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The SAS System

The MEANS Procedure

Variable	N	Mean	Std Dev	Minimum	Maximum
ID	400	200.5000000	115.6143013	1.0000000	400.0000000
is_female	400	0.3750000	0.9281858	-1.0000000	1.0000000
baseline_bmi_centered	400	-0.0035000	3.2716704	-5.3900000	5.6100000
coaching	400	0.0050000	1.0012398	-1.0000000	1.0000000
meal	202	0.0495050	1.0012553	-1.0000000	1.0000000
R	400	0.4950000	0.5006011	0	1.0000000
final_kg_lost	400	2.0497500	2.6365942	-5.8000000	10.2000000

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The SAS System

The GENMOD Procedure

Model Information			
Data Set WORK.PERSON_LEVEL_FOR_ANALYSIS			
Distribution Normal			
Link Function Identity			
Dependent Variable final_kg_los			
Scale Weight Variable	replicate_weight		

Number of Observations Read	598
Number of Observations Used	598
Sum of Weights	1600

	Class Level Information					
Class	Levels	Values				
ID	400	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87				

Parameter Information			
Parameter Effect			
Prm1	Intercept		
Prm2 is_female			
Prm3 baseline_bmi_center			
Prm4 coaching			
Prm5 meal			
Prm6 coaching*meal			

Algorithm converged.

GEE Model Information			
Correlation Structure Independen			
Subject Effect	ID (400 levels)		
Number of Clusters	400		
Correlation Matrix Dimension	2		
Maximum Cluster Size	2		

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Analysis Of GEE Parameter Estimates							
Empirical Standard Error Estimates							
Parameter Estimate Standard Error 95% Confidence Limits					Z	Pr > Z	
Intercept	1.9457	0.1404	1.6705	2.2210	13.86	<.0001	
is_female	0.2629	0.1403	-0.0121	0.5379	1.87	0.0610	
baseline_bmi_centere	-0.0366	0.0382	-0.1115	0.0383	-0.96	0.3382	
coaching	0.6638	0.1276	0.4137	0.9139	5.20	<.0001	
meal	0.1065	0.0907	-0.0713	0.2843	1.17	0.2403	
coaching*meal	0.0276	0.0908	-0.1504	0.2055	0.30	0.7614	

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The SAS System

The MEANS Procedure

Variable	N	Mean	Std Dev	Minimum	Maximum
ID	33600	200.5000000	115.4714113	1.0000000	400.0000000
day	33600	42.5000000	24.2473538	1.0000000	84.0000000
is_female	33600	0.3750000	0.9270386	-1.0000000	1.0000000
baseline_bmi_centered	33600	-0.0035000	3.2676269	-5.3900000	5.6100000
coaching	33600	0.0050000	1.0000024	-1.0000000	1.0000000
R	33600	0.4950000	0.4999824	0	1.0000000
meal	16968	0.0495050	0.9988033	-1.0000000	1.0000000
A	33600	0.000059524	1.0000149	-1.0000000	1.0000000
proximal_outcome	33600	0.6065179	0.4885295	0	1.0000000
replicate_weight	33600	3.0100000	0.9999649	2.0000000	4.0000000

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The SAS System

The GENMOD Procedure

Model Information			
Data Set	WORK.OCCASION_LEVEL_FOR_ANALYSIS		
Distribution Binomial			
Link Function	Log		
Dependent Variable	proximal_outcome		
Scale Weight Variable	replicate_weight		

Number of Observations Read	50232
Number of Observations Used	50232
Sum of Weights	134400
Number of Events	30694
Number of Trials	50232

	Class Level Information					
Class	Levels	Values				
ID	400	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87				

Response Profile				
Ordered Value	proximal_outcome	Total Frequency	Total Weight	
1	1	30694	81516	
2	0	19538	52884	

PROC GENMOD is modeling the probability that proximal_outcome='1'.

Parameter Information					
Parameter	Effect				
Prm1	Intercept				
Prm2	is_female				
Prm3	baseline_bmi_centere				
Prm4	coaching				
Prm5	meal				

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Prm6	coaching*meal			
Prm7	A			
Prm8	coaching*A			
Prm9	meal*A			
Prm10	coaching*meal*A			

Algorithm converged.

GEE Model Information					
Correlation Structure	Independent				
Subject Effect	ID (400 levels)				
Number of Clusters	400				
Correlation Matrix Dimension	168				
Maximum Cluster Size	168				
Minimum Cluster Size	84				

Algorithm converged.

GEE Fit Criteria			
QIC	179880.6588		
QICu	179823.5477		

Analysis Of GEE Parameter Estimates										
Empirical Standard Error Estimates										
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr > Z				
Intercept	-0.5074	0.0056	-0.5184	-0.4964	-90.52	<.0001				
is_female	0.0170	0.0057	0.0058	0.0283	2.97	0.0030				
baseline_bmi_centere	-0.0007	0.0015	-0.0037	0.0023	-0.45	0.6512				
coaching	0.0342	0.0049	0.0246	0.0438	6.98	<.0001				
meal	0.0050	0.0035	-0.0019	0.0118	1.42	0.1566				
coaching*meal	0.0053	0.0035	-0.0015	0.0122	1.53	0.1258				
Α	0.0076	0.0046	-0.0015	0.0167	1.63	0.1030				
coaching*A	0.0101	0.0046	0.0010	0.0192	2.18	0.0296				
meal*A	0.0046	0.0033	-0.0019	0.0110	1.39	0.1650				
coaching*meal*A	-0.0009	0.0033	-0.0074	0.0055	-0.28	0.7815				