	.
week16		0.2598	0.1430	153	1.82	0.0712
week16*trt	10000U	0.6953	0.1959	313	3.55	0.0004
week16*trt	5000U	0.3810	0.1831	299	2.08	0.0383
week16*trt	Placebo	0	.	.	.	.

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
trt	2	157	0.68	0.5088
week16	1	461	66.92	<.0001
week16*trt	2	315	6.28	0.0021



The Mixed Procedure

Least Squares Means

Effect	trt	week16	Estimate	Standard Error	DF	t Value	Pr >  t
trt	10000U	0.00	1.2741	1.4542	83.8	0.88	0.3835
trt	5000U	0.00	-0.9439	1.2900	73.9	-0.73	0.4667
trt	Placebo	0.00	-0.4137	1.5263	78.9	-0.27	0.7871

Differences of Least Squares Means

Effect	trt	_trt	week16	Estimate	Standard Error	DF	t Value	Pr >  t	Adjustment
trt	10000U	Placebo	0.00	1.6878	2.1081	162	0.80	0.4245	Dunnett
trt	5000U	Placebo	0.00	-0.5302	1.9984	150	-0.27	0.7911	Dunnett

Differences of Least Squares Means

Effect	trt	_trt	Adj P
trt	10000U	Placebo	0.6301
trt	5000U	Placebo	0.9480





The Mixed Procedure

Convergence criteria met.

Covariance Parameter Estimates

Cov Parm	Subject	Group	Estimate	Standard Error	Z Value	Pr > Z
Intercept	site		0	.	.	.
Variance	id(site)	trt 10000U	78.4561	11.3968	6.88	<.0001
AR(1)	id(site)	trt 10000U	0.6378	0.05787	11.02	<.0001
Variance	id(site)	trt 5000U	60.2633	9.5375	6.32	<.0001
AR(1)	id(site)	trt 5000U	0.6946	0.05415	12.83	<.0001
Variance	id(site)	trt Placebo	82.5251	12.2199	6.75	<.0001
AR(1)	id(site)	trt Placebo	0.6188	0.06214	9.96	<.0001

Fit Statistics

-2 Res Log Likelihood	3488.8
AIC (smaller is better)	3500.8
AICC (smaller is better)	3501.0
BIC (smaller is better)	3502.0

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
trt	2	164	8.98	0.0002
week	1	461	66.92	<.0001
week*trt	2	315	6.28	0.0021