SAS Output from Model 1

Model Information

Description	Value
Data Set	WORK.A
Distribution	BINOMIAL
Link Function	LOGIT
Dependent Variable	RATING
Observations Used	215
Number Of Events	73
Number Of Trials	215
Missing Values	4

GEE Model Information

Description	Value
Correlation Structure	Unstructured
Subject Effect	SUBJECT (73 levels)
Number of Clusters	73
Clusters With Missing Values	4
Correlation Matrix Dimension	3
Maximum Cluster Size	3
Minimum Cluster Size	2

Working Correlation Matrix

	COL1	COL2	COL3
ROW1	1.0000	0.6175	0.3902
ROW2	0.6175	1.0000	0.4280
ROW3	0.3902	0.4280	1.0000

Analysis Of GEE Parameter Estimates Empirical Standard Error Estimates

		Empirical	95% Confidence	Limits		
Parameter	Estimate	Std Err	Lower	Upper	Z	Pr>\Z\
INTERCEPT	0.5036	1.1598	-1.7696	2.7769	0.4342	0.6641
AGE	-0.0391	0.0255	-0.0890	0.0109	-1.533	0.1253
AGE4	0.0174	0.0325	-0.0463	0.0812	0.5359	0.5920
AGE8	0.0035	0.0325	-0.0603	0.0672	0.1062	0.9154
MALE	-0.7927	0.5288	-1.8292	0.2438	-1.499	0.1339
MALE4	0.0924	0.5179	-0.9227	1.1074	0.1783	0.8585
MALE8	0.1890	0.5539	-0.8966	1.2745	0.3412	0.7329
DOSE2	0.8933	0.8287	-0.7310	2.5175	1.0779	0.2811
DOSE3	1.3253	0.8453	-0.3315	2.9821	1.5678	0.1169
DOSE4	1.4086	0.9115	-0.3779	3.1952	1.5453	0.1223
DOSE24	0.4983	0.7007	-0.8751	1.8717	0.7111	0.4770
DOSE28	-0.4086	0.8541	-2.0826	1.2655	4784	0.6324
DOSE34	1.0309	0.6915	-0.3245	2.3862	1.4907	0.1360
DOSE38	0.6924	0.7419	-0.7617	2.1465	0.9333	0.3507
DOSE44	0.8234	0.7365	-0.6201	2.2669	1.1181	0.2635
DOSE48	0.5150	0.9631	-1.3726	2.4027	0.5348	0.5928
WEEK4	-1.3207	1.5473	-4.3533	1.7119	8536	0.3934
WEEK8	-0.4118	1.6370	-3.6202	2.7967	2515	0.8014
Scale	1.0501	•	•	•	•	•

SAS Output from Model 1 (continued)

Age X Week Interaction

Х

0.0174358

0.0034514

VAR.

0.0010587 0.0006238

0.0006238 0.0010565

RESULT Chi-square

df p-value

0.355

2.000

0.837

Sex X Week Interaction

Х

0.0923516

0.1889898

VAR

0.268228 0.1214222

0.1214222 0.3067659

RESULT Chi-square

df p-value

0.118

2.000

0.943

Dose X Week Interaction

Х

0.4983019

-0.408591

1.0308516

0.692408

0.82343

0.5150259

VAR

 $0.4910461\ 0.2946633\ 0.2358191\ 0.1694682\ 0.2739538\ 0.2116678$

 $0.2946633\ 0.7295267\ 0.1627168\ 0.4165302\ 0.2072939\ 0.4074017$

 $0.2358191\ 0.1627168\quad 0.478196\ 0.2246463\ 0.2407342\ 0.1906232$

 $0.1694682\ 0.4165302\ 0.2246463\ 0.5503949\ 0.1843903\ 0.4244211$

0.2739538 0.2072939 0.2407342 0.1843903 0.5424087 0.3873636

0.2116678 0.4074017 0.1906232 0.4244211 0.3873636 0.9275523

RESULT Chi-square $\hspace{1cm} ext{df} \hspace{1cm} p ext{-value}$

5.003 6.000 0.543

SAS Output from Model 2 (Indicator Effects for Dosage)

Analysis Of Initial Parameter Estimates

Parameter	DF	Estimate	Std Err	ChiSquare	Pr>Chi
INTERCEPT	1	-0.3723	0.7903	0.2219	0.6376
AGE	1	-0.0286	0.0141	4.0915	0.0431
MALE	1	-0.7268	0.3178	5.2304	0.0222
DOSE2	1	0.9877	0.5088	3.7682	0.0522
DOSE3	1	1.9343	0.5045	14.6980	0.0001
DOSE4	1	1.9672	0.5100	14.8766	0.0001
WEEK4	1	0.2383	0.3858	0.3816	0.5368
WEEK8	1	0.0596	0.3886	0.0235	0.8780
SCALE	0	1.0000	0.0000		

NOTE: The scale parameter was held fixed.

GEE Model Information

Description	Value
Correlation Structure	Unstructured
Subject Effect	SUBJECT (73 levels)
Number of Clusters	73
Clusters With Missing Values	4
Correlation Matrix Dimension	3
Maximum Cluster Size	3
Minimum Cluster Size	2

Working Correlation Matrix

	COL1	COL2	COL3
ROW1	1.0000	0.6080	0.3989
ROW2	0.6080	1.0000	0.4082
ROW3	0.3989	0.4082	1.0000

Analysis Of GEE Parameter Estimates Empirical Standard Error Estimates

		Empirical	95% Confidence	Limits		
Parameter	Estimate	Std Err	Lower	Upper	Z	Pr>\Z\
INTERCEPT	-0.3571	0.7657	-1.8579	1.1436	4664	0.6409
AGE	-0.0287	0.0154	-0.0589	0.0016	-1.858	0.0632
MALE	-0.6447	0.4240	-1.4756	0.1862	-1.521	0.1283
DOSE2	0.9334	0.7328	-0.5029	2.3697	1.2738	0.2027
DOSE3	1.9282	0.7503	0.4575	3.3988	2.5698	0.0102
DOSE4	1.9368	0.7392	0.4880	3.3856	2.6201	0.0088
WEEK4	0.1890	0.2597	-0.3199	0.6980	0.7280	0.4666
WEEK8	0.0604	0.2923	-0.5124	0.6333	0.2067	0.8362
Scale	1.0411			•		•

SAS Output from Model 2 (Linear, Quadratic, and Cubic Effects for Dosage)

Analysis Of Initial Parameter Estimates

Parameter	DF	Estimate	Std Err	ChiSquare	Pr>Chi
INTERCEPT	1	-0.3723	0.7903	0.2219	0.6376
AGE	1	-0.0286	0.0141	4.0915	0.0431
MALE	1	-0.7268	0.3178	5.2304	0.0222
DOSE	1	0.8635	1.1194	0.5950	0.4405
DOSESQ	1	0.1966	0.7962	0.0610	0.8050
DOSECU	1	-0.0724	0.1359	0.2835	0.5944
WEEK4	1	0.2383	0.3858	0.3816	0.5368
WEEK8	1	0.0596	0.3886	0.0235	0.8780
SCALE	0	1.0000	0.0000		

NOTE: The scale parameter was held fixed.

GEE Model Information

Description	Value
Correlation Structure	Unstructured
Subject Effect	SUBJECT (73 levels)
Number of Clusters	73
Clusters With Missing Values	4
Correlation Matrix Dimension	3
Maximum Cluster Size	3
Minimum Cluster Size	2

Working Correlation Matrix

	COL1	COL2	COL3
ROW1	1.0000	0.6080	0.3989
ROW2	0.6080	1.0000	0.4082
ROW3	0.3989	0.4082	1.0000

Analysis Of GEE Parameter Estimates Empirical Standard Error Estimates

		Empirical	95% Confidence	Limits		
Parameter	Estimate	Std Err	Lower	Upper	Z	Pr>\Z\
INTERCEPT	-0.3571	0.7657	-1.8579	1.1436	4664	0.6409
AGE	-0.0287	0.0154	-0.0589	0.0016	-1.858	0.0632
MALE	-0.6447	0.4240	-1.4756	0.1862	-1.521	0.1283
DOSE	0.7224	1.5725	-2.3597	3.8045	0.4594	0.6460
DOSESQ	0.3012	1.1020	-1.8587	2.4612	0.2733	0.7846
DOSECU	-0.0902	0.1882	-0.4590	0.2786	4793	0.6317
WEEK4	0.1890	0.2597	-0.3199	0.6980	0.7280	0.4666
WEEK8	0.0604	0.2923	-0.5124	0.6333	0.2067	0.8362
Scale	1.0411			•		•

SAS Output from Model 3 (Indicator Effects for Dosage)

Analysis Of Initial Parameter Estimates

Parameter	DF	Estimate	Std Err	ChiSquare	Pr>Chi
INTERCEPT	1	-0.2746	0.7585	0.1311	0.7173
AGE	1	-0.0285	0.0141	4.0755	0.0435
MALE	1	-0.7221	0.3173	5.1790	0.0229
DOSE2	1	0.9850	0.5083	3.7558	0.0526
DOSE3	1	1.9294	0.5039	14.6636	0.0001
DOSE4	1	1.9614	0.5093	14.8311	0.0001
SCALE	0	1.0000	0.0000		

NOTE: The scale parameter was held fixed.

GEE Model Information

Description	Value
Correlation Structure Subject Effect	Unstructured SUBJECT (73 levels)
Number of Clusters Clusters With Missing Values	73 4
Correlation Matrix Dimension	3
Maximum Cluster Size	3
Minimum Cluster Size	2

Working Correlation Matrix

	COL1	COL2	COL3
ROW1	1.0000	0.6065	0.3905
ROW2	0.6065	1.0000	0.4111
ROW3	0.3905	0.4111	1.0000

Analysis Of GEE Parameter Estimates Empirical Standard Error Estimates

		Empirical	95% Confidence	Limits		
Parameter	Estimate	Std Err	Lower	Upper	Z	Pr>\Z\
INTERCEPT	-0.2350	0.7495	-1.7040	1.2339	3136	0.7538
AGE	-0.0285	0.0154	-0.0588	0.0017	-1.849	0.0645
MALE	-0.6627	0.4239	-1.4936	0.1681	-1.563	0.1180
DOSE2	0.8819	0.7254	-0.5399	2.3037	1.2158	0.2241
DOSE3	1.8757	0.7440	0.4176	3.3339	2.5213	0.0117
DOSE4	1.9122	0.7334	0.4747	3.3497	2.6072	0.0091
Scale	1.0382					

SAS Output from Model 3 (Linear, Quadratic, and Cubic Effects for Dosage)

Analysis Of Initial Parameter Estimates

Parameter	DF	Estimate	Std Err	${\tt ChiSquare}$	Pr>Chi
INTERCEPT	1	-0.2746	0.7585	0.1311	0.7173
AGE	1	-0.0285	0.0141	4.0755	0.0435
MALE	1	-0.7221	0.3173	5.1790	0.0229
DOSE	1	0.8608	1.1183	0.5925	0.4414
DOSESQ	1	0.1965	0.7952	0.0611	0.8048
DOSECU	1	-0.0723	0.1358	0.2835	0.5944
SCALE	0	1.0000	0.0000		•

NOTE: The scale parameter was held fixed.

GEE Model Information

Description	Value
Correlation Structure	Unstructured
Subject Effect	SUBJECT (73 levels)
Number of Clusters	73
Clusters With Missing Values	4
Correlation Matrix Dimension	3
Maximum Cluster Size	3
Minimum Cluster Size	2

Working Correlation Matrix

	COL1	COL2	COL3
ROW1	1.0000	0.6065	0.3905
ROW2	0.6065	1.0000	0.4111
ROW3	0.3905	0.4111	1.0000

Analysis Of GEE Parameter Estimates Empirical Standard Error Estimates

		Empirical	95% Confidence	Limits		
Parameter	Estimate	Std Err	Lower	Upper	Z	Pr>\Z\
INTERCEPT	-0.2350	0.7495	-1.7040	1.2339	3136	0.7538
AGE	-0.0285	0.0154	-0.0588	0.0017	-1.849	0.0645
MALE	-0.6627	0.4239	-1.4936	0.1681	-1.563	0.1180
DOSE	0.6354	1.5619	-2.4258	3.6967	0.4068	0.6841
DOSESQ	0.3418	1.0985	-1.8112	2.4948	0.3111	0.7557
DOSECU	-0.0953	0.1878	-0.4633	0.2728	5074	0.6119
Scale	1.0383					

SAS Output from Model 4

Analysis Of Initial Parameter Estimates

Parameter	DF	Estimate	Std Err	ChiSquare	Pr>Chi
INTERCEPT	1	0.4523	0.6566	0.4746	0.4909
AGE	1	-0.0335	0.0140	5.7381	0.0166
MALE	1	-0.7588	0.3124	5.9019	0.0151
DOSE	1	0.4434	0.1086	16.6771	0.0001
SCALE	0	1.0000	0.0000		

 ${\tt NOTE:}\ \ {\tt The}\ {\tt scale}\ {\tt parameter}\ {\tt was}\ {\tt held}\ {\tt fixed.}$

GEE Model Information

Description	Value
Maximum Cluster Size	Unstructured SUBJECT (73 levels) 73 4 3
Minimum Cluster Size	2

Working Correlation Matrix

	COL1	COL2	COL3
ROW1	1.0000	0.5747	0.3995
ROW2	0.5747	1.0000	0.4203
ROW3	0.3995	0.4203	1.0000

Analysis Of GEE Parameter Estimates Empirical Standard Error Estimates

D	Patimata	Empirical	95% Confidence		7	D> \ 7\
Parameter	Estimate	Std Err	Lower	Upper	۷	Pr>\Z\
INTERCEPT	0.4270	0.7833	-1.1082	1.9622	0.5451	0.5857
AGE	-0.0332	0.0170	-0.0665	0.0000	-1.958	0.0502
MALE	-0.7028	0.4339	-1.5532	0.1476	-1.620	0.1053
DOSE	0.4409	0.1446	0.1576	0.7242	3.0500	0.0023
Scale	1.0144	•	•			•

Anesthesia Clinical Trial

Dosage		А ое	Surgery Duration		Recovery F	Room Scores	-
$\frac{\text{(mg/kg)}}{\text{(mg/kg)}}$	Patient	Age (months)	(minutes)	Admission	Minute 5	Minute 15	Minute 30
15	$\frac{1}{2}$	$\begin{array}{c} 36 \\ 35 \end{array}$	$\frac{128}{70}$	$\frac{3}{3}$	$\frac{5}{4}$	$\frac{6}{6}$	6
	$\begin{array}{c} 1 \\ 2 \\ 3 \end{array}$	$\frac{55}{54}$	$\begin{array}{c} 70 \\ 138 \end{array}$	3 1	$\overset{4}{1}$	0 1	0 4
	4	47	67	1	3	3	5
	$\frac{5}{6}$	$\frac{42}{35}$	$\begin{array}{c} 55 \\ 94 \end{array}$	$\begin{array}{c} 5 \\ 3 \\ 6 \end{array}$	6	$\frac{6}{6}$	6
	7	$\begin{array}{c} 35 \\ 30 \end{array}$	44	$\overset{5}{6}$	$\frac{3}{6}$	$\overset{o}{6}$	$\overset{o}{6}$
	$\frac{8}{9}$	57	$\frac{54}{54}$	1	1	1	6
	10	$\frac{30}{41}$	$\begin{array}{c} 74 \\ 65 \end{array}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{4}{2}$	ნ 2
	11	34	50	1	1 2 3 3	$\overline{3}$	$\overline{5}$
	$\frac{12}{12}$	62	35	3		$egin{array}{c} 4 \\ 2 \\ 3 \\ 5 \\ 1 \end{array}$	6
	$\begin{array}{c} 13 \\ 14 \end{array}$	$\frac{24}{39}$	$\begin{array}{c} 55 \\ 165 \end{array}$	$\frac{1}{1}$	$\frac{1}{3}$	$\frac{1}{5}$	$\frac{4}{5}$
	15	$ \begin{array}{c} \hline 39 \\ 66 \\ 22 \end{array} $	158	0	$\begin{array}{c} 1\\3\\2\\1\end{array}$	$\begin{array}{c} 5 \\ 2 \\ 1 \end{array}$	$\tilde{3}$
20	$\frac{1}{2}$	$\frac{22}{49}$	$\begin{array}{c} 75 \\ 42 \end{array}$	1	$1 \\ 1$	$\frac{1}{1}$	6 6
	$\frac{1}{2}$	36	58	$\begin{array}{c} 1 \\ 2 \\ 1 \end{array}$	3	3	$\overset{o}{6}$
	4	43	60		$\frac{1}{c}$	3 2 6 2 6	$\frac{3}{c}$
	$\frac{5}{6}$	$\frac{23}{30}$	$\begin{array}{c} 64 \\ 46 \end{array}$	5 1	6 1	$\overset{\mathbf{o}}{2}$	6 4
	7	9	114	6	6	6	6
	$\frac{8}{9}$	$\begin{array}{c} 14 \\ 20 \end{array}$	$\begin{array}{c} 50 \\ 95 \end{array}$	$rac{4}{1}$	4	6 5	6 5
	10	50	125	1	$egin{array}{c} 4 \ 2 \ 6 \end{array}$	6 5 2 6	$\tilde{5}$
	$\begin{array}{c} 11 \\ 12 \end{array}$	26	$\frac{127}{172}$	$\begin{array}{c} 6 \\ 0 \end{array}$		6	6
	$\overset{12}{13}$	$\begin{array}{c} 40 \\ 12 \end{array}$	$\begin{array}{c} 173 \\ 110 \end{array}$	$\overset{0}{3}$	$\begin{array}{c} 0 \\ 6 \end{array}$	$_{6}^{0}$	$\overset{4}{6}$
	14	42	47	1	1	$\frac{6}{5}$	6
25	$\begin{array}{c} 15 \\ 1 \end{array}$	$\begin{array}{c} 18 \\ 26 \end{array}$	97 103	$\frac{2}{1}$	$\frac{2}{1}$	$\stackrel{\circ}{0}$	$\begin{smallmatrix} 6 & 6 & 4 & 5 & 6 & 6 & 6 & 6 & 2 & 5 & 6 & 4 & 6 & 6 & 6 & 5 & 3 & 6 & 4 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6$
20	$\overset{1}{2}$	28	103 89 51	3	6	6	$\overset{\mathbf{o}}{6}$
	$\begin{array}{c} 2 \\ 3 \\ 4 \end{array}$	$\begin{array}{c} 41 \\ 46 \end{array}$	$\begin{array}{c} 51 \\ 93 \end{array}$	1 3 2 1 2 6 3 2	$\frac{3}{1}$	4	$\frac{4}{6}$
	$\overset{4}{5}$	37	45	$\overset{1}{2}$		$\frac{5}{6}$	$\overset{0}{6}$
	$\frac{5}{6}$	$\frac{28}{37}$	$\begin{array}{c} 68 \\ 35 \end{array}$	6	$\frac{3}{6}$	6	6
	7 8	60	35 54	3 2	$\frac{5}{3}$	$\frac{6}{3}$	о 6
	8 9	60	55	1	1	1	$\tilde{3}$
	$\begin{array}{c} 10 \\ 11 \end{array}$	$\begin{array}{c} 38 \\ 47 \end{array}$	$\begin{array}{c} 78 \\ 118 \end{array}$	$\begin{array}{c} 0 \\ 0 \end{array}$	$\stackrel{2}{0}$	$\begin{array}{c} 6 \\ 0 \end{array}$	$\begin{array}{c} 6 \\ 0 \end{array}$
	12	38	98	$\overset{0}{1}$	1	1	$\overset{\mathtt{o}}{4}$
	$\frac{13}{14}$	$\frac{23}{56}$	58 100	$\frac{1}{1}$	$\frac{2}{1}$	6	6
	$\frac{14}{15}$	30 31	$\begin{array}{c} 190 \\ 125 \end{array}$	0	$\overset{1}{3}$	$\frac{1}{5}$	6
30	1	46	72	$\overset{\circ}{4}$	$\tilde{6}$	$\tilde{6}$	$\tilde{6}$
	$\frac{2}{3}$	38 50	85 54	$\frac{2}{4}$	4 5	6 5	6 6
	$\frac{3}{4}$	16	100	1	1	$\overset{5}{1}$	$\stackrel{0}{1}$
	$\frac{5}{c}$	65	$\frac{113}{72}$	$\frac{2}{2}$	3	3	5
	6 7	53 50	$\frac{72}{70}$	$egin{array}{c} 1 \\ 1 \\ 0 \\ 4 \\ 2 \\ 4 \\ 1 \\ 2 \\ 3 \\ 0 \\ 0 \\ \end{array}$	$\frac{4}{5}$	$\frac{4}{5}$	o 5
	8	13	$\dot{8}\ddot{5}$	Ŏ	Õ	6 1 5 6 6 5 1 3 4 5 0	$\check{4}$
	9 10	$\frac{17}{70}$	$\frac{25}{53}$	0 1	() 1		$\frac{0}{4}$
	11	13	45	0	0	$\overset{1}{4}$	6
	$\frac{12}{12}$	60	41	1	1	4	6
	$13 \\ 14 \\ 15 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15$	23 56 31 46 38 59 16 65 53 50 13 17 70 13 60 12 27 56	58 190 125 72 85 54 100 113 72 70 85 25 53 45 41 61 61 106	1 1 3 0	$egin{array}{c} 2 \\ 1 \\ 3 \\ 6 \\ 4 \\ 5 \\ 1 \\ 3 \\ 4 \\ 5 \\ 0 \\ 0 \\ 1 \\ 1 \\ 5 \\ 1 \\ \end{array}$	1 4 4 4 5 1	$ \begin{array}{c} 6 \\ 1 \\ 6 \\ 6 \\ 6 \\ 6 \\ 5 \\ 4 \\ 0 \\ 4 \\ 6 \\ 6 \\ 6 \\ 6 \\ 3 \\ \end{array} $
	15	56	106	0	1	1	3

${\bf SAS~Output}\\ {\bf Model~with~Effects~of~Dosage,~Age,~and~Surgery~Duration}$

Model Information

Data Set	WORK.B
Distribution	Multinomial
Link Function	Cumulative Logit
Dependent Variable	score
Observations Used	240

Class Level Information

Class	Levels	Values
dosage	4	15 20 25 30
id	15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Response Profile

Ordered	Ordered	
Level	Value	Count
1	0	22
2	1	56
3	2	20
4	3	31
5	4	22
6	5	24
7	6	65

GEE Model Information

Correlation Structure		Independent
Subject Effect	id(dosage)	(60 levels)
Number of Clusters		60
Correlation Matrix Dimension		4
Maximum Cluster Size		4
Minimum Cluster Size		4

Analysis Of GEE Parameter Estimates Empirical Standard Error Estimates

		Standard	95% Con	fidence		
Parameter	Estimate	Error	Lim	its	Z	$Pr > \Z\$
Intercept1	-4.3112	0.9266	-6.1274	-2.4950	-4.65	<.0001
Intercept2	-2.7093	0.8806	-4.4352	-0.9833	-3.08	0.0021
Intercept3	-2.3384	0.8864	-4.0757	-0.6012	-2.64	0.0083
Intercept4	-1.8021	0.8717	-3.5106	-0.0937	-2.07	0.0387
Intercept5	-1.4134	0.8790	-3.1361	0.3093	-1.61	0.1078
Intercept6	-0.9361	0.8879	-2.6763	0.8041	-1.05	0.2917
dose	0.0380	0.0297	-0.0203	0.0962	1.28	0.2014
age	0.0139	0.0109	-0.0074	0.0352	1.28	0.2008
durat	0.0071	0.0046	-0.0019	0.0160	1.55	0.1219

${\bf SAS~Output}\\ {\bf Model~with~Effects~of~Dosage,~Age,~Surgery~Duration,~and~Time}$

Model Information

Data Set	WORK.B
Distribution	Multinomial
Link Function	Cumulative Logit
Dependent Variable	score
Observations Used	240

Class Level Information

Class	Levels	Values
dosage	4	15 20 25 30
id	15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Response Profile

Ordered	Ordered	
Level	Value	Count
1	0	22
2	1	56
3	2	20
4	3	31
5	4	22
6	5	24
7	6	65

GEE Model Information

Correlation Structure		Independent
Subject Effect	id(dosage)	(60 levels)
Number of Clusters		60
Correlation Matrix Dimension		4
Maximum Cluster Size		4
Minimum Cluster Size		4

Analysis Of GEE Parameter Estimates Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr > \Z\
Intercept1	-3.9718	1.1295	-6.1856	-1.7579	-3.52	0.0004
Intercept2	-2.1906	1.0759	-4.2993	-0.0819	-2.04	0.0417
Intercept3	-1.7338	1.0841	-3.8587	0.3911	-1.60	0.1098
Intercept4	-1.0291	1.0712	-3.1287	1.0704	-0.96	0.3367
Intercept5	-0.5152	1.0879	-2.6475	1.6171	-0.47	0.6358
Intercept6	0.0914	1.1101	-2.0845	2.2672	0.08	0.9344
dose	0.0428	0.0364	-0.0284	0.1141	1.18	0.2390
age	0.0163	0.0132	-0.0094	0.0421	1.24	0.2141
durat	0.0096	0.0054	-0.0010	0.0203	1.77	0.0771
time	-0.0946	0.0109	-0.1159	-0.0732	-8.66	<.0001