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| Random effects approach for rater  The GLIMMIX Procedure   | **Model Information** | | | --- | --- | | **Data Set** | WORK.TEST | | **Response Variable** | y | | **Response Distribution** | Multinomial (ordered) | | **Link Function** | Cumulative Logit | | **Variance Function** | Default | | **Variance Matrix Blocked By** | ID | | **Estimation Technique** | Maximum Likelihood | | **Likelihood Approximation** | Gauss-Hermite Quadrature | | **Degrees of Freedom Method** | Containment |      | **Class Level Information** | | | | --- | --- | --- | | **Class** | **Levels** | **Values** | | **lobe** | 6 | LLL LLS LUS RLL RML RUL | | **rater** | 2 | JW VH |      |  |  | | --- | --- | | **Number of Observations Read** | 1464 | | **Number of Observations Used** | 1464 |      | **Response Profile** | | | | --- | --- | --- | | **Ordered Value** | **y** | **Total Frequency** | | **1** | **0** | 391 | | **2** | **1** | 818 | | **3** | **2** | 217 | | **4** | **3** | 38 | | **The GLIMMIX procedure is modeling the probabilities of levels of y having lower Ordered Values in the Response Profile table.** | | |      | **Dimensions** | | | --- | --- | | **G-side Cov. Parameters** | 2 | | **Columns in X** | 9 | | **Columns in Z per Subject** | 3 | | **Subjects (Blocks in V)** | 244 | | **Max Obs per Subject** | 6 |      | **Optimization Information** | | | --- | --- | | **Optimization Technique** | Dual Quasi-Newton | | **Parameters in Optimization** | 10 | | **Lower Boundaries** | 2 | | **Upper Boundaries** | 0 | | **Fixed Effects** | Not Profiled | | **Starting From** | GLM estimates | | **Quadrature Points** | 5 |      | **Fit Statistics** | | | --- | --- | | **-2 Log Likelihood** | 2576.83 | | **AIC (smaller is better)** | 2596.83 | | **AICC (smaller is better)** | 2596.98 | | **BIC (smaller is better)** | 2631.80 | | **CAIC (smaller is better)** | 2641.80 | | **HQIC (smaller is better)** | 2610.91 |      | **Fit Statistics for Conditional Distribution** | | | --- | --- | | **-2 log L(y | r. effects)** | 1936.31 |      | **Covariance Parameter Estimates** | | | | | --- | --- | --- | --- | | **Cov Parm** | **Subject** | **Estimate** | **Standard Error** | | **Intercept** | **ID** | 3.6508 | 3.1115 | | **rater** | **ID** | 0.5504 | 3.0729 |      | **Solutions for Fixed Effects** | | | | | | | | | --- | --- | --- | --- | --- | --- | --- | --- | | **Effect** | **y** | **lobe** | **Estimate** | **SE** | **DF** | **t Value** | **Pr > |t|** | | **Intercept** | **0** |  | -1.7241 | 0.2047 | 0 | -8.42 | . | | **Intercept** | **1** |  | 2.4821 | 0.2127 | 0 | 11.67 | . | | **Intercept** | **2** |  | 5.3666 | 0.2960 | 0 | 18.13 | . | | **lobe** |  | **LLL** | -0.3708 | 0.1995 | 1213 | -1.86 | 0.0633 | | **lobe** |  | **LLS** | 0.2093 | 0.1996 | 1213 | 1.05 | 0.2946 | | **lobe** |  | **LUS** | 1.2743 | 0.2070 | 1213 | 6.16 | <.0001 | | **lobe** |  | **RLL** | -0.5955 | 0.1980 | 1213 | -3.01 | 0.0027 | | **lobe** |  | **RML** | -0.2292 | 0.2000 | 1213 | -1.15 | 0.2520 | | **lobe** |  | **RUL** | 0 | . | . | . | . |      | **Type III Tests of Fixed Effects** | | | | | | --- | --- | --- | --- | --- | | **Effect** | **Num DF** | **Den DF** | **F Value** | **Pr > F** | | **lobe** | 5 | 1213 | 18.93 | <.0001 | | Fixed effects approach for rater  The GLIMMIX Procedure   | **Model Information** | | | --- | --- | | **Data Set** | WORK.TEST | | **Response Variable** | y | | **Response Distribution** | Multinomial (ordered) | | **Link Function** | Cumulative Logit | | **Variance Function** | Default | | **Variance Matrix Blocked By** | ID | | **Estimation Technique** | Maximum Likelihood | | **Likelihood Approximation** | Gauss-Hermite Quadrature | | **Degrees of Freedom Method** | Containment |      | **Class Level Information** | | | | --- | --- | --- | | **Class** | **Levels** | **Values** | | **lobe** | 6 | LLL LLS LUS RLL RML RUL | | **rater** | 2 | JW VH |      |  |  | | --- | --- | | **Number of Observations Read** | 1464 | | **Number of Observations Used** | 1464 |      | **Response Profile** | | | | --- | --- | --- | | **Ordered Value** | **y** | **Total Frequency** | | **1** | **0** | 391 | | **2** | **1** | 818 | | **3** | **2** | 217 | | **4** | **3** | 38 | | **The GLIMMIX procedure is modeling the probabilities of levels of y having lower Ordered Values in the Response Profile table.** | | |      | **Dimensions** | | | --- | --- | | **G-side Cov. Parameters** | 1 | | **Columns in X** | 11 | | **Columns in Z per Subject** | 1 | | **Subjects (Blocks in V)** | 244 | | **Max Obs per Subject** | 6 |      | **Optimization Information** | | | --- | --- | | **Optimization Technique** | Dual Quasi-Newton | | **Parameters in Optimization** | 10 | | **Lower Boundaries** | 1 | | **Upper Boundaries** | 0 | | **Fixed Effects** | Not Profiled | | **Starting From** | GLM estimates | | **Quadrature Points** | 5 |      | **Fit Statistics** | | | --- | --- | | **-2 Log Likelihood** | 2576.60 | | **AIC (smaller is better)** | 2596.60 | | **AICC (smaller is better)** | 2596.75 | | **BIC (smaller is better)** | 2631.57 | | **CAIC (smaller is better)** | 2641.57 | | **HQIC (smaller is better)** | 2610.69 |      | **Fit Statistics for Conditional Distribution** | | | --- | --- | | **-2 log L(y | r. effects)** | 1936.47 |      | **Covariance Parameter Estimates** | | | | | --- | --- | --- | --- | | **Cov Parm** | **Subject** | **Estimate** | **Standard Error** | | **Intercept** | **ID** | 4.1883 | 0.5563 |      | **Solutions for Fixed Effects** | | | | | | | | | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Effect** | **y** | **lobe** | **rater** | **Estimate** | **Standard Error** | **DF** | **t Value** | **Pr > |t|** | | **Intercept** | **0** |  |  | -1.8381 | 0.2873 | 242 | -6.40 | <.0001 | | **Intercept** | **1** |  |  | 2.3685 | 0.2899 | 242 | 8.17 | <.0001 | | **Intercept** | **2** |  |  | 5.2517 | 0.3556 | 242 | 14.77 | <.0001 | | **lobe** |  | **LLL** |  | -0.3712 | 0.1995 | 1213 | -1.86 | 0.0630 | | **lobe** |  | **LLS** |  | 0.2091 | 0.1997 | 1213 | 1.05 | 0.2952 | | **lobe** |  | **LUS** |  | 1.2741 | 0.2070 | 1213 | 6.16 | <.0001 | | **lobe** |  | **RLL** |  | -0.5954 | 0.1980 | 1213 | -3.01 | 0.0027 | | **lobe** |  | **RML** |  | -0.2292 | 0.2000 | 1213 | -1.15 | 0.2520 | | **lobe** |  | **RUL** |  | 0 | . | . | . | . | | **rater** |  |  | **JW** | 0.1723 | 0.3032 | 1213 | 0.57 | 0.5699 | | **rater** |  |  | **VH** | 0 | . | . | . | . |      | **Type III Tests of Fixed Effects** | | | | | | --- | --- | --- | --- | --- | | **Effect** | **Num DF** | **Den DF** | **F Value** | **Pr > F** | | **lobe** | 5 | 1213 | 18.93 | <.0001 | | **rater** | 1 | 1213 | 0.32 | 0.5699 | |