

| Obs | trt | sex | id | visit | y |
|-----|-----|-----|-----|--------|----|
| 1 | 10K | F | 102 | week0 | 60 |
| 2 | 10K | F | 102 | week2 | 26 |
| 3 | 10K | F | 102 | week4 | 27 |
| 4 | 10K | F | 102 | week8 | 41 |
| 5 | 10K | F | 102 | week12 | 65 |
| 6 | 10K | F | 102 | week16 | 67 |
| 7 | 10K | F | 105 | week0 | 53 |
| 8 | 10K | F | 105 | week2 | 35 |
| 9 | 10K | F | 105 | week4 | 48 |
| 10 | 10K | F | 105 | week8 | 49 |
| 11 | 10K | F | 105 | week12 | 41 |
| 12 | 10K | F | 105 | week16 | 51 |
| 223 | 5K | F | 101 | week0 | 32 |
| 224 | 5K | F | 101 | week2 | 30 |
| 225 | 5K | F | 101 | week4 | 24 |
| 226 | 5K | F | 101 | week8 | 37 |
| 227 | 5K | F | 101 | week12 | 39 |
| 228 | 5K | F | 101 | week16 | 36 |
| 229 | 5K | F | 103 | week0 | 44 |
| 230 | 5K | F | 103 | week2 | 20 |
| 231 | 5K | F | 103 | week4 | 23 |
| 232 | 5K | F | 103 | week8 | 26 |
| 233 | 5K | F | 103 | week12 | 35 |
| 234 | 5K | F | 103 | week16 | 35 |
| 439 | Pbo | F | 104 | week0 | 53 |
| 440 | Pbo | F | 104 | week2 | 61 |
| 441 | Pbo | F | 104 | week4 | 64 |
| 442 | Pbo | F | 104 | week8 | 62 |
| 443 | Pbo | F | 104 | week12 | . |
| 444 | Pbo | F | 104 | week16 | . |

The Mixed Procedure

Class Level Information

| Class | Levels | Values |
|-------|--------|--|
| id | 109 | 101 102 103 104 105 106 107 108 109 110 111 112 201 202 203 204 205 206 207 208 209 210 211 212 213 214 301 302 303 304 305 306 307 308 309 310 311 312 401 402 403 404 405 406 407 408 501 502 503 504 505 506 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 701 702 703 704 705 706 707 708 709 710 711 712 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 901 902 903 904 905 906 907 908 909 910 911 |
| sex | 2 | F M |
| trt | 3 | 10K 5K Pbo |
| time | 6 | 0 2 4 8 12 16 |

Convergence criteria met.

Covariance Parameter Estimates

| Cov Parm | Subject | Estimate | Standard Error | Z Value | Pr > Z |
|----------|---------|----------|----------------|---------|--------|
| UN(1,1) | id | 91.4604 | 12.7446 | 7.18 | <.0001 |
| UN(2,1) | id | 86.1199 | 14.3656 | 5.99 | <.0001 |
| UN(2,2) | id | 149.87 | 21.0372 | 7.12 | <.0001 |
| UN(3,1) | id | 75.9567 | 13.5140 | 5.62 | <.0001 |
| UN(3,2) | id | 121.80 | 18.8927 | 6.45 | <.0001 |
| UN(3,3) | id | 140.67 | 19.9690 | 7.04 | <.0001 |
| UN(4,1) | id | 87.6819 | 14.7013 | 5.96 | <.0001 |
| UN(4,2) | id | 110.90 | 18.7901 | 5.90 | <.0001 |
| UN(4,3) | id | 91.8507 | 17.4033 | 5.28 | <.0001 |
| UN(4,4) | id | 156.98 | 22.1093 | 7.10 | <.0001 |
| UN(5,1) | id | 97.9556 | 15.6586 | 6.26 | <.0001 |
| UN(5,2) | id | 123.41 | 20.0056 | 6.17 | <.0001 |
| UN(5,3) | id | 107.22 | 18.7545 | 5.72 | <.0001 |
| UN(5,4) | id | 132.98 | 20.8967 | 6.36 | <.0001 |
| UN(5,5) | id | 170.98 | 23.8697 | 7.16 | <.0001 |
| UN(6,1) | id | 100.24 | 16.2033 | 6.19 | <.0001 |
| UN(6,2) | id | 139.61 | 21.4794 | 6.50 | <.0001 |
| UN(6,3) | id | 113.78 | 19.6026 | 5.80 | <.0001 |

Model M1. Unstructured var-cov matrix and saturated mean
Baseline strategy 1

3

The Mixed Procedure

Covariance Parameter Estimates

| Cov Parm | Subject | Estimate | Standard Error | Z Value | Pr Z |
|----------|---------|----------|----------------|---------|--------|
| UN(6,4) | id | 127.06 | 21.0991 | 6.02 | <.0001 |
| UN(6,5) | id | 154.73 | 23.2527 | 6.65 | <.0001 |
| UN(6,6) | id | 184.29 | 25.8042 | 7.14 | <.0001 |

Fit Statistics

| | |
|--------------------------|--------|
| -2 Res Log Likelihood | 4144.1 |
| AIC (smaller is better) | 4186.1 |
| AICC (smaller is better) | 4187.7 |
| BIC (smaller is better) | 4242.6 |

Type 3 Tests of Fixed Effects

| Effect | Num DF | Den DF | F Value | Pr > F |
|--------------|--------|--------|---------|--------|
| sex | 1 | 104 | 1.61 | 0.2078 |
| trt | 2 | 104 | 0.13 | 0.8773 |
| sex*trt | 2 | 104 | 1.25 | 0.2914 |
| time | 5 | 97.2 | 26.72 | <.0001 |
| sex*time | 5 | 97.2 | 0.67 | 0.6458 |
| trt*time | 10 | 143 | 2.66 | 0.0053 |
| sex*trt*time | 10 | 143 | 0.83 | 0.6019 |

Least Squares Means

| Effect | trt | time | Estimate | Standard Error | DF | t Value | Pr > t |
|----------|-----|------|----------|----------------|-----|---------|---------|
| trt*time | 10K | 0 | 45.4762 | 1.8323 | 103 | 24.82 | <.0001 |
| trt*time | 10K | 2 | 33.9810 | 2.4391 | 105 | 13.93 | <.0001 |
| trt*time | 10K | 4 | 33.3399 | 2.5073 | 103 | 13.30 | <.0001 |
| trt*time | 10K | 8 | 36.7964 | 2.6338 | 106 | 13.97 | <.0001 |
| trt*time | 10K | 12 | 42.9033 | 2.4457 | 113 | 17.54 | <.0001 |
| trt*time | 10K | 16 | 47.7670 | 2.3261 | 104 | 20.54 | <.0001 |
| trt*time | 5K | 0 | 46.4167 | 1.5939 | 103 | 29.12 | <.0001 |
| trt*time | 5K | 2 | 37.1012 | 2.1101 | 103 | 17.58 | <.0001 |
| trt*time | 5K | 4 | 37.1343 | 2.1853 | 103 | 16.99 | <.0001 |
| trt*time | 5K | 8 | 39.4295 | 2.2686 | 103 | 17.38 | <.0001 |
| trt*time | 5K | 12 | 42.9167 | 2.0404 | 102 | 21.03 | <.0001 |
| trt*time | 5K | 16 | 45.4228 | 1.9858 | 100 | 22.87 | <.0001 |
| trt*time | Pbo | 0 | 43.0810 | 1.6165 | 103 | 26.65 | <.0001 |
| trt*time | Pbo | 2 | 39.6358 | 2.1752 | 107 | 18.22 | <.0001 |

Model M1. Unstructured var-cov matrix and saturated mean
Baseline strategy 1

4

The Mixed Procedure

Least Squares Means

| Effect | trt | time | Estimate | Standard Error | DF | t Value | Pr > t |
|----------|-----|------|----------|-------------------|-----|---------|---------|
| trt*time | Pbo | 4 | 38.9422 | 2.2283 | 105 | 17.48 | <.0001 |
| trt*time | Pbo | 8 | 40.8919 | 2.3143 | 104 | 17.67 | <.0001 |
| trt*time | Pbo | 12 | 41.6718 | 2.0955 | 104 | 19.89 | <.0001 |
| trt*time | Pbo | 16 | 42.6676 | 2.0382 | 102 | 20.93 | <.0001 |

The Mixed Procedure

Class Level Information

| Class | Levels | Values |
|-------|--------|------------|
| sex | 2 | F M |
| trt | 3 | 10K 5K Pbo |
| visit | 5 | 1 2 3 4 5 |

Convergence criteria met.

Covariance Parameter Estimates

| Cov Parm | Subject | Estimate |
|----------|---------|----------|
| UN(1,1) | id | 72.9354 |
| UN(2,1) | id | 38.7321 |
| UN(2,2) | id | 66.6028 |
| UN(3,1) | id | 30.0109 |
| UN(3,2) | id | 48.0876 |
| UN(3,3) | id | 75.4237 |
| UN(4,1) | id | 28.3349 |
| UN(4,2) | id | 30.9013 |
| UN(4,3) | id | 44.8039 |
| UN(4,4) | id | 69.0681 |
| UN(5,1) | id | 19.6308 |
| UN(5,2) | id | 25.0319 |
| UN(5,3) | id | 29.3468 |
| UN(5,4) | id | 51.4492 |
| UN(5,5) | id | 80.6159 |

Fit Statistics

| | |
|--------------------------|--------|
| -2 Res Log Likelihood | 3377.8 |
| AIC (smaller is better) | 3407.8 |
| AICC (smaller is better) | 3408.8 |
| BIC (smaller is better) | 3448.2 |

Type 3 Tests of Fixed Effects

| Effect | Num DF | Den DF | F Value | Pr > F |
|-----------|-----------|-----------|---------|--------|
| sex | 1 | 102 | 1.08 | 0.3019 |
| trt | 2 | 102 | 4.00 | 0.0213 |
| sex*trt | 2 | 102 | 0.36 | 0.7002 |
| visit | 4 | 97.5 | 18.99 | <.0001 |
| sex*visit | 4 | 97.5 | 0.48 | 0.7522 |

The Mixed Procedure

Type 3 Tests of Fixed Effects

| Effect | Num DF | Den DF | F Value | Pr > F |
|---------------|-----------|-----------|---------|--------|
| trt*visit | 8 | 136 | 2.28 | 0.0257 |
| sex*trt*visit | 8 | 136 | 0.85 | 0.5602 |

The Mixed Procedure

Convergence criteria met.

Covariance Parameter Estimates

| Cov Parm | Subject | Estimate |
|----------|---------|----------|
| UN(1,1) | id | 72.9354 |
| UN(2,1) | id | 38.7321 |
| UN(2,2) | id | 66.6028 |
| UN(3,1) | id | 30.0109 |
| UN(3,2) | id | 48.0876 |
| UN(3,3) | id | 75.4237 |
| UN(4,1) | id | 28.3349 |
| UN(4,2) | id | 30.9013 |
| UN(4,3) | id | 44.8039 |
| UN(4,4) | id | 69.0681 |
| UN(5,1) | id | 19.6308 |
| UN(5,2) | id | 25.0319 |
| UN(5,3) | id | 29.3468 |
| UN(5,4) | id | 51.4492 |
| UN(5,5) | id | 80.6159 |

Fit Statistics

| | |
|--------------------------|--------|
| -2 Res Log Likelihood | 3439.9 |
| AIC (smaller is better) | 3469.9 |
| AICC (smaller is better) | 3470.9 |
| BIC (smaller is better) | 3510.2 |

Solution for Fixed Effects

| Effect | Estimate | Standard Error | DF | t Value | Pr > t |
|----------------------|----------|----------------|------|---------|---------|
| Intercept | -4.9465 | 0.6725 | 102 | -7.36 | <.0001 |
| sexdummy | 0.6978 | 0.6725 | 102 | 1.04 | 0.3019 |
| trtdummy1 | -1.5786 | 0.9959 | 104 | -1.59 | 0.1160 |
| sexdummy*trtdummy1 | -0.7583 | 0.9959 | 104 | -0.76 | 0.4481 |
| visitdummy1 | -3.0925 | 0.6705 | 97.7 | -4.61 | <.0001 |
| sexdummy*visitdummy1 | 0.1694 | 0.6705 | 97.7 | 0.25 | 0.8011 |
| trtdummy1*visitdummy | -1.7785 | 0.9938 | 99.5 | -1.79 | 0.0766 |
| sexdum*trtdum*visitd | -1.1834 | 0.9938 | 99.5 | -1.19 | 0.2366 |
| visitdummy2 | -3.5749 | 0.5246 | 103 | -6.81 | <.0001 |
| sexdummy*visitdummy2 | 0.3754 | 0.5246 | 103 | 0.72 | 0.4759 |
| trtdummy1*visitdummy | -2.0379 | 0.7792 | 105 | -2.62 | 0.0102 |
| sexdum*trtdum*visitd | -0.8436 | 0.7792 | 105 | -1.08 | 0.2814 |
| visitdummy3 | -1.0105 | 0.5443 | 97.1 | -1.86 | 0.0664 |
| sexdummy*visitdummy3 | -0.5970 | 0.5443 | 97.1 | -1.10 | 0.2754 |

The Mixed Procedure

Solution for Fixed Effects

| Effect | Estimate | Standard Error | DF | t Value | Pr > t |
|----------------------|----------|----------------|------|---------|---------|
| trtdummy1*visitdummy | -1.1550 | 0.8140 | 98.4 | -1.42 | 0.1591 |
| sexdum*trtdum*visitd | -0.2839 | 0.8140 | 98.4 | -0.35 | 0.7281 |
| visitdummy4 | 2.4478 | 0.5062 | 101 | 4.84 | <.0001 |
| sexdummy*visitdummy4 | -0.07371 | 0.5062 | 101 | -0.15 | 0.8845 |
| trtdummy1*visitdummy | 1.4816 | 0.7769 | 103 | 1.91 | 0.0593 |
| sexdum*trtdum*visitd | 1.4315 | 0.7769 | 103 | 1.84 | 0.0683 |
| trtdummy2 | -1.0662 | 0.9199 | 101 | -1.16 | 0.2491 |
| sexdummy*trtdummy2 | 0.6561 | 0.9199 | 101 | 0.71 | 0.4773 |
| visitdummy*trtdummy2 | -0.2186 | 0.9138 | 96.5 | -0.24 | 0.8114 |
| sexdum*visitd*trtdum | 1.2641 | 0.9138 | 96.5 | 1.38 | 0.1698 |
| visitdummy*trtdummy2 | 0.2923 | 0.7183 | 102 | 0.41 | 0.6849 |
| sexdum*visitd*trtdum | 0.5309 | 0.7183 | 102 | 0.74 | 0.4615 |
| visitdummy*trtdummy2 | 0.02144 | 0.7422 | 96.4 | 0.03 | 0.9770 |
| sexdum*visitd*trtdum | -0.4774 | 0.7422 | 96.4 | -0.64 | 0.5215 |
| visitdummy*trtdummy2 | 0.06490 | 0.6768 | 100 | 0.10 | 0.9238 |
| sexdum*visitd*trtdum | -1.3913 | 0.6768 | 100 | -2.06 | 0.0424 |

Type 3 Tests of Fixed Effects

| Effect | Num DF | Den DF | F Value | Pr > F |
|----------------------|--------|--------|---------|--------|
| sexdummy | 1 | 102 | 1.08 | 0.3019 |
| trtdummy1 | 1 | 104 | 2.51 | 0.1160 |
| sexdummy*trtdummy1 | 1 | 104 | 0.58 | 0.4481 |
| visitdummy1 | 1 | 97.7 | 21.27 | <.0001 |
| sexdummy*visitdummy1 | 1 | 97.7 | 0.06 | 0.8011 |
| trtdummy1*visitdummy | 1 | 99.5 | 3.20 | 0.0766 |
| sexdum*trtdum*visitd | 1 | 99.5 | 1.42 | 0.2366 |
| visitdummy2 | 1 | 103 | 46.43 | <.0001 |
| sexdummy*visitdummy2 | 1 | 103 | 0.51 | 0.4759 |
| trtdummy1*visitdummy | 1 | 105 | 6.84 | 0.0102 |
| sexdum*trtdum*visitd | 1 | 105 | 1.17 | 0.2814 |
| visitdummy3 | 1 | 97.1 | 3.45 | 0.0664 |
| sexdummy*visitdummy3 | 1 | 97.1 | 1.20 | 0.2754 |
| trtdummy1*visitdummy | 1 | 98.4 | 2.01 | 0.1591 |
| sexdum*trtdum*visitd | 1 | 98.4 | 0.12 | 0.7281 |
| visitdummy4 | 1 | 101 | 23.38 | <.0001 |
| sexdummy*visitdummy4 | 1 | 101 | 0.02 | 0.8845 |
| trtdummy1*visitdummy | 1 | 103 | 3.64 | 0.0593 |
| sexdum*trtdum*visitd | 1 | 103 | 3.40 | 0.0683 |
| trtdummy2 | 1 | 101 | 1.34 | 0.2491 |
| sexdummy*trtdummy2 | 1 | 101 | 0.51 | 0.4773 |
| visitdummy*trtdummy2 | 1 | 96.5 | 0.06 | 0.8114 |
| sexdum*visitd*trtdum | 1 | 96.5 | 1.91 | 0.1698 |

The Mixed Procedure

Type 3 Tests of Fixed Effects

| Effect | Num | Den | F Value | Pr > F |
|----------------------|-----|------|---------|--------|
| | DF | DF | | |
| visitdummy*trtdummy2 | 1 | 102 | 0.17 | 0.6849 |
| sexdum*visitd*trtdum | 1 | 102 | 0.55 | 0.4615 |
| visitdummy*trtdummy2 | 1 | 96.4 | 0.00 | 0.9770 |
| sexdum*visitd*trtdum | 1 | 96.4 | 0.41 | 0.5215 |
| visitdummy*trtdummy2 | 1 | 100 | 0.01 | 0.9238 |
| sexdum*visitd*trtdum | 1 | 100 | 4.23 | 0.0424 |

Contrasts

| Label | Num | Den | F Value | Pr > F |
|--------------|-----|------|---------|--------|
| | DF | DF | | |
| sex*time | 5 | 97.2 | 0.64 | 0.6714 |
| trt*time | 10 | 142 | 2.64 | 0.0056 |
| sex*trt*time | 10 | 142 | 0.80 | 0.6263 |

The Mixed Procedure

Class Level Information

| Class | Levels | Values | | |
|---------------------|--------|-----------------------------|----|------------------------------|
| id | 109 | 101 102 103 104 105 106 107 | | |
| | | 108 109 110 111 112 201 202 | | |
| | | 203 204 205 206 207 208 209 | | |
| | | 210 211 212 213 214 301 302 | | |
| | | 303 304 305 306 307 308 309 | | |
| | | 310 311 312 401 402 403 404 | | |
| | | 405 406 407 408 501 502 503 | | |
| | | 504 505 506 601 602 603 604 | | |
| | | 605 606 607 608 609 610 611 | | |
| | | 612 613 614 615 701 702 703 | | |
| | | 704 705 706 707 708 709 710 | | |
| | | 711 712 801 802 803 804 805 | | |
| | | 806 807 808 809 810 811 812 | | |
| | | 813 814 815 816 817 818 819 | | |
| | | 901 902 903 904 905 906 907 | | |
| | | 908 909 910 911 | | |
| | | sextrtvisalt | 31 | baseline sextrtvisF10Kweek12 |
| | | | | sextrtvisF10Kweek16 |
| | | | | sextrtvisF10Kweek2 |
| sextrtvisF10Kweek4 | | | | |
| sextrtvisF10Kweek8 | | | | |
| sextrtvisF5Kweek12 | | | | |
| sextrtvisF5Kweek16 | | | | |
| sextrtvisF5Kweek2 | | | | |
| sextrtvisF5Kweek4 | | | | |
| sextrtvisF5Kweek8 | | | | |
| sextrtvisFPbweek12 | | | | |
| sextrtvisFPbweek16 | | | | |
| sextrtvisFPbweek2 | | | | |
| sextrtvisFPbweek4 | | | | |
| sextrtvisFPbweek8 | | | | |
| sextrtvisM10Kweek12 | | | | |
| sextrtvisM10Kweek16 | | | | |
| sextrtvisM10Kweek2 | | | | |
| sextrtvisM10Kweek4 | | | | |
| sextrtvisM10Kweek8 | | | | |
| sextrtvisM5Kweek12 | | | | |
| sextrtvisM5Kweek16 | | | | |
| sextrtvisM5Kweek2 | | | | |
| sextrtvisM5Kweek4 | | | | |
| sextrtvisM5Kweek8 | | | | |
| sextrtvisMPbweek12 | | | | |
| sextrtvisMPbweek16 | | | | |
| sextrtvisMPbweek2 | | | | |
| sextrtvisMPbweek4 | | | | |
| sextrtvisMPbweek8 | | | | |

The Mixed Procedure

Convergence criteria met.

Covariance Parameter Estimates

| Cov Parm | Subject | Estimate | Standard Error | Z Value | Pr > Z |
|----------|---------|----------|----------------|---------|--------|
| UN(1,1) | id | 94.3399 | 12.8380 | 7.35 | <.0001 |
| UN(2,1) | id | 88.8307 | 14.5765 | 6.09 | <.0001 |
| UN(2,2) | id | 152.42 | 21.4117 | 7.12 | <.0001 |
| UN(3,1) | id | 78.3476 | 13.7401 | 5.70 | <.0001 |
| UN(3,2) | id | 124.05 | 19.2279 | 6.45 | <.0001 |
| UN(3,3) | id | 142.65 | 20.3097 | 7.02 | <.0001 |
| UN(4,1) | id | 90.4418 | 14.9197 | 6.06 | <.0001 |
| UN(4,2) | id | 113.50 | 19.1125 | 5.94 | <.0001 |
| UN(4,3) | id | 94.1429 | 17.6976 | 5.32 | <.0001 |
| UN(4,4) | id | 159.63 | 22.5045 | 7.09 | <.0001 |
| UN(5,1) | id | 101.04 | 15.8649 | 6.37 | <.0001 |
| UN(5,2) | id | 126.31 | 20.3499 | 6.21 | <.0001 |
| UN(5,3) | id | 109.78 | 19.0805 | 5.75 | <.0001 |
| UN(5,4) | id | 135.94 | 21.2620 | 6.39 | <.0001 |
| UN(5,5) | id | 174.28 | 24.2927 | 7.17 | <.0001 |
| UN(6,1) | id | 103.39 | 16.4235 | 6.30 | <.0001 |
| UN(6,2) | id | 142.58 | 21.8574 | 6.52 | <.0001 |
| UN(6,3) | id | 116.40 | 19.9461 | 5.84 | <.0001 |
| UN(6,4) | id | 130.08 | 21.4573 | 6.06 | <.0001 |
| UN(6,5) | id | 158.11 | 23.6587 | 6.68 | <.0001 |
| UN(6,6) | id | 187.75 | 26.2667 | 7.15 | <.0001 |

Fit Statistics

| | |
|--------------------------|--------|
| -2 Res Log Likelihood | 4171.8 |
| AIC (smaller is better) | 4213.8 |
| AICC (smaller is better) | 4215.4 |
| BIC (smaller is better) | 4270.3 |

Type 3 Tests of Fixed Effects

| Effect | Num DF | Den DF | F Value | Pr > F |
|--------------|--------|--------|---------|--------|
| sextrtvisalt | 31 | 245 | 90.43 | <.0001 |

The Mixed Procedure

Contrasts

| Label | Num DF | Den DF | F Value | Pr > F |
|-----------------------------|-----------|-----------|---------|--------|
| post-baseline sex | 1 | 102 | 0.94 | 0.3336 |
| post-baseline trt | 2 | 102 | 3.77 | 0.0262 |
| post-baseline visit | 4 | 97.8 | 18.59 | <.0001 |
| post-baseline sex*trt | 2 | 102 | 0.39 | 0.6796 |
| post-baseline sex*visit | 4 | 97.1 | 0.46 | 0.7637 |
| post-baseline trt*visit | 8 | 136 | 2.63 | 0.0105 |
| post-baseline sex*trt*visit | 8 | 136 | 0.95 | 0.4807 |
| full sex*visit | 5 | 96.9 | 0.58 | 0.7119 |
| full trt*visit | 10 | 142 | 2.82 | 0.0032 |
| full sex*trt*visit | 10 | 142 | 0.89 | 0.5418 |

The Mixed Procedure

Class Level Information

| Class | Levels | Values | | |
|---------------------|--------|-----------------------------|----|---------------------|
| id | 109 | 101 102 103 104 105 106 107 | | |
| | | 108 109 110 111 112 201 202 | | |
| | | 203 204 205 206 207 208 209 | | |
| | | 210 211 212 213 214 301 302 | | |
| | | 303 304 305 306 307 308 309 | | |
| | | 310 311 312 401 402 403 404 | | |
| | | 405 406 407 408 501 502 503 | | |
| | | 504 505 506 601 602 603 604 | | |
| | | 605 606 607 608 609 610 611 | | |
| | | 612 613 614 615 701 702 703 | | |
| | | 704 705 706 707 708 709 710 | | |
| | | 711 712 801 802 803 804 805 | | |
| | | 806 807 808 809 810 811 812 | | |
| | | 813 814 815 816 817 818 819 | | |
| | | 901 902 903 904 905 906 907 | | |
| | | 908 909 910 911 | | |
| | | sextrtvisalt2 | 32 | baselineF baselineM |
| | | | | sextrtvisF10Kweek12 |
| | | | | sextrtvisF10Kweek16 |
| sextrtvisF10Kweek2 | | | | |
| sextrtvisF10Kweek4 | | | | |
| sextrtvisF10Kweek8 | | | | |
| sextrtvisF5Kweek12 | | | | |
| sextrtvisF5Kweek16 | | | | |
| sextrtvisF5Kweek2 | | | | |
| sextrtvisF5Kweek4 | | | | |
| sextrtvisF5Kweek8 | | | | |
| sextrtvisFPbweek12 | | | | |
| sextrtvisFPbweek16 | | | | |
| sextrtvisFPbweek2 | | | | |
| sextrtvisFPbweek4 | | | | |
| sextrtvisFPbweek8 | | | | |
| sextrtvisM10Kweek12 | | | | |
| sextrtvisM10Kweek16 | | | | |
| sextrtvisM10Kweek2 | | | | |
| sextrtvisM10Kweek4 | | | | |
| sextrtvisM10Kweek8 | | | | |
| sextrtvisM5Kweek12 | | | | |
| sextrtvisM5Kweek16 | | | | |
| sextrtvisM5Kweek2 | | | | |
| sextrtvisM5Kweek4 | | | | |
| sextrtvisM5Kweek8 | | | | |
| sextrtvisMPbweek12 | | | | |
| sextrtvisMPbweek16 | | | | |
| sextrtvisMPbweek2 | | | | |
| sextrtvisMPbweek4 | | | | |
| sextrtvisMPbweek8 | | | | |

The Mixed Procedure

Convergence criteria met.

Covariance Parameter Estimates

| Cov Parm | Subject | Estimate | Standard Error | Z Value | Pr Z |
|----------|---------|----------|----------------|---------|--------|
| UN(1,1) | id | 91.6474 | 12.5297 | 7.31 | <.0001 |
| UN(2,1) | id | 86.2959 | 14.2060 | 6.07 | <.0001 |
| UN(2,2) | id | 150.04 | 20.9569 | 7.16 | <.0001 |
| UN(3,1) | id | 76.1120 | 13.3855 | 5.69 | <.0001 |
| UN(3,2) | id | 121.95 | 18.8238 | 6.48 | <.0001 |
| UN(3,3) | id | 140.79 | 19.9244 | 7.07 | <.0001 |
| UN(4,1) | id | 87.8611 | 14.5399 | 6.04 | <.0001 |
| UN(4,2) | id | 111.07 | 18.6895 | 5.94 | <.0001 |
| UN(4,3) | id | 91.9996 | 17.3204 | 5.31 | <.0001 |
| UN(4,4) | id | 157.15 | 22.0279 | 7.13 | <.0001 |
| UN(5,1) | id | 98.1559 | 15.4661 | 6.35 | <.0001 |
| UN(5,2) | id | 123.60 | 19.8856 | 6.22 | <.0001 |
| UN(5,3) | id | 107.39 | 18.6575 | 5.76 | <.0001 |
| UN(5,4) | id | 133.17 | 20.7790 | 6.41 | <.0001 |
| UN(5,5) | id | 171.19 | 23.7427 | 7.21 | <.0001 |
| UN(6,1) | id | 100.44 | 16.0094 | 6.27 | <.0001 |
| UN(6,2) | id | 139.81 | 21.3651 | 6.54 | <.0001 |
| UN(6,3) | id | 113.95 | 19.5065 | 5.84 | <.0001 |
| UN(6,4) | id | 127.25 | 20.9757 | 6.07 | <.0001 |
| UN(6,5) | id | 154.95 | 23.1130 | 6.70 | <.0001 |
| UN(6,6) | id | 184.52 | 25.6777 | 7.19 | <.0001 |

Fit Statistics

| | |
|--------------------------|--------|
| -2 Res Log Likelihood | 4164.6 |
| AIC (smaller is better) | 4206.6 |
| AICC (smaller is better) | 4208.2 |
| BIC (smaller is better) | 4263.1 |

Type 3 Tests of Fixed Effects

| Effect | Num DF | Den DF | F Value | Pr > F |
|---------------|--------|--------|---------|--------|
| sextrtvisalt2 | 32 | 251 | 89.66 | <.0001 |

The Mixed Procedure

Contrasts

| Label | Num | Den | F Value | Pr > F |
|--------------------|-----|------|---------|--------|
| | DF | DF | | |
| full sex*visit | 5 | 97.4 | 0.67 | 0.6493 |
| full trt*visit | 10 | 142 | 2.83 | 0.0031 |
| full sex*trt*visit | 10 | 142 | 0.89 | 0.5413 |

The Mixed Procedure

Class Level Information

| Class | Levels | Values |
|-------|--------|------------|
| sex | 2 | F M |
| trt | 3 | 10K 5K Pbo |
| visit | 5 | 1 2 3 4 5 |

Convergence criteria met.

Covariance Parameter Estimates

| Cov Parm | Subject | Estimate |
|----------|---------|----------|
| UN(1,1) | id | 73.6701 |
| UN(2,1) | id | 39.4625 |
| UN(2,2) | id | 66.7293 |
| UN(3,1) | id | 31.2685 |
| UN(3,2) | id | 47.8459 |
| UN(3,3) | id | 75.1889 |
| UN(4,1) | id | 28.6255 |
| UN(4,2) | id | 31.4814 |
| UN(4,3) | id | 45.6784 |
| UN(4,4) | id | 69.4749 |
| UN(5,1) | id | 19.2212 |
| UN(5,2) | id | 26.1251 |
| UN(5,3) | id | 30.8370 |
| UN(5,4) | id | 50.7863 |
| UN(5,5) | id | 78.3699 |

Fit Statistics

| | |
|--------------------------|--------|
| -2 Res Log Likelihood | 3386.8 |
| AIC (smaller is better) | 3416.8 |
| AICC (smaller is better) | 3417.8 |
| BIC (smaller is better) | 3457.2 |

Type 3 Tests of Fixed Effects

| Effect | Num DF | Den DF | F Value | Pr > F |
|----------|-----------|-----------|---------|--------|
| y0 | 1 | 99.7 | 209.90 | <.0001 |
| y0*visit | 4 | 93 | 1.99 | 0.1030 |
| sex | 1 | 101 | 0.92 | 0.3399 |
| trt | 2 | 101 | 3.74 | 0.0270 |
| sex*trt | 2 | 101 | 0.39 | 0.6799 |

The Mixed Procedure

Type 3 Tests of Fixed Effects

| Effect | Num DF | Den DF | F Value | Pr > F |
|---------------|-----------|-----------|---------|--------|
| visit | 4 | 92.4 | 4.72 | 0.0016 |
| sex*visit | 4 | 95.9 | 0.45 | 0.7708 |
| trt*visit | 8 | 134 | 2.61 | 0.0109 |
| sex*trt*visit | 8 | 135 | 0.94 | 0.4858 |

The Mixed Procedure

Convergence criteria met.

Covariance Parameter Estimates

| Cov Parm | Subject | Estimate |
|----------|---------|----------|
| UN(1,1) | id | 73.6701 |
| UN(2,1) | id | 39.4625 |
| UN(2,2) | id | 66.7293 |
| UN(3,1) | id | 31.2685 |
| UN(3,2) | id | 47.8459 |
| UN(3,3) | id | 75.1889 |
| UN(4,1) | id | 28.6255 |
| UN(4,2) | id | 31.4814 |
| UN(4,3) | id | 45.6784 |
| UN(4,4) | id | 69.4749 |
| UN(5,1) | id | 19.2212 |
| UN(5,2) | id | 26.1251 |
| UN(5,3) | id | 30.8370 |
| UN(5,4) | id | 50.7863 |
| UN(5,5) | id | 78.3699 |

Fit Statistics

| | |
|--------------------------|--------|
| -2 Res Log Likelihood | 3452.1 |
| AIC (smaller is better) | 3482.1 |
| AICC (smaller is better) | 3483.1 |
| BIC (smaller is better) | 3522.4 |

Solution for Fixed Effects

| Effect | Estimate | Standard Error | DF | t Value | Pr > t |
|----------------------|----------|----------------|------|---------|---------|
| Intercept | -4.0308 | 3.1186 | 99.7 | -1.29 | 0.1992 |
| y0 | 0.9795 | 0.06761 | 99.7 | 14.49 | <.0001 |
| y0*visitdummy1 | -0.02087 | 0.06603 | 94.2 | -0.32 | 0.7527 |
| y0*visitdummy2 | 0.09146 | 0.05174 | 99 | 1.77 | 0.0802 |
| y0*visitdummy3 | 0.1164 | 0.05326 | 93.5 | 2.19 | 0.0313 |
| y0*visitdummy4 | -0.03794 | 0.04893 | 97.3 | -0.78 | 0.4400 |
| sexdummy | 0.6592 | 0.6875 | 101 | 0.96 | 0.3399 |
| trtdummy1 | -1.5575 | 1.0006 | 103 | -1.56 | 0.1226 |
| sexdummy*trtdummy1 | -0.7834 | 1.0014 | 103 | -0.78 | 0.4358 |
| visitdummy1 | -2.1952 | 3.0319 | 94 | -0.72 | 0.4708 |
| visitdummy1*sexdummy | 0.07937 | 0.6861 | 97.3 | 0.12 | 0.9081 |
| visitdummy*trtdummy1 | -1.8323 | 0.9947 | 99.1 | -1.84 | 0.0685 |
| visitd*sexdum*trtdum | -1.2451 | 0.9979 | 99.1 | -1.25 | 0.2150 |
| visitdummy2 | -7.6828 | 2.3845 | 98.8 | -3.22 | 0.0017 |

The Mixed Procedure

Solution for Fixed Effects

| Effect | Estimate | Standard Error | DF | t Value | Pr > t |
|----------------------|----------|----------------|------|---------|---------|
| visitdummy2*sexdummy | 0.5563 | 0.5297 | 101 | 1.05 | 0.2961 |
| visitdummy*trtdummy1 | -2.0941 | 0.7736 | 104 | -2.71 | 0.0079 |
| visitd*sexdum*trtdum | -0.7630 | 0.7738 | 104 | -0.99 | 0.3265 |
| visitdummy3 | -6.2384 | 2.4548 | 93 | -2.54 | 0.0127 |
| visitdummy3*sexdummy | -0.3924 | 0.5406 | 94.5 | -0.73 | 0.4697 |
| visitdummy*trtdummy1 | -1.2168 | 0.7982 | 95.9 | -1.52 | 0.1307 |
| visitd*sexdum*trtdum | -0.2042 | 0.7981 | 95.9 | -0.26 | 0.7986 |
| visitdummy4 | 4.1642 | 2.2551 | 96.9 | 1.85 | 0.0679 |
| visitdummy4*sexdummy | -0.1364 | 0.5170 | 100 | -0.26 | 0.7925 |
| visitdummy*trtdummy1 | 1.5071 | 0.7807 | 102 | 1.93 | 0.0563 |
| visitd*sexdum*trtdum | 1.4166 | 0.7819 | 102 | 1.81 | 0.0730 |
| trtdummy2 | -1.0354 | 0.9284 | 100 | -1.12 | 0.2674 |
| sexdummy*trtdummy2 | 0.7034 | 0.9316 | 100 | 0.76 | 0.4520 |
| visitdummy*trtdummy2 | -0.1359 | 0.9226 | 96.3 | -0.15 | 0.8832 |
| visitd*sexdum*trtdum | 1.3478 | 0.9266 | 96.3 | 1.45 | 0.1491 |
| visitdummy*trtdummy2 | 0.1710 | 0.7154 | 101 | 0.24 | 0.8116 |
| visitd*sexdum*trtdum | 0.3641 | 0.7176 | 101 | 0.51 | 0.6130 |
| visitdummy*trtdummy2 | -0.1364 | 0.7304 | 94.2 | -0.19 | 0.8522 |
| visitd*sexdum*trtdum | -0.6921 | 0.7320 | 94.1 | -0.95 | 0.3469 |
| visitdummy*trtdummy2 | 0.1127 | 0.6834 | 99.1 | 0.16 | 0.8694 |
| visitd*sexdum*trtdum | -1.3455 | 0.6855 | 99.2 | -1.96 | 0.0525 |

Type 3 Tests of Fixed Effects

| Effect | Num DF | Den DF | F Value | Pr > F |
|----------------------|--------|--------|---------|--------|
| y0 | 1 | 99.7 | 209.90 | <.0001 |
| y0*visitdummy1 | 1 | 94.2 | 0.10 | 0.7527 |
| y0*visitdummy2 | 1 | 99 | 3.12 | 0.0802 |
| y0*visitdummy3 | 1 | 93.5 | 4.78 | 0.0313 |
| y0*visitdummy4 | 1 | 97.3 | 0.60 | 0.4400 |
| sexdummy | 1 | 101 | 0.92 | 0.3399 |
| trtdummy1 | 1 | 103 | 2.42 | 0.1226 |
| sexdummy*trtdummy1 | 1 | 103 | 0.61 | 0.4358 |
| visitdummy1 | 1 | 94 | 0.52 | 0.4708 |
| visitdummy1*sexdummy | 1 | 97.3 | 0.01 | 0.9081 |
| visitdummy*trtdummy1 | 1 | 99.1 | 3.39 | 0.0685 |
| visitd*sexdum*trtdum | 1 | 99.1 | 1.56 | 0.2150 |
| visitdummy2 | 1 | 98.8 | 10.38 | 0.0017 |
| visitdummy2*sexdummy | 1 | 101 | 1.10 | 0.2961 |
| visitdummy*trtdummy1 | 1 | 104 | 7.33 | 0.0079 |
| visitd*sexdum*trtdum | 1 | 104 | 0.97 | 0.3265 |
| visitdummy3 | 1 | 93 | 6.46 | 0.0127 |
| visitdummy3*sexdummy | 1 | 94.5 | 0.53 | 0.4697 |

The Mixed Procedure

Type 3 Tests of Fixed Effects

| Effect | Num DF | Den DF | F Value | Pr > F |
|----------------------|-----------|-----------|---------|--------|
| visitdummy*trtdummy1 | 1 | 95.9 | 2.32 | 0.1307 |
| visitd*sexdum*trtdum | 1 | 95.9 | 0.07 | 0.7986 |
| visitdummy4 | 1 | 96.9 | 3.41 | 0.0679 |
| visitdummy4*sexdummy | 1 | 100 | 0.07 | 0.7925 |
| visitdummy*trtdummy1 | 1 | 102 | 3.73 | 0.0563 |
| visitd*sexdum*trtdum | 1 | 102 | 3.28 | 0.0730 |
| trtdummy2 | 1 | 100 | 1.24 | 0.2674 |
| sexdummy*trtdummy2 | 1 | 100 | 0.57 | 0.4520 |
| visitdummy*trtdummy2 | 1 | 96.3 | 0.02 | 0.8832 |
| visitd*sexdum*trtdum | 1 | 96.3 | 2.12 | 0.1491 |
| visitdummy*trtdummy2 | 1 | 101 | 0.06 | 0.8116 |
| visitd*sexdum*trtdum | 1 | 101 | 0.26 | 0.6130 |
| visitdummy*trtdummy2 | 1 | 94.2 | 0.03 | 0.8522 |
| visitd*sexdum*trtdum | 1 | 94.1 | 0.89 | 0.3469 |
| visitdummy*trtdummy2 | 1 | 99.1 | 0.03 | 0.8694 |
| visitd*sexdum*trtdum | 1 | 99.2 | 3.85 | 0.0525 |

Contrasts

| Label | Num DF | Den DF | F Value | Pr > F |
|--------------|-----------|-----------|---------|--------|
| sex*time | 5 | 95.7 | 0.57 | 0.7232 |
| trt*time | 10 | 141 | 2.81 | 0.0033 |
| sex*trt*time | 10 | 141 | 0.89 | 0.5487 |

Trt by time profile plots for model M1

