Number of observations read : 646 Weighted count: 10211
Number of observations skipped : 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 554 Weighted count: 8838
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 6
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
250 clusters were used to fit the model
Maximum cluster size is 7 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 377 Population Count 5726
2: Sample Count 177 Population Count 3112
-2 * Normalized Log-Likelihood with Intercepts Only : 718.81
-2 * Normalized Log-Likelihood Full Model : 708.72
Approximate Chi-Square (-2 * Log-L Ratio) : 10.09
Degrees of Freedom : 4

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

Date: 03-27-2000 Research Triangle Institute Page : 1
Time: 14:21:17 The MULTILOG Procedure Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

----------------------------------------------------------------------------
<table>
<thead>
<tr>
<th>1 vs 2</th>
<th>Beta</th>
<th>T-Test</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
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<td>1.05</td>
<td>0.2969</td>
</tr>
<tr>
<td>FACTYP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
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<td></td>
<td></td>
</tr>
<tr>
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<td>1.62</td>
<td>0.1085</td>
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<td>0.82</td>
<td>2.75</td>
<td>0.0071</td>
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<tr>
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<td>0.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>0.34</td>
<td>1.15</td>
<td>0.2524</td>
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<td>6</td>
<td>0.69</td>
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<td>0.0203</td>
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Date: 03-27-2000 Research Triangle Institute Page : 2
Time: 14:21:17 The MULTILOG Procedure Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

Contrast of Degrees P-value
Freedom Wald ChiSq ChiSq
----------------------------------------------------------------------------
OVERALL MODEL 5 59.69 0.0000
MODEL MINUS INTERCEPT 4 9.87 0.0427
INTERCEPT FACTYP 4 9.87 0.0427

Date: 03-27-2000 Research Triangle Institute Page : 3
Time: 14:21:17 The MULTILOG Procedure Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>Independent Variables and Effects</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 vs 2</td>
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<tr>
<td>Intercept</td>
<td>1.22</td>
<td></td>
</tr>
<tr>
<td>FACTYP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2</td>
<td>1.52</td>
<td>2.55</td>
</tr>
<tr>
<td>3</td>
<td>2.27</td>
<td>4.09</td>
</tr>
<tr>
<td>4</td>
<td>1.00</td>
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<td>1.40</td>
<td>2.52</td>
</tr>
<tr>
<td>6</td>
<td>2.00</td>
<td>3.57</td>
</tr>
</tbody>
</table>

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Number of observations read : 646   Weighted count: 10211
Number of observations skipped : 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 453   Weighted count: 7226
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
232 clusters were used to fit the model
Maximum cluster size is 7 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 302 Population Count 4573
2: Sample Count 151 Population Count 2653
-2 * Normalized Log-Likelihood with Intercepts Only : 595.63
-2 * Normalized Log-Likelihood Full Model : 595.09
Approximate Chi-Square (-2 * Log-L Ratio) : 0.54
Degrees of Freedom : 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.
<table>
<thead>
<tr>
<th>Contrast</th>
<th>Degrees Freedom</th>
<th>Wald ChiSq</th>
<th>ChiSq</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
<td>2</td>
<td>34.34</td>
<td>0.0000</td>
</tr>
<tr>
<td>MODEL MINUS INTERCEPT</td>
<td>1</td>
<td>0.56</td>
<td>0.4561</td>
</tr>
<tr>
<td>INTERCEPT</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>VFC</td>
<td>1</td>
<td>0.56</td>
<td>0.4561</td>
</tr>
</tbody>
</table>

Date: 03-27-2000                   Research Triangle Institute                       Page : 3
Time: 14:21:38                       The MULTILOG Procedure                          Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>Independent</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
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<td>1.38</td>
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<td>1.00</td>
</tr>
<tr>
<td></td>
<td>1.25</td>
<td>0.69</td>
</tr>
</tbody>
</table>

Number of observations read : 646    Weighted count: 10211
Number of observations skipped: 125
(WEIGHT variable nonpositive)
Observations used in the analysis: 645    Weighted count: 10194
Denominator degrees of freedom: 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 450    Population Count 6761
2: Sample Count 195    Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only : 824.16
-2 * Normalized Log-Likelihood Full Model : 815.77
Approximate Chi-Square (-2 * Log-L Ratio) : 8.38
Degrees of Freedom : 1

Note: The approximate Chi-Square is not adjusted for clustering. Refer to hypothesis test table for adjusted test.
### Table 1

#### Date: 03-27-2000  
Research Triangle Institute  
Page: 2

Variance Estimation Method: Robust (Binder, 1983)

Working Correlations: Independent

Link Function: Generalized Logit

Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>Contrast</th>
<th>Degrees Freedom</th>
<th>Wald ChiSq</th>
<th>ChiSq</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
<td>2</td>
<td>79.07</td>
<td>0.0000</td>
</tr>
<tr>
<td>MODEL MINUS INTERCEPT</td>
<td>1</td>
<td>7.67</td>
<td>0.0056</td>
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<tr>
<td>FIRSTBN</td>
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<td>7.67</td>
<td>0.0056</td>
</tr>
</tbody>
</table>

#### Table 1 (continued)

#### Date: 03-27-2000  
Research Triangle Institute  
Page: 3

Variance Estimation Method: Robust (Binder, 1983)

Working Correlations: Independent

Link Function: Generalized Logit

Response variable NBRCO2_I: NBRCO2_I

#### NBRCO2_I (log-odds) Independent Variables and Effects

<table>
<thead>
<tr>
<th>1 vs 2</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>3.13</td>
<td>2.20</td>
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<tr>
<td>FIRSTBN</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>1</td>
<td>0.55</td>
<td>0.36</td>
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</table>

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Number of observations read : 646  
Weighted count: 10211

Number of observations skipped : 125  
(WEIGHT variable nonpositive)

Observations used in the analysis : 645  
Weighted count: 10194

Denominator degrees of freedom : 96

Maximum number of estimable parameters for the model is 2

Independence parameters have converged in 3 iterations

File COCHIMM3 contains 266 Clusters

266 clusters were used to fit the model

Maximum cluster size is 8 records

Minimum cluster size is 1 records

Sample and Population Counts for Response Variable NBRCO2_I

1: Sample Count 450  Population Count 6761
2: Sample Count 195  Population Count 3433

-2 * Normalized Log-Likelihood with Intercepts Only : 824.16
-2 * Normalized Log-Likelihood Full Model : 822.54

Approximate Chi-Square (-2 * Log-L Ratio) : 1.62

Degrees of Freedom : 1

Note: The approximate Chi-Square is not adjusted for clustering.

Refer to hypothesis test table for adjusted test.
### Working Correlations: Independent

**Link Function:** Generalized Logit  
**Response variable:** NBRCO2_I: NBRCO2_I

#### NBRCO2_I (log-odds)

<table>
<thead>
<tr>
<th>Independent Variables and Effects</th>
<th>Beta Coeff.</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 vs 2</td>
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<td></td>
</tr>
<tr>
<td>Intercept</td>
<td>0.75</td>
<td>0.11</td>
<td>6.91</td>
<td>0.0000</td>
</tr>
<tr>
<td>NUMPROV</td>
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</tr>
<tr>
<td>1</td>
<td>0.00</td>
<td>0.00</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>2</td>
<td>-0.22</td>
<td>0.17</td>
<td>-1.30</td>
<td>0.1963</td>
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</tbody>
</table>

#### Contrast

<table>
<thead>
<tr>
<th>Contrast of Freedom</th>
<th>Wald ChiSq</th>
<th>ChiSq</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
<td>64.00</td>
<td>0.0000</td>
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<tr>
<td>MODEL MINUS INTERCEPT</td>
<td>1.69</td>
<td>0.1932</td>
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<tr>
<td>INTERCEPT NUMPROV</td>
<td>1.69</td>
<td>0.1932</td>
</tr>
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Number of observations read :  646  Weighted count:  10211
Number of observations skipped:  125  (WEIGHT variable nonpositive)
Observations used in the analysis :  645  Weighted count:  10194
Denominator degrees of freedom :  96

Maximum number of estimable parameters for the model is  3
Independence parameters have converged in 4 iterations
File COCHIMM3 contains  266 Clusters
266 clusters were used to fit the model
Maximum cluster size is  8 records
Minimum cluster size is  1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count  450  Population Count  6761
Sample Count 195  Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only : 824.16
-2 * Normalized Log-Likelihood Full Model : 815.24
Approximate Chi-Square (-2 * Log-L Ratio) : 8.91
Degrees of Freedom : 2

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

Date: 03-27-2000  Research Triangle Institute  Page : 1
Time: 14:21:56  The MULTILOG Procedure  Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>Independent Variables and Effects</th>
<th>Beta Coeff.</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>P-value</th>
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</thead>
<tbody>
<tr>
<td>1 vs 2</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Intercept</td>
<td>0.77</td>
<td>0.09</td>
<td>8.56</td>
<td>0.0000</td>
</tr>
<tr>
<td>PHONE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>0.00</td>
<td>0.00</td>
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<td>.</td>
</tr>
<tr>
<td>2</td>
<td>-0.67</td>
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<td>0.76</td>
<td>1.13</td>
<td>0.67</td>
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</table>

Contrast Degrees P-value
of Wald Wald ChiSq ChiSq
OVERALL MODEL 3 75.14 0.0000
MODEL MINUS INTERCEPT 2 5.97 0.0504
INTERCEPT . . . .
PHONE 2 5.97 0.0504

Date: 03-27-2000  Research Triangle Institute  Page : 3
Time: 14:21:56  The MULTILOG Procedure  Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
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<th>Independent Variables and Effects</th>
<th>Odds Ratio</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
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<td>1 vs 2</td>
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</tr>
<tr>
<td>Intercept</td>
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<td>1.81</td>
<td>2.58</td>
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<tr>
<td>PHONE</td>
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<td></td>
</tr>
<tr>
<td>1</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2</td>
<td>0.51</td>
<td>0.29</td>
<td>0.89</td>
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<tr>
<td>3</td>
<td>2.13</td>
<td>0.23</td>
<td>20.00</td>
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</table>
Number of observations read : 646  Weighted count: 10211
Number of observations skipped : 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 645  Weighted count: 10194
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 4
Independence parameters have converged in 4 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 450  Population Count 6761
2: Sample Count 195  Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only : 824.16
-2 * Normalized Log-Likelihood Full Model : 819.23
Approximate Chi-Square (-2 * Log-L Ratio) : 4.93
Degrees of Freedom : 3

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

<table>
<thead>
<tr>
<th>Contrast</th>
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<th>Wald</th>
<th>Wald ChiSq</th>
<th>P-value</th>
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</thead>
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<tr>
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<td>69.04</td>
<td>0.0000</td>
<td></td>
</tr>
<tr>
<td>MODEL MINUS INTERCEPT</td>
<td>3</td>
<td>4.32</td>
<td>0.2289</td>
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<td></td>
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<tr>
<td>NNRACE</td>
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<td>4.32</td>
<td>0.2289</td>
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Date: 03-27-2000                   Research Triangle Institute                       Page : 1
Time: 14:22:05                       The MULTILOG Procedure                          Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

NBR CO2_I (log-odds)

<table>
<thead>
<tr>
<th>Variables and Effects</th>
<th>Coeff.</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>B=0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>0.24</td>
<td>0.29</td>
<td>0.82</td>
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<td>NNRACE</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td>0.00</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>2</td>
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</tr>
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<td>0.1702</td>
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<td>1.35</td>
<td>0.79</td>
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Date: 03-27-2000                   Research Triangle Institute                       Page : 2
Time: 14:22:05                       The MULTILOG Procedure                          Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

Date: 03-27-2000                   Research Triangle Institute                       Page : 3
Time: 14:22:05                       The MULTILOG Procedure                          Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I
### NBRCO2_I (log-odds)

#### Independent Variables and Effects

<table>
<thead>
<tr>
<th>Odds Ratio</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 vs 2</td>
<td>1.27</td>
<td>0.71</td>
</tr>
<tr>
<td>Intercept</td>
<td>1.27</td>
<td>0.71</td>
</tr>
</tbody>
</table>

#### NNRACE

<table>
<thead>
<tr>
<th>Odds Ratio</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1.00</td>
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<tr>
<td>2</td>
<td>1.56</td>
<td>0.84</td>
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<tr>
<td>3</td>
<td>1.82</td>
<td>0.77</td>
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<tr>
<td>4</td>
<td>3.85</td>
<td>0.81</td>
</tr>
</tbody>
</table>

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Number of observations read: 646  Weighted count: 10211
Number of observations skipped: 125 (WEIGHT variable nonpositive)
Observations used in the analysis: 643  Weighted count: 10168
Denominator degrees of freedom: 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 448  Population Count 6735
2: Sample Count 195  Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only: 822.35
-2 * Normalized Log-Likelihood Full Model: 821.60
Approximate Chi-Square (-2 * Log-L Ratio): 0.75
Degrees of Freedom: 1

Note: The approximate Chi-Square is not adjusted for clustering. Refer to hypothesis test table for adjusted test.

Date: 03-27-2000  Research Triangle Institute
Time: 14:22:15  The MULTILOG Procedure
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

### NBRCO2_I (log-odds)

#### Independent Variables and Effects

<table>
<thead>
<tr>
<th>Beta Coeff.</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>B=0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>0.85</td>
<td>0.24</td>
<td>3.61</td>
</tr>
<tr>
<td>DM23NW</td>
<td>-0.21</td>
<td>0.26</td>
<td>-0.81</td>
</tr>
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</table>

Date: 03-27-2000  Research Triangle Institute
Time: 14:22:15  The MULTILOG Procedure
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

### CONTRAST

#### Degrees of Freedom

<table>
<thead>
<tr>
<th>Contrast of Wald Freedom</th>
<th>Wald ChiSq</th>
<th>ChiSq</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
<td>2</td>
<td>65.36</td>
</tr>
</tbody>
</table>

OVERALL MODEL 2 65.36 0.0000
### NBRCO2_I (log-odds)

<table>
<thead>
<tr>
<th>Independent Variables and Effects</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 vs 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intercept</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>DM23NW</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>0.81</td>
<td>0.49</td>
</tr>
</tbody>
</table>

---

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Number of observations read : 646  Weighted count: 10211
Number of observations skipped : 125  (WEIGHT variable nonpositive)
Observations used in the analysis : 468  Weighted count: 7472
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 4 iterations
File COCHIMM3 contains 266 Clusters
221 clusters were used to fit the model
Maximum cluster size is 7 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 304  Population Count 4589
2: Sample Count 164  Population Count 2883

-2 * Normalized Log-Likelihood with Intercepts Only : 624.16
-2 * Normalized Log-Likelihood Full Model : 622.75
Approximate Chi-Square (-2 * Log-L Ratio) : 1.41
Degrees of Freedom : 1

Note: The approximate Chi-Square is not adjusted for clustering. Refer to hypothesis test table for adjusted test.
Time: 14:22:23                       The MULTLOG Procedure                          Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>Contrast</th>
<th>Degrees Freedom</th>
<th>Wald ChiSq</th>
<th>ChiSq</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
<td>2</td>
<td>24.00</td>
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<td>0.0000</td>
</tr>
<tr>
<td>MODEL MINUS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERCEPT</td>
<td>1</td>
<td>1.36</td>
<td></td>
<td>0.2428</td>
</tr>
<tr>
<td>STMPAID</td>
<td>1</td>
<td>1.36</td>
<td></td>
<td>0.2428</td>
</tr>
</tbody>
</table>

Date: 03-27-2000                   Research Triangle Institute                       Page : 3
Time: 14:22:23                       The MULTLOG Procedure                          Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>NBRCO2_I (log-odds)</th>
<th>Lower 95%</th>
<th>Upper 95%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>1.57</td>
<td>1.28</td>
</tr>
<tr>
<td>STMPAID</td>
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<td></td>
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<tr>
<td>1</td>
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<td>1.00</td>
</tr>
<tr>
<td>2</td>
<td>3.02</td>
<td>0.46</td>
</tr>
</tbody>
</table>

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Number of observations read : 646    Weighted count: 10211
Number of observations skipped: 125
(WEIGHT variable nonpositive)
Observations used in the analysis: 645    Weighted count: 10194
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 4 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 450    Population Count 6761
2: Sample Count 195    Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only : 824.16
-2 * Normalized Log-Likelihood Full Model : 814.11
Approximate Chi-Square (-2 * Log-L Ratio) : 10.05
Degrees of Freedom : 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.
<table>
<thead>
<tr>
<th>Variables and Effects</th>
<th>Beta Coeff.</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>B=0</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 vs 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intercept</td>
<td>-1.15</td>
<td>0.68</td>
<td>-1.68</td>
<td>0.0968</td>
</tr>
<tr>
<td>IMMIMP</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>0.00</td>
<td>0.00</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>2</td>
<td>1.87</td>
<td>0.68</td>
<td>2.72</td>
<td>0.0077</td>
</tr>
</tbody>
</table>

Date: 03-27-2000       Research Triangle Institute           Page : 2
Time: 14:22:30         The MULTILOG Procedure                Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>Contrast</th>
<th>Degrees</th>
<th>Wald Freedom</th>
<th>Wald ChiSq</th>
<th>ChiSq</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
<td>2</td>
<td>78.12</td>
<td>0.0000</td>
<td></td>
</tr>
<tr>
<td>MODEL MINUS INTERCEPT</td>
<td>1</td>
<td>7.42</td>
<td>0.0064</td>
<td></td>
</tr>
<tr>
<td>INTERCEPT</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>IMMIMP</td>
<td>1</td>
<td>7.42</td>
<td>0.0064</td>
<td></td>
</tr>
</tbody>
</table>

Date: 03-27-2000       Research Triangle Institute           Page : 3
Time: 14:22:30         The MULTILOG Procedure                Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>Variables and Effects</th>
<th>Odds Ratio</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 vs 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intercept</td>
<td>0.32</td>
<td>0.08</td>
<td>1.23</td>
</tr>
<tr>
<td>IMMIMP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2</td>
<td>6.46</td>
<td>1.66</td>
<td>25.17</td>
</tr>
</tbody>
</table>

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Number of observations read : 646 Weighted count: 10211
Number of observations skipped : 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 631 Weighted count: 9962
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
263 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 444 Population Count 6672
2: Sample Count 187 Population Count 3291
-2 * Normalized Log-Likelihood with Intercepts Only : 800.61
-2 * Normalized Log-Likelihood Full Model : 799.03
Approximate Chi-Square (-2 * Log-L Ratio) : 1.59
Degrees of Freedom : 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

**NBRCO2_I (log-odds)**

<table>
<thead>
<tr>
<th>Independent Variables and Effects</th>
<th>Beta Coeff.</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>B=0</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 vs 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intercept</td>
<td>0.26</td>
<td>0.40</td>
<td>0.66</td>
<td>0.5118</td>
</tr>
<tr>
<td>IMMEFFIC</td>
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<td>0.00</td>
<td>0.00</td>
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<td>1</td>
<td>0.47</td>
<td>0.41</td>
<td>1.14</td>
<td>0.2557</td>
</tr>
</tbody>
</table>

**Contrast**

<table>
<thead>
<tr>
<th>Degrees of Freedom</th>
<th>Wald ChiSq</th>
<th>ChiSq</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
<td>2</td>
<td>72.22</td>
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<tr>
<td>MODEL MINUS INTERCEPT</td>
<td>1</td>
<td>1.31</td>
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<tr>
<td>INTERCEPT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMMEFFIC</td>
<td>1</td>
<td>1.31</td>
</tr>
</tbody>
</table>

**NBRCO2_I (log-odds)**

<table>
<thead>
<tr>
<th>Independent Variables and Effects</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 vs 2</td>
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<td></td>
</tr>
<tr>
<td>Intercept</td>
<td>1.30</td>
<td>0.59</td>
</tr>
<tr>
<td>IMMEFFIC</td>
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<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2</td>
<td>1.60</td>
<td>0.71</td>
</tr>
</tbody>
</table>

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Number of observations read : 646  Weighted count: 10211
Number of observations skipped : 125  (WEIGHT variable nonpositive)
Observations used in the analysis : 626  Weighted count: 9886
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 4 iterations
File COCHIMM3 contains 266 Clusters
261 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 440 Population Count 6612
2: Sample Count 186 Population Count 3274
-2 * Normalized Log-Likelihood with Intercepts Only : 795.06
-2 * Normalized Log-Likelihood Full Model           : 778.30
Approximate Chi-Square (-2 * Log-L Ratio)          : 16.76
Degrees of Freedom                                  : 1

Note: The approximate Chi-Square is not adjusted for clustering.
      Refer to hypothesis test table for adjusted test.

Date: 03-27-2000                   Research Triangle Institute                       Page : 1
Time: 14:22:38                       The MULTILOG Procedure                           Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

NBRCO2_I (log-odds)
Independent Variables and Effects          Beta          SE Beta   T-Test B=0   B=0

1 vs 2
Intercept                -0.68         0.36        -1.91     0.0595
IMMSAFTY
1                       0.00         0.00          .        .
2                       1.47         0.37         3.94     0.0002

Date: 03-27-2000                   Research Triangle Institute                       Page : 2
Time: 14:22:38                       The MULTILOG Procedure                           Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

Contrast Degrees of Freedom Wald ChiSq Wald ChiSq

OVERALL MODEL                 2        78.90     0.0000
MODEL MINUS
INTERCEPT                   1        15.55     0.0000
INTERCEPT                     .          .        .
IMMSAFTY                      1        15.55     0.0000

Date: 03-27-2000                   Research Triangle Institute                       Page : 3
Time: 14:22:38                       The MULTILOG Procedure                           Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

NBRCO2_I (log-odds)
Independent Variables and Effects          Lower 95%    Upper 95%

1 vs 2
Intercept                 0.51         0.25         1.03
IMMSAFTY
1                       1.00         1.00         1.00
2                       4.35         2.07         9.11
The SAS System 09:22 Monday, March 27, 2000 245

Number of observations read : 646  Weighted count: 10211
Number of observations skipped : 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 645  Weighted count: 10194
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 450  Population Count 6761
2: Sample Count 195  Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only : 824.16
-2 * Normalized Log-Likelihood Full Model : 821.35
Approximate Chi-Square (-2 * Log-L Ratio) : 2.81
Degrees of Freedom : 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

Date: 03-27-2000  Time: 14:22:42
Research Triangle Institute  The MULTILOG Procedure  Page : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

-------------------------------
NBRCO2_I (log-odds)
Independent P-value
Variables and Beta T-Test
Effects Coeff. SE Beta T-Test B=0 B=0
-------------------------------
1 vs 2
Intercept 1.10 0.27 4.01 0.0001
IMMTIME
1 0.00 0.00 . .
2 -0.47 0.29 -1.60 0.1133
-------------------------------

Date: 03-27-2000  Time: 14:22:42
Research Triangle Institute  The MULTILOG Procedure  Page : 2
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

--------------------
Contrast Degrees P-value
of Wald ChiSq ChiSq
--------------------
OVERALL MODEL 2  68.03 0.0000
MODEL MINUS
INTERCEPT 1  2.55 0.1100
INTERCEPT .  .  .  .
IMMTIME 1  2.55 0.1100
--------------------

Date: 03-27-2000  Time: 14:22:42
Research Triangle Institute  The MULTILOG Procedure  Page : 3
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I
<table>
<thead>
<tr>
<th>1 vs 2</th>
<th>Intercept</th>
<th>3.00</th>
<th>1.74</th>
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<tbody>
<tr>
<td><strong>IMMTIME</strong></td>
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</tr>
<tr>
<td>1</td>
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<td>1.00</td>
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</tr>
<tr>
<td>2</td>
<td>0.63</td>
<td>0.35</td>
<td>1.12</td>
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</tr>
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</table>

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Number of observations read : 646  Weighted count: 10211
Number of observations skipped : 125  (WEIGHT variable nonpositive)
Observations used in the analysis : 645  Weighted count: 10194
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 450  Population Count 6761
2: Sample Count 195  Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only: 824.16
-2 * Normalized Log-Likelihood Full Model: 824.04
Approximate Chi-Square (-2 * Log-L.Ratio): 0.12
Degrees of Freedom: 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

Date: 03-27-2000  Research Triangle Institute  Page: 2
Time: 14:22:45  The MULTILOG Procedure  Table: 2
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>1 vs 2</th>
<th>Intercept</th>
<th>0.55</th>
<th>0.40</th>
<th>1.39</th>
<th>0.1691</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IMMAPPT</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
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<td>0.00</td>
<td>0.00</td>
<td>.</td>
<td>.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>0.13</td>
<td>0.42</td>
<td>0.31</td>
<td>0.7541</td>
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</tr>
</tbody>
</table>
### Variable Coefficients

#### Intercept
- Coefficient: 1
- Standard Error: 0.10
- Wald Chi-Square: 0.7534

#### IMMAPPPT
- Coefficient: 1
- Standard Error: 0.10
- Wald Chi-Square: 0.7534

### Table 1: NBRCO2_I (log-odds)

<table>
<thead>
<tr>
<th>Variable</th>
<th>Coefficient</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>1.74</td>
<td>0.79</td>
<td>3.82</td>
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</tbody>
</table>

### Summary Statistics
- Number of observations read: 646
- Weighted count: 10211
- Number of observations skipped: 125
- Weighted count: 10194
- Denominator degrees of freedom: 96
- Maximum number of estimable parameters for the model: 2
- Independence parameters have converged in 2 iterations
- File COCHIMM3 contains 266 clusters
- 266 clusters were used to fit the model
- Maximum cluster size: 8 records
- Minimum cluster size: 1 record
- Sample and Population Counts for Response Variable NBRCO2_I
  - 1: Sample Count 450, Population Count 6761
  - 2: Sample Count 195, Population Count 3433
- -2 * Normalized Log-Likelihood with Intercepts Only: 824.16
- -2 * Normalized Log-Likelihood Full Model: 824.12
- Approximate Chi-Square (-2 * Log-L Ratio): 0.03
- Degrees of Freedom: 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.
### Contrast of Degrees P-value

<table>
<thead>
<tr>
<th></th>
<th>Degrees</th>
<th>Wald Freedom</th>
<th>Wald ChiSq</th>
<th>ChiSq</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
<td>2</td>
<td>64.81</td>
<td>0.0000</td>
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</tr>
<tr>
<td>MODEL MINUS</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERCEPT</td>
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<td>0.03</td>
<td>0.8626</td>
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<tr>
<td>IMMWORK</td>
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<td>0.03</td>
<td>0.8626</td>
<td></td>
</tr>
</tbody>
</table>

---

NBRCO2_I (log-odds)

<table>
<thead>
<tr>
<th>Effects</th>
<th>Odds Ratio</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 vs 2</td>
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</tr>
<tr>
<td>Intercept</td>
<td>2.08</td>
<td>1.06</td>
<td>4.09</td>
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<tr>
<td>IMMWORK</td>
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<tr>
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<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2</td>
<td>0.94</td>
<td>0.47</td>
<td>1.88</td>
</tr>
</tbody>
</table>

---

The SAS System 09:22 Monday, March 27, 2000 257

Number of observations read : 646 Weighted count: 10211
Number of observations skipped : 125 (WEIGHT variable nonpositive)
Observations used in the analysis : 645 Weighted count: 10194
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 4 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 450 Population Count 6761
2: Sample Count 195 Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only : 824.16
-2 * Normalized Log-Likelihood Full Model : 812.45
Approximate Chi-Square (-2 * Log-L Ratio) : 11.71
Degrees of Freedom : 1

Note: The approximate Chi-Square is not adjusted for clustering. Refer to hypothesis test table for adjusted test.
Effects | Coeff. | SE Beta | T-Test B=0 | B=0
--- | --- | --- | --- | ---
1 vs 2
Intercept | -0.64 | 0.44 | -1.46 | 0.1485
IMMTSPRT
1 | 0.00 | 0.00 | . | .
2 | 1.38 | 0.46 | 2.98 | 0.0036

Date: 03-27-2000  
Research Triangle Institute  
Time: 14:22:52  
The MULTILOG Procedure  
Page : 2  
Table : 1

Variance Estimation Method: Robust (Binder, 1983)  
Working Correlations: Independent  
Link Function: Generalized Logit  
Response variable NBRCO2_I: NBRCO2_I

Contrast | Degrees of Freedom | Wald | Wald ChiSq | ChiSq
--- | --- | --- | --- | ---
OVERALL MODEL | 2 | 67.52 | 0.0000
MODEL MINUS INTERCEPT | 1 | 8.89 | 0.0029
INTERCEPT | . | . | .
IMMTSPRT | 1 | 8.89 | 0.0029

Date: 03-27-2000  
Research Triangle Institute  
Time: 14:22:52  
The MULTILOG Procedure  
Page : 3  
Table : 1

Variance Estimation Method: Robust (Binder, 1983)  
Working Correlations: Independent  
Link Function: Generalized Logit  
Response variable NBRCO2_I: NBRCO2_I

NBRCO2_I (log-odds)
Independent
Variables and Effects | Odds Ratio | Lower 95% Limit | Upper 95% Limit
--- | --- | --- | ---
1 vs 2
Intercept | 0.53 | 0.22 | 1.26
IMMTSPRT
1 | 1.00 | 1.00 | 1.00
2 | 3.99 | 1.59 | 10.01

The SAS System  
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Number of observations read : 646  
Weighted count: 10211
Number of observations skipped : 125  
(WEIGHT variable nonpositive)
Observations used in the analysis : 645  
Weighted count: 10194
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 1 iteration
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 450  
Population Count 6761
2: Sample Count 195  
Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only : 824.16
-2 * Normalized Log-Likelihood Full Model : 824.16
Approximate Chi-Square (-2 * Log-L Ratio) : -0.00
Degrees of Freedom : -0

Note: The approximate Chi-Square is not adjusted for clustering.  
Refer to hypothesis test table for adjusted test.
### Table 1

#### NBRCO2_I (log-odds)

<table>
<thead>
<tr>
<th>Variables and Effects</th>
<th>Beta Coeff.</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>B=0 P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>0.68</td>
<td>0.08</td>
<td>8.05</td>
<td>0.0000</td>
</tr>
<tr>
<td>IMMCCARE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>0.00</td>
<td>0.00</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>2</td>
<td>0.00</td>
<td>0.00</td>
<td>.</td>
<td>.</td>
</tr>
</tbody>
</table>

### Table 2

#### Contrast

<table>
<thead>
<tr>
<th>Contrast of Freedom</th>
<th>Wald Degrees</th>
<th>Wald ChiSq</th>
<th>ChiSq P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
<td>1</td>
<td>64.86</td>
<td>0.0000</td>
</tr>
<tr>
<td>MODEL MINUS INTERCEPT</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>INTERCEPT IMMCCARE</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
</tbody>
</table>

### Table 3

#### NBRCO2_I (log-odds)

<table>
<thead>
<tr>
<th>Variables and Effects</th>
<th>Odd Ratio Lower 95% Limit</th>
<th>Odd Ratio Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>1.97</td>
<td>1.67</td>
</tr>
<tr>
<td>IMMCCARE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2</td>
<td>1.00</td>
<td>1.00</td>
</tr>
</tbody>
</table>
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 450 Population Count 6761
2: Sample Count 192 Population Count 3377
-2 * Normalized Log-Likelihood with Intercepts Only : 820.88
-2 * Normalized Log-Likelihood Full Model : 820.88
Approximate Chi-Square (-2 * Log-L Ratio) : 0.00
Degrees of Freedom : -0

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.
Number of observations read : 646   Weighted count: 10211
Number of observations skipped : 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 645   Weighted count: 10194
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records

Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 450   Population Count 6761
2: Sample Count 195   Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only : 824.16
-2 * Normalized Log-Likelihood Full Model : 823.90
Approximate Chi-Square (-2 * Log-L Ratio) : 0.26
Degrees of Freedom : 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

Date: 03-27-2000   Research Triangle Institute   Page : 1
Time: 14:23:03   The MULTILOG Procedure   Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

-------------------------------------------------------------
NBRCO2_I (log-odds)

<table>
<thead>
<tr>
<th>Variable</th>
<th>Coeff.</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>B=0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>0.99</td>
<td>0.61</td>
<td>1.62</td>
<td>0.1079</td>
</tr>
<tr>
<td>IMMCOSt</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>0.00</td>
<td>0.00</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>2</td>
<td>-0.31</td>
<td>0.62</td>
<td>-0.51</td>
<td>0.6122</td>
</tr>
</tbody>
</table>

-------------------------------------------------------------
Contrast Degrees P-value
of Wald Wald ChiSq ChiSq
Freedom Wald ChiSq ChiSq

OVERALL MODEL 2 65.86 0.0000
MODEL MINUS
INTERCEPT 1 0.26 0.6110
INTERCEPT 1 0.26 0.6110
IMMCOSt

Date: 03-27-2000   Research Triangle Institute   Page : 3
Time: 14:23:03   The MULTILOG Procedure   Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

-------------------------------------------------------------
NBRCO2_I (log-odds)
### Independent Variables and Effects

<table>
<thead>
<tr>
<th>Effects</th>
<th>Lower 95%</th>
<th>Odds Ratio</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 vs 2</td>
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<td>2.68</td>
<td>0.80</td>
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</tbody>
</table>

**IMMCO**

<table>
<thead>
<tr>
<th></th>
<th>Lower 95%</th>
<th>Odds Ratio</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2</td>
<td>0.73</td>
<td>0.21</td>
<td>2.49</td>
</tr>
</tbody>
</table>

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Number of observations read: 646  Weighted count: 10211
Number of observations skipped: 125 (WEIGHT variable nonpositive)
Observations used in the analysis: 645  Weighted count: 10194
Denominator degrees of freedom: 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 1 iteration
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I

1: Sample Count 450  Population Count 6761
2: Sample Count 194  Population Count 3419

-2 * Normalized Log-Likelihood with Intercepts Only: 823.34
-2 * Normalized Log-Likelihood Full Model: 823.34
Approximate Chi-Square (-2 * Log-L Ratio): 0.00
Degrees of Freedom: 0

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.
### NBRCO2_I (log-odds)

#### Independent Variables and Effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Odds Ratio</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 vs 2</td>
<td>1.98</td>
<td>1.67</td>
<td>2.34</td>
</tr>
</tbody>
</table>

#### NBRCO2_I (log-odds)

### Independent Variables

<table>
<thead>
<tr>
<th>Variables and Effects</th>
<th>Coeff.</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>B=0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>0.42</td>
<td>0.19</td>
<td>2.20</td>
<td>0.0305</td>
</tr>
<tr>
<td>IMMNSR</td>
<td>0.33</td>
<td>0.23</td>
<td>1.47</td>
<td>0.1448</td>
</tr>
</tbody>
</table>

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Number of observations read: 646, Weighted count: 10211
Number of observations skipped: 125 (WEIGHT variable nonpositive)
Observations used in the analysis: 645, Weighted count: 10194
Denominator degrees of freedom: 96
Maximum number of estimable parameters for the model: 2
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size: 8 records
Minimum cluster size: 1 records

Sample and Population Counts for Response Variable NBRCO2_I

<table>
<thead>
<tr>
<th>Group</th>
<th>Sample Count</th>
<th>Population Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>450</td>
<td>6761</td>
</tr>
<tr>
<td>2</td>
<td>195</td>
<td>3433</td>
</tr>
</tbody>
</table>

-2 * Normalized Log-Likelihood with Intercepts Only: 824.16
-2 * Normalized Log-Likelihood Full Model: 821.47
Approximate Chi-Square (-2 * Log-L Ratio): 2.68
Degrees of Freedom: 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

Contrast of Degrees P-value
of Wald Wald ChiSq ChiSq

<table>
<thead>
<tr>
<th>Contrast</th>
<th>Degrees</th>
<th>Wald</th>
<th>Wald ChiSq</th>
<th>ChiSq</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
<td>2</td>
<td>64.60</td>
<td>0.0000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODEL MINUS INTERCEPT</td>
<td>1</td>
<td>2.16</td>
<td>0.1416</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERCEPT</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMMNEXTS</td>
<td>1</td>
<td>2.16</td>
<td>0.1416</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Date: 03-27-2000       Research Triangle Institute  Page : 3
Time: 14:23:14         The MULTILOG Procedure  Table : 1

Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

NBRCO2_I (log-odds)

Independent Variables and Effects

<table>
<thead>
<tr>
<th>Lower 95%</th>
<th>Upper 95%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odds Ratio</td>
<td>Limit</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------</td>
</tr>
<tr>
<td>1 vs 2</td>
<td></td>
</tr>
<tr>
<td>Intercept</td>
<td>1.52</td>
</tr>
<tr>
<td>IMMNEXTS</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>1.39</td>
</tr>
</tbody>
</table>

The SAS System       09:22 Monday, March 27, 2000 281
Number of observations read : 646  Weighted count: 10211
Number of observations skipped: 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 645  Weighted count: 10194
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is  2
Independence parameters have converged in 3 iterations
File COCHIIM3 contains  266 Clusters
266 clusters were used to fit the model
Maximum cluster size is   8 records
Minimum cluster size is   1 records
Sample and Population Counts for Response Variable NBRCO2_I
| 1: Sample Count | Population Count | 6761        |
| 2: Sample Count | Population Count | 3433        |
-2 * Normalized Log-Likelihood with Intercepts Only :  824.16
-2 * Normalized Log-Likelihood Full Model :  820.70
Approximate Chi-Square (-2 * Log-L Ratio) :  3.46
Degrees of Freedom : 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

Date: 03-27-2000       Research Triangle Institute  Page : 1
Time: 14:23:14         The MULTILOG Procedure  Table : 1

Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

NBRCO2_I (log-odds)

Independent Variables and Effects

<table>
<thead>
<tr>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beta</td>
</tr>
<tr>
<td>T-Test</td>
</tr>
</tbody>
</table>

| SE Beta | T-Test B=0 | B=0 |
1 vs 2
Intercept  0.94  0.18  5.10  0.0000
IMMFREES
  1  0.00  0.00  .  .
  2 -0.36  0.22 -1.60  0.1118

Date: 03-27-2000                        Research Triangle Institute
Time: 14:23:14                          The MULTILOG Procedure
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I
Contrast Degrees P-value
of Wald Wald ChiSq ChiSq
Freedom

OVERALL MODEL 2  67.91  0.0000
MODEL MINUS
INTERCEPT 1  2.58  0.1086
INTERCEPT .  .  .
IMMFREES 1  2.58  0.1086

Date: 03-27-2000                        Research Triangle Institute
Time: 14:23:14                          The MULTILOG Procedure
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I
NBRCO2_I (log-odds)
Independent
Variables and Effects Odds Ratio Lower 95% Limit Upper 95% Limit

1 vs 2
Intercept 2.56  1.78  3.70
IMMFREES
  1 1.00  1.00  1.00
  2 0.70  0.45  1.09

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Number of observations read : 646 Weighted count: 10211
Number of observations skipped : 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 615 Weighted count: 9705
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
259 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 436 Population Count 6555
  2: Sample Count 179 Population Count 3150
-2 * Normalized Log-Likelihood with Intercepts Only : 775.25
-2 * Normalized Log-Likelihood Full Model : 770.41
Approximate Chi-Square (-2 * Log-L Ratio) : 4.84
Degrees of Freedom : 1
Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.
### NBRCO2_I (log-odds)

#### Independent Variables and Effects

<table>
<thead>
<tr>
<th>Variables and Effects</th>
<th>Coeff.</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>B=0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>0.90</td>
<td>0.12</td>
<td>7.44</td>
<td>0.000</td>
</tr>
<tr>
<td>SCORE2 1</td>
<td>0.00</td>
<td>0.00</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>SCORE2 2</td>
<td>-0.38</td>
<td>0.19</td>
<td>-2.06</td>
<td>0.042</td>
</tr>
</tbody>
</table>

### Contrast

<table>
<thead>
<tr>
<th>Contrast</th>
<th>Degrees</th>
<th>Wald ChiSq</th>
<th>ChiSq</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
<td>2</td>
<td>76.49</td>
<td>0.000</td>
</tr>
<tr>
<td>MODEL MINUS</td>
<td>1</td>
<td>4.25</td>
<td>0.0393</td>
</tr>
<tr>
<td>INTERCEPT</td>
<td>1</td>
<td>4.25</td>
<td>0.0393</td>
</tr>
</tbody>
</table>

### Odds Ratio

<table>
<thead>
<tr>
<th>Variables and Effects</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>1.93</td>
<td>3.11</td>
</tr>
<tr>
<td>SCORE2 1</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>SCORE2 2</td>
<td>0.47</td>
<td>0.99</td>
</tr>
</tbody>
</table>

---

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Number of observations read : 646  Weighted count: 10211
Number of observations skipped : 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 615  Weighted count: 9705
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 4
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
259 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 436  Population Count 6555
2: Sample Count 179  Population Count 3150

-2 * Normalized Log-Likelihood with Intercepts Only : 775.25
-2 * Normalized Log-Likelihood Full Model : 770.41
Approximate Chi-Square (-2 * Log-L Ratio) : 4.84
Degrees of Freedom : 2

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

Date: 03-27-2000  Research Triangle Institute  Page : 1
Time: 14:23:21  The MULTILOG Procedure  Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

NBRCO2_I (log-odds)

Independent Variables and Effects

I vs 2

Intercept 0.90 0.12 7.44 0.0000
SCORE3
1 0.00 0.00 . .
2 -0.38 0.19 -2.07 0.0414
3 -0.38 0.89 -0.43 0.6710
4 0.00 0.00 . .

Date: 03-27-2000  Research Triangle Institute  Page : 2
Time: 14:23:21  The MULTILOG Procedure  Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

Contrast Degrees of Freedom Wald Wald ChiSq P-value
OVERALL MODEL 3 76.66 0.0000
MODEL MINUS INTERCEPT 2 4.28 0.1179
INTERCEPT SCORE3 2 4.28 0.1179

Date: 03-27-2000  Research Triangle Institute  Page : 3
Time: 14:23:21  The MULTILOG Procedure  Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

NBRCO2_I (log-odds)

Independent Variables and Effects

I vs 2

Intercept 2.45 1.93 3.11
SCORE3
1 1.00 1.00 1.00
2 0.68 0.47 0.98
3 0.68 0.12 4.00
4 1.00 1.00 1.00
Number of observations read : 646  Weighted count: 10211
Number of observations skipped : 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 644  Weighted count: 10180
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 7
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
264 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 445  Population Count 6690
2: Sample Count 194  Population Count 3421
-2 * Normalized Log-Likelihood with Intercepts Only : 824.25
-2 * Normalized Log-Likelihood Full Model : 823.91
Approximate Chi-Square (-2 * Log-L Ratio) : 0.34
Degrees of Freedom : 3

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

Date: 03-27-2000                   Research Triangle Institute                       Page : 1
Time: 14:23:24                       The MULTILOG Procedure                          Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>NBRCO2_I (log-odds)</th>
<th>P-value</th>
<th>Independent</th>
<th>Variables and Effects</th>
<th>Coeff.</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>B=0</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 vs 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intercept</td>
<td>0.68</td>
<td>0.09</td>
<td>7.82</td>
<td>0.000</td>
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<td></td>
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<tr>
<td>C7NW</td>
<td></td>
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<td>1</td>
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<tr>
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<td></td>
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<td>2</td>
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<tr>
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<td>3</td>
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<td>0.38</td>
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<tr>
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<td>4</td>
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<tr>
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<td>5</td>
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<tr>
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<td></td>
<td></td>
<td>6</td>
<td>0.34</td>
<td>1.16</td>
<td>0.29</td>
<td>0.7694</td>
</tr>
<tr>
<td></td>
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Date: 03-27-2000                   Research Triangle Institute                       Page : 2
Time: 14:23:24                       The MULTILOG Procedure                          Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

Contrast         | Degrees of Freedom | Wald ChiSq | ChiSq |
OVERALL MODEL   | 4                 | 63.32      | 0.000 |
MODEL MINUS     |                    |            |      |
INTERCEPT       | 3                 | 0.31       | 0.9588|
INTERCEPT       |                    |            |      |
C7NW            | 3                 | 0.31       | 0.9588|
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>NBRCO2_I (log-odds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Independent</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>1 vs 2</td>
</tr>
<tr>
<td>C7NW</td>
</tr>
<tr>
<td></td>
</tr>
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</table>

Date: 03-27-2000                   Research Triangle Institute                       Page : 1
Time: 14:23:28                       The MULTILOG Procedure                          Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>NBRCO2_I (log-odds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Independent</td>
</tr>
<tr>
<td>1 vs 2</td>
</tr>
<tr>
<td>C9NW</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Number of observations read : 646   Weighted count: 10211
Number of observations skipped : 125  (WEIGHT variable nonpositive)
Observations used in the analysis : 633   Weighted count: 10018
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is : 2
Independence parameters have converged in 4 iterations
File COCHIMM3 contains 266 Clusters
263 clusters were used to fit the model
Minimum cluster size is 8 records
Sample and Population Counts for Response Variable NBRCO2_I:
1:  Sample Count 443   Population Count 6669
2:  Sample Count 190   Population Count 3348
-2 * Normalized Log-Likelihood with Intercepts Only : 806.64
-2 * Normalized Log-Likelihood Full Model : 804.63
Approximate Chi-Square (-2 * Log-L Ratio) : 2.01
Degrees of Freedom : 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

Date: 03-27-2000                   Research Triangle Institute                       Page : 2
Time: 14:23:28                       The MULTILOG Procedure                          Table : 1
Variance Estimation Method: Robust (Binder, 1983)
<table>
<thead>
<tr>
<th>Contrast</th>
<th>Degrees Freedom</th>
<th>Wald</th>
<th>ChiSq</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
<td>2</td>
<td>65.79</td>
<td>0.0000</td>
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</tr>
<tr>
<td>MODEL MINUS</td>
<td>1</td>
<td>1.48</td>
<td>0.2234</td>
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</tr>
<tr>
<td>INTERCEPT</td>
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<td>.</td>
<td></td>
</tr>
<tr>
<td>C9NW</td>
<td>1</td>
<td>1.48</td>
<td>0.2234</td>
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</tr>
</tbody>
</table>

Date: 03-27-2000 Research Triangle Institute Page : 3
Time: 14:23:28 The MULTILOG Procedure Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>NBRCO2_I (log-odds)</th>
<th>Independent Variables and Effects</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 vs 2</td>
<td>Intercept</td>
<td>3.59</td>
<td>1.34</td>
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<tr>
<td>C9NW</td>
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<td>2</td>
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<td>0.20</td>
</tr>
</tbody>
</table>

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Number of observations read : 646  Weighted count: 10211
Number of observations skipped: 125
(WEIGHT variable nonpositive)
Observations used in the analysis: 638  Weighted count: 10081
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
264 clusters were used to fit the model
Maximum cluster size is 7 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1:  Sample Count 446  Population Count 6703
2:  Sample Count 192  Population Count 3378
-2 * Normalized Log-Likelihood with Intercepts Only : 813.76
-2 * Normalized Log-Likelihood Full Model : 809.16
Approximate Chi-Square (-2 * Log-L Ratio) : 4.61
Degrees of Freedom : 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.
1 vs 2
Intercept    0.25  0.22  1.14  0.2560
HC13NW
  1         0.00  0.00  .   .
  2         0.51  0.24  2.10  0.0382

Date: 03-27-2000            Research Triangle Institute
Time: 14:23:32              The MULTILOG Procedure
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

Contrast               Degrees                 P-value
of                      Wald
Freedom    Wald ChiSq   ChiSq

OVERALL MODEL                                         2  65.42   0.0000
MODEL MINUS
  INTERCEPT                   1    4.42   0.0355
  HC13NW                      1    4.42   0.0355

Date: 03-27-2000            Research Triangle Institute
Time: 14:23:32              The MULTILOG Procedure
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

NBRCO2_I (log-odds)
Independent
Variables and    Lower 95%   Upper 95%
Effects          Odds Ratio   Limit        Limit

1 vs 2
Intercept    1.28  0.83  1.96
HC13NW
  1   1.00  1.00  1.00
  2   1.67  1.03  2.71

Note: The approximate Chi-Square is not adjusted for clustering.
      Refer to hypothesis test table for adjusted test.
### NBRCO2_I (log-odds)

<table>
<thead>
<tr>
<th>Independent Variables and Effects</th>
<th>Beta Coeff.</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>B=0 P-value</th>
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</thead>
<tbody>
<tr>
<td>1 vs 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intercept</td>
<td>0.46</td>
<td>0.21</td>
<td>2.17</td>
<td>0.0323</td>
</tr>
<tr>
<td>AC7NW 1</td>
<td>0.00</td>
<td>0.00</td>
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</tr>
<tr>
<td>AC7NW 2</td>
<td>0.30</td>
<td>0.24</td>
<td>1.26</td>
<td>0.2100</td>
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</table>

### Contrast Degrees of Freedom Wald Wald ChiSq P-value

<table>
<thead>
<tr>
<th>Contrast Degrees of Freedom Wald Wald ChiSq P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERALL MODEL 2 69.41 0.0000</td>
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<tr>
<td>MODEL MINUS INTERCEPT 1 1.59 0.2069</td>
</tr>
<tr>
<td>INTERCEPT . . . . . .</td>
</tr>
<tr>
<td>AC7NW 1 1.59 0.2069</td>
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</tbody>
</table>

### NBRCO2_I (log-odds)

<table>
<thead>
<tr>
<th>Independent Variables and Effects</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
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</thead>
<tbody>
<tr>
<td>1 vs 2</td>
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<tr>
<td>Intercept</td>
<td>1.04</td>
<td>2.42</td>
</tr>
<tr>
<td>AC7NW 1</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>AC7NW 2</td>
<td>0.84</td>
<td>2.15</td>
</tr>
</tbody>
</table>
Sample and Population Counts for Response Variable NBRCO2_I
1:  Sample Count  427  Population Count  6420
2:  Sample Count  169  Population Count  2972
-2 * Normalized Log-Likelihood with Intercepts Only :   743.98
-2 * Normalized Log-Likelihood Full Model           :   735.79
Approximate Chi-Square (-2 * Log-L Ratio) :   8.18
Degrees of Freedom :        2

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

Date: 03-27-2000                   Research Triangle Institute                       Page : 1
Time: 14:23:39                       The MULTILOG Procedure                          Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

NBRCO2_I (log-odds)
Independent
Variables and Effects

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<th>Variables</th>
<th>Beta Coeff.</th>
<th>SE Beta</th>
<th>T-Test</th>
<th>B=0</th>
<th>B=0</th>
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</thead>
<tbody>
<tr>
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<td>Intercept</td>
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<td>0.19</td>
<td>6.12</td>
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</tr>
<tr>
<td>NOCLDBY4</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>1</td>
<td>0.00</td>
<td>0.00</td>
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<td>6.12</td>
<td></td>
</tr>
<tr>
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</table>

Contrast of Wald Freedom P-value
OVERALL MODEL 3 85.41 0.0000
MODEL MINUS INTERCEPT 2 8.09 0.0175
INTERCEPT           . . . .
NOCLDBY4 2 8.09 0.0175

NBRCO2_I (log-odds)
Independent
Variables and Effects

<table>
<thead>
<tr>
<th>Variables</th>
<th>Odds Ratio Lower 95%</th>
<th>Upper 95%</th>
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</thead>
<tbody>
<tr>
<td>1 vs 2</td>
<td>1 vs 2</td>
<td></td>
</tr>
<tr>
<td>Intercept</td>
<td>3.18</td>
<td>2.19</td>
</tr>
<tr>
<td>NOCLDBY4</td>
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<td></td>
</tr>
<tr>
<td>1</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2</td>
<td>0.69</td>
<td>0.44</td>
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<tr>
<td>3</td>
<td>0.48</td>
<td>0.29</td>
</tr>
</tbody>
</table>
Number of observations read : 646  Weighted count: 10211
Number of observations skipped : 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 643  Weighted count: 10156
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 448  Population Count 6722
2: Sample Count 195  Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only : 822.71
-2 * Normalized Log-Likelihood Full Model : 822.18
Approximate Chi-Square (-2 * Log-L Ratio) : 0.53
Degrees of Freedom : 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

Date: 03-27-2000  Page : 1
Time: 14:23:42  The MULTILOG Procedure
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

NBRCO2_I (log-odds)
Independent
Variables and Effects
Beta Coeff. T-Test B=0 B=0

<table>
<thead>
<tr>
<th>Intercept</th>
<th>0.69</th>
<th>0.09</th>
<th>7.70</th>
<th>0.0000</th>
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</thead>
<tbody>
<tr>
<td>JMEDHREP 1</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JMEDHREP 2</td>
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<td>0.36</td>
<td>-0.69</td>
<td>0.4911</td>
</tr>
</tbody>
</table>

| Contrast of Degrees Freedom Wald of Wald ChiSq P-value |
|-------------|-----------------|---------------|
| OVERALL MODEL | 2               | 62.72         | 0.0000       |
| MODEL MINUS  | Intercept 1     | 0.48          | 0.4895       |
|              | Intercept       |               |              |
|              | JMEDHREP 1      | 0.48          | 0.4895       |

Date: 03-27-2000  Page : 2
Time: 14:23:42  The MULTILOG Procedure
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

NBRCO2_I (log-odds)
### Independent Variables and Effects

<table>
<thead>
<tr>
<th>Odds Ratio</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
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<tbody>
<tr>
<td>1 vs 2</td>
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</tr>
<tr>
<td>Intercept</td>
<td>1.99</td>
<td>1.67</td>
</tr>
<tr>
<td>JMEDHREP</td>
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<tr>
<td>1</td>
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<tr>
<td>2</td>
<td>0.78</td>
<td>0.38</td>
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</table>

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Number of observations read  : 646  Weighted count: 10211
Number of observations skipped: 125 (WEIGHT variable nonpositive)
Observations used in the analysis : 643  Weighted count: 10156
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 448  Population Count 6722
2: Sample Count 195  Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only : 822.71
-2 * Normalized Log-Likelihood Full Model : 822.18
Approximate Chi-Square (-2 * Log-L Ratio) : 0.53
Degrees of Freedom : 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

### NBRCO2_I (log-odds)

<table>
<thead>
<tr>
<th>Independent Variables and Effects</th>
<th>Beta</th>
<th>Coeff.</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>B=0</th>
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<tbody>
<tr>
<td>1 vs 2</td>
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</tr>
<tr>
<td>Intercept</td>
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<td>MEDH01</td>
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</tr>
<tr>
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<td>0.25</td>
<td>0.36</td>
<td>0.69</td>
<td>0.4911</td>
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Date: 03-27-2000  Time: 14:23:46  Research Triangle Institute  Page: 1  Table: 1

Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

### Contrast

<table>
<thead>
<tr>
<th>Degrees of Freedom</th>
<th>P-value</th>
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</thead>
<tbody>
<tr>
<td>Wald</td>
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<tr>
<td>Wald ChiSq</td>
<td></td>
</tr>
</tbody>
</table>

OVERALL MODEL 2 62.72 0.0000
MODEL MINUS INTERCEPT 1 0.48 0.4895
### Table 1: Variance Estimation Method
- Robust (Binder, 1983)

### Working Correlations
- Independent

### Link Function
- Generalized Logit

### Response variable
- NBRCO2_I: NBRCO2_I

#### NBRCO2_I (log-odds)

<table>
<thead>
<tr>
<th>Independent Variables and Effects</th>
<th>1 vs 2</th>
<th>Lower 95%</th>
<th>Upper 95%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td></td>
<td>1.55</td>
<td>0.79</td>
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<tr>
<td>MEDH01</td>
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<td>1.00</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>1.28</td>
<td>0.63</td>
</tr>
</tbody>
</table>

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### The SAS System
- 09:22 Monday, March 27, 2000 321

- Number of observations read: 646
- Weighted count: 10211
- Number of observations skipped: 125
- (WEIGHT variable nonpositive)
- Observations used in the analysis: 645
- Weighted count: 10194
- Denominator degrees of freedom: 96
- Maximum number of estimable parameters for the model: 2
- Independence parameters have converged in 2 iterations
- File COCHIMM3 contains 266 Clusters

266 clusters were used to fit the model
- Maximum cluster size is 8 records
- Minimum cluster size is 1 records

### Sample and Population Counts for Response Variable NBRCO2_I
- 1: Sample Count 450, Population Count 6761
- 2: Sample Count 195, Population Count 3433

-2 * Normalized Log-Likelihood with Intercepts Only: 824.16
-2 * Normalized Log-Likelihood Full Model: 824.02

Approximate Chi-Square (-2 * Log-L Ratio): 0.14

### Degrees of Freedom
- 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.
### Working Correlations: Independent

**Link Function: Generalized Logit**

**Response variable NBRCO2_I: NBRCO2_I**

<table>
<thead>
<tr>
<th>Contrast of Freedom</th>
<th>Wald</th>
<th>Degrees of Freedom</th>
<th>Wald ChiSq</th>
<th>ChiSq</th>
<th>P-value</th>
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<tbody>
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<tr>
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<tr>
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<td>0.7265</td>
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<tr>
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<td>0.12</td>
<td>0.7265</td>
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<td></td>
</tr>
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**Date:** 03-27-2000  
**Research Triangle Institute**  
**Page:** 3  
**Time:** 14:23:50  
**The MULTILOG Procedure**  
**Table:** 1  
**Variance Estimation Method:** Robust (Binder, 1983)  
**Working Correlations:** Independent  
**Link Function:** Generalized Logit  
**Response variable NBRCO2_I: NBRCO2_I**

### NBRCO2_I (log-odds)

**Independent Variables and Effects**  
**Lower 95%**  
**Upper 95%**  
**Odds Ratio**  
**Limit**  
**Limit**

<table>
<thead>
<tr>
<th>1 vs 2</th>
<th>Intercept</th>
<th>1.93</th>
<th>1.56</th>
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</thead>
<tbody>
<tr>
<td>PUBLINS</td>
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<tr>
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**The SAS System**  
**09:22 Monday, March 27, 2000 325**

**Number of observations read:** 646  
**Weighted count:** 10211  
**Number of observations skipped:** 125  
**(WEIGHT variable nonpositive)**  
**Observations used in the analysis:** 592  
**Weighted count:** 9353  
**Denominator degrees of freedom:** 96  
**Maximum number of estimable parameters for the model is:** 2  
**Independence parameters have converged in 3 iterations**  
**File COCHIMM3 contains 266 Clusters**  
**256 clusters were used to fit the model**  
**Maximum cluster size is 8 records**  
**Minimum cluster size is 1 records**  
**Sample and Population Counts for Response Variable NBRCO2_I**  
1: **Sample Count:** 412  
   **Population Count:** 6189  
2: **Sample Count:** 180  
   **Population Count:** 3164  
**-2 * Normalized Log-Likelihood with Intercepts Only:** 757.64  
**-2 * Normalized Log-Likelihood Full Model:** 756.96  
**Approximate Chi-Square (-2 * Log-L Ratio):** 0.69  
**Degrees of Freedom:** 1  

**Note:** The approximate Chi-Square is not adjusted for clustering.  
Refer to hypothesis test table for adjusted test.

---

**NBRCO2_I (log-odds)**

**Independent Variables and Effects**  
**P-value**  
**Beta**  
**T-Test**  
**SE Beta**  
**T-Test B=0**  
**B=0**
1 vs 2
Intercept     0.76     0.13    5.72     0.0000
POVBY2
  1          0.00     0.00         .        .
  2         -0.15    0.19     -0.79    0.4334

Date: 03-27-2000  Research Triangle Institute  Page : 2
Time: 14:23:53  The MULTILOG Procedure  Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

Contrast Degrees P-value
of Wald Wald ChiSq ChiSq
Freedom  Wald ChiSq

OVERALL MODEL  2     64.21     0.0000
MODEL MINUS INTERCEPT  1     0.62     0.4315
INTERCEPT .          .        .        .
POVBY2  1     0.62     0.4315

The SAS System 09:22 Monday, March 27, 2000 329
Number of observations read : 646 Weighted count: 10211
Number of observations skipped : 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 645 Weighted count: 10194
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 450 Population Count 6761
2: Sample Count 195 Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only : 824.16
-2 * Normalized Log-Likelihood Full Model : 820.59
Approximate Chi-Square (-2 * Log-L Ratio) : 3.57
Degrees of Freedom : 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

Date: 03-27-2000  Research Triangle Institute  Page : 1
### NBRCO2_I (log-odds)

<table>
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<tr>
<th>Independent Variables and Effects</th>
<th>Beta</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>B=0 P-value</th>
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#### 1 vs 2

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### Contrast Degrees of Freedom Wald ChiSq P-value

| OVERALL MODEL | 2 | 65.43 | 0.0000 |
| MODEL MINUS INTERCEPT | 1 | 2.76 | 0.0964 |
| INTERCEPT | . | . | . |
| MHUSEIN6 | 1 | 2.76 | 0.0964 |

---

### Odds Ratios

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**Number of observations read**: 646  
**Weighted count**: 10211  
**Number of observations skipped**: 125  
**(WEIGHT variable nonpositive)**  
**Observations used in the analysis**: 645  
**Weighted count**: 10194  
**Denominator degrees of freedom**: 96  
**Maximum number of estimable parameters for the model**: 2  
**Independence parameters have converged in 3 iterations**  
**File COCHIMM3 contains 266 Clusters**  
**266 clusters were used to fit the model**  
**Maximum cluster size is 8 records**  
**Minimum cluster size is 1 records**  
**Sample and Population Counts for Response Variable NBRCO2_I**
1: Sample Count  450  Population Count  6761
2: Sample Count  195  Population Count  3433

-2 * Normalized Log-Likelihood with Intercepts Only :  824.16
-2 * Normalized Log-Likelihood Full Model           :  823.33
Approximate Chi-Square (-2 * Log-L Ratio) :  0.82
Degrees of Freedom :  1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

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<th>Date: 03-27-2000</th>
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<tr>
<td>Time: 14:24:00</td>
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<td>Table : 1</td>
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<tr>
<td>Working Correlations: Independent</td>
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<tr>
<td>Link Function: Generalized Logit</td>
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<tr>
<td>Response variable NBRCO2_I: NBRCO2_I</td>
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<td>Link Function: Generalized Logit</td>
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<td>Response variable NBRCO2_I: NBRCO2_I</td>
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<th>Wald ChiSq</th>
<th>P-value</th>
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<td>0.3568</td>
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<td>Working Correlations: Independent</td>
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<td>Link Function: Generalized Logit</td>
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<tr>
<td>Response variable NBRCO2_I: NBRCO2_I</td>
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<th>Lower 95%</th>
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<td>Independent Variables and Effects</td>
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<td>1 vs 2</td>
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<table>
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<th>09:22 Monday, March 27, 2000 337</th>
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Number of observations skipped : 125  
(WEIGHT variable nonpositive)  
Observations used in the analysis : 645  Weighted count: 10194  
Denominator degrees of freedom : 96  
Maximum number of estimable parameters for the model is 3  
Independence parameters have converged in 3 iterations  
File COCHIMM3 contains 266 Clusters  
266 clusters were used to fit the model  
Maximum cluster size is 8 records  
Minimum cluster size is 1 records  
Sample and Population Counts for Response Variable NBRCO2_I  
1: Sample Count 450  Population Count 6761  
2: Sample Count 195  Population Count 3433  
-2 * Normalized Log-Likelihood with Intercepts Only : 824.16  
-2 * Normalized Log-Likelihood Full Model : 823.71  
Approximate Chi-Square (-2 * Log-L. Ratio) : 0.44  
Degrees of Freedom : 1  

Note: The approximate Chi-Square is not adjusted for clustering.  
Refer to hypothesis test table for adjusted test.

Date: 03-27-2000  Research Triangle Institute  
Time: 14:24:04  The MULTILOG Procedure  
Variance Estimation Method: Robust (Binder, 1983)  
Working Correlations: Independent  
Link Function: Generalized Logit  
Response variable NBRCO2_I: NBRCO2_I  

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<th>SE Beta</th>
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<th>P-value</th>
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<th>ChiSq</th>
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<tr>
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Date: 03-27-2000  Research Triangle Institute  
Time: 14:24:04  The MULTILOG Procedure  
Variance Estimation Method: Robust (Binder, 1983)  
Working Correlations: Independent  
Link Function: Generalized Logit  
Response variable NBRCO2_I: NBRCO2_I  

<table>
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<tr>
<th>Contrast</th>
<th>Degrees of Freedom</th>
<th>P-value</th>
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<tr>
<td>OVERALL MODEL</td>
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Date: 03-27-2000  Research Triangle Institute  
Time: 14:24:04  The MULTILOG Procedure  
Variance Estimation Method: Robust (Binder, 1983)  
Working Correlations: Independent  
Link Function: Generalized Logit  
Response variable NBRCO2_I: NBRCO2_I  

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<th>Contrast</th>
<th>Degrees of Freedom</th>
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<td>OVERALL MODEL</td>
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<td>Independent Variables and Effects</td>
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<td>Upper 95% Limit</td>
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<tr>
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<td>Odds Ratio</td>
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The SAS System 09:22 Monday, March 27, 2000 341

Number of observations read : 646 Weighted count: 10211
Number of observations skipped : 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 645 Weighted count: 10194
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 3
Independence parameters have converged in 4 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 450 Population Count 6761
2: Sample Count 195 Population Count 3433

-2 * Normalized Log-Likelihood with Intercepts Only : 824.16
-2 * Normalized Log-Likelihood Full Model : 798.22
Approximate Chi-Square (-2 * Log-L Ratio) : 25.94
Degrees of Freedom : 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.
<table>
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<tr>
<th>Effect</th>
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The SAS System 09:22 Monday, March 27, 2000 345

Number of observations read: 646  Weighted count: 10211
Number of observations skipped: 125  (WEIGHT variable nonpositive)
Observations used in the analysis: 410  Weighted count: 6578
Denominator degrees of freedom: 96
Maximum number of estimable parameters for the model is 3
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
207 clusters were used to fit the model
Maximum cluster size is 6 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 274  Population Count 4155
2: Sample Count 136  Population Count 2423
-2 * Normalized Log-Likelihood with Intercepts Only: 539.63
-2 * Normalized Log-Likelihood Full Model: 539.47
Approximate Chi-Square (-2 * Log-L Ratio): 0.16
Degrees of Freedom: 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.
### Variance Estimation Method:
Robust (Binder, 1983)

### Working Correlations:
Independent

### Link Function:
Generalized Logit

### Response variable:
NBRCO2_I: NBRCO2_I

#### Contrast Table

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<tr>
<th>Contrast</th>
<th>Degrees of Freedom</th>
<th>Wald ChiSq</th>
<th>ChiSq</th>
<th>P-value</th>
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#### NBRCO2_I (log-odds)

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<th>Effect</th>
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The SAS System 09:22 Monday, March 27, 2000 349

Number of observations read: 646  Weighted count: 10211
Number of observations skipped: 125 (WEIGHT variable nonpositive)
Observations used in the analysis: 645  Weighted count: 10194
Denominator degrees of freedom: 96
Maximum number of estimable parameters for the model is 2
Independence parameters have converged in 4 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 450  Population Count 6761
2: Sample Count 195  Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only: 824.16
-2 * Normalized Log-Likelihood Full Model: 803.94
Approximate Chi-Square (-2 * Log-L Ratio): 20.21
Degrees of Freedom: 1

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.
### NBRCO2_I (log-odds)

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<th>Independent Variables and Effects</th>
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<th>SE Beta</th>
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1 vs 2

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| Date: 03-27-2000 | Research Triangle Institute | Page: 2 |
| Time: 14:24:15 | The MULTILOG Procedure | Table: 1 |
| Variance Estimation Method: Robust (Binder, 1983) |
| Working Correlations: Independent |
| Link Function: Generalized Logit |
| Response variable NBRCO2_I: NBRCO2_I |

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<th>P-value ChiSq</th>
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1 vs 2

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<tr>
<td>2</td>
<td>2.48</td>
<td>1.59</td>
<td>3.87</td>
</tr>
</tbody>
</table>

The SAS System 09:22 Monday, March 27, 2000 353

Number of observations read: 646 Weighted count: 10211
Number of observations skipped: 125 (WEIGHT variable nonpositive)
Observations used in the analysis: 645 Weighted count: 10194
Denominator degrees of freedom: 96
Maximum number of estimable parameters for the model: 3
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 450 Population Count 6761
2: Sample Count 195 Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only: 824.16
-2 * Normalized Log-Likelihood Full Model: 809.68
Approximate Chi-Square (-2 * Log-L Ratio): 14.47
Degrees of Freedom : 2

Note: The approximate Chi-Square is not adjusted for clustering. Refer to hypothesis test table for adjusted test.

**NBRCO2_I (log-odds)**

<table>
<thead>
<tr>
<th>Independent Variables and Effects</th>
<th>Beta Coeff.</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>B=0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>0.22</td>
<td>0.16</td>
<td>1.41</td>
<td>0.1607</td>
</tr>
<tr>
<td>M3EDUC 1</td>
<td>0.00</td>
<td>0.00</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>M3EDUC 2</td>
<td>0.56</td>
<td>0.22</td>
<td>2.49</td>
<td>0.0144</td>
</tr>
<tr>
<td>M3EDUC 3</td>
<td>0.79</td>
<td>0.24</td>
<td>3.25</td>
<td>0.0016</td>
</tr>
</tbody>
</table>

**Contrast Degrees P-value**

<table>
<thead>
<tr>
<th>of Wald Freedom Wald ChiSq</th>
<th>ChiSq</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
<td>3</td>
</tr>
<tr>
<td>MODEL MINUS INTERCEPT</td>
<td>2</td>
</tr>
<tr>
<td>INTERCEPT</td>
<td>.</td>
</tr>
<tr>
<td>M3EDUC</td>
<td>2</td>
</tr>
</tbody>
</table>

**NBRCO2_I (log-odds)**

<table>
<thead>
<tr>
<th>Independent Variables and Effects</th>
<th>Odds Ratio</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>1.25</td>
<td>0.91</td>
<td>1.71</td>
</tr>
<tr>
<td>M3EDUC 1</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>M3EDUC 2</td>
<td>1.75</td>
<td>1.12</td>
<td>2.73</td>
</tr>
<tr>
<td>M3EDUC 3</td>
<td>2.20</td>
<td>1.36</td>
<td>3.56</td>
</tr>
</tbody>
</table>

The SAS System 09:22 Monday, March 27, 2000 357

Number of observations read : 646  Weighted count: 10211
Number of observations skipped : 125 (WEIGHT variable nonpositive)
Observations used in the analysis : 645  Weighted count: 10194
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 3
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 450 Population Count 6761
2: Sample Count 195 Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only : 824.16
Approximate Chi-Square (-2 * Log-L Ratio) : 6.04
Degrees of Freedom : 2

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

Date: 03-27-2000 Research Triangle Institute
Time: 14:24:22 The MULTILOG Procedure
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>NBRCO2_I (log-odds)</th>
<th>Beta</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>B=0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>0.58</td>
<td>0.16</td>
<td>3.64</td>
<td>0.0004</td>
</tr>
<tr>
<td>F3EDUC 1</td>
<td>0.00</td>
<td>0.00</td>
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</tr>
<tr>
<td>2</td>
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<td>0.21</td>
<td>-0.22</td>
<td>0.8273</td>
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<tr>
<td>3</td>
<td>0.45</td>
<td>0.26</td>
<td>1.70</td>
<td>0.0916</td>
</tr>
</tbody>
</table>

Date: 03-27-2000 Research Triangle Institute
Time: 14:24:22 The MULTILOG Procedure
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

Contrast Degrees of Freedom Wald Wald ChiSq ChiSq P-value
OVERALL MODEL 3 66.98 0.0000
MODEL MINUS INTERCEPT 2 4.51 0.1050
INTERCEPT . . . . .
F3EDUC 2 4.51 0.1050

Date: 03-27-2000 Research Triangle Institute
Time: 14:24:22 The MULTILOG Procedure
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>NBRCO2_I (log-odds)</th>
<th>Lower 95%</th>
<th>Upper 95%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>F3EDUC 1</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>2</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>3</td>
<td>.</td>
<td>.</td>
</tr>
</tbody>
</table>
1 vs 2
Intercept  1.79  1.30  2.46
F3EDUC
1  1.00  1.00  1.00
2  0.96  0.64  1.44
3  1.56  0.93  2.63

The SAS System 09:22 Monday, March 27, 2000 361
Number of observations read :  646  Weighted count:  10211
Number of observations skipped :  125
(WEIGHT variable nonpositive)
Observations used in the analysis :  494  Weighted count:  7845
Denominator degrees of freedom :  96
Maximum number of estimable parameters for the model is  3
Independence parameters have converged in 4 iterations
File COCHIMM3 contains  266 Clusters
238 clusters were used to fit the model
Maximum cluster size is  7 records
Minimum cluster size is  1 records
Sample and Population Counts for Response Variable NBRCO2_I
1:  Sample Count      341    Population Count      5152
2:  Sample Count      153    Population Count      2693
-2 * Normalized Log-Likelihood with Intercepts Only :   635.46
-2 * Normalized Log-Likelihood Full Model           :   627.76
Approximate Chi-Square (-2 * Log-L Ratio)           :     7.70
Degrees of Freedom                                  :        2
Note: The approximate Chi-Square is not adjusted for clustering.
    Refer to hypothesis test table for adjusted test.

Date: 03-27-2000 Research Triangle Institute Page : 1
Time: 14:24:26 The MULTILOG Procedure Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

NBRCO2_I (log-odds)
Independent Variables and Effects
           P-value
Variables   Coeff.   SE Beta   T-Test B=0  B=0
-------------
1 vs 2
Intercept  0.35  0.17  2.05  0.0428
MFEDUC
1  0.97  0.40  2.45  0.0163
2  0.37  0.22  1.74  0.0854
3  0.00  0.00  .  .

Date: 03-27-2000 Research Triangle Institute Page : 2
Time: 14:24:26 The MULTILOG Procedure Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

Contrast of Freedom P-value
of Wald Wald ChiSq ChiSq
-------------
OVERALL MODEL 3  47.64  0.0000
MODEL MINUS
INTERCEPT  2  7.30  0.0260
INTERCEPT  .  .  .
### NBRCO2_I (log-odds)

<table>
<thead>
<tr>
<th>Variables and Effects</th>
<th>Odds Ratio</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>1.42</td>
<td>1.01</td>
<td>1.98</td>
</tr>
<tr>
<td>MFEDUC 1</td>
<td>2.63</td>
<td>1.20</td>
<td>5.77</td>
</tr>
<tr>
<td>MFEDUC 2</td>
<td>1.45</td>
<td>0.95</td>
<td>2.23</td>
</tr>
<tr>
<td>MFEDUC 3</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
</tbody>
</table>

The SAS System 09:22 Monday, March 27, 2000 365

Number of observations read : 646  Weighted count: 10211
Number of observations skipped: 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 645  Weighted count: 10194
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 3
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records

Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 450  Population Count 6761
2: Sample Count 195  Population Count 3433

-2 * Normalized Log-Likelihood with Intercepts Only: 824.16
-2 * Normalized Log-Likelihood Full Model: 823.46
Approximate Chi-Square (-2 * Log-L Ratio): 0.70
Degrees of Freedom: 2

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.
<table>
<thead>
<tr>
<th>Contrast</th>
<th>Degrees of Freedom</th>
<th>Wald</th>
<th>Wald ChiSq</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
<td>3</td>
<td>67.51</td>
<td>0.0000</td>
<td></td>
</tr>
<tr>
<td>MODEL MINUS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERCEPT</td>
<td>2</td>
<td>0.55</td>
<td>0.7601</td>
<td></td>
</tr>
<tr>
<td>INTERCEPT</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td></td>
</tr>
<tr>
<td>INCOME</td>
<td>2</td>
<td>0.55</td>
<td>0.7601</td>
<td></td>
</tr>
</tbody>
</table>

### NBRCO2_I (log-odds)

**Independent Variables and Effects**

<table>
<thead>
<tr>
<th>Lower 95%</th>
<th>Upper 95%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>1.88</td>
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</tbody>
</table>

**INCOME**

<table>
<thead>
<tr>
<th>Lower 95%</th>
<th>Upper 95%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1.00</td>
</tr>
<tr>
<td>2</td>
<td>1.06</td>
</tr>
<tr>
<td>3</td>
<td>1.23</td>
</tr>
<tr>
<td>Independent Variables and Effects</td>
<td>Beta Coeff.</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Intercept</td>
<td>1.07</td>
</tr>
<tr>
<td>MOVES</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>0.00</td>
</tr>
<tr>
<td>2</td>
<td>-0.52</td>
</tr>
<tr>
<td>3</td>
<td>-0.91</td>
</tr>
</tbody>
</table>

Date: 03-27-2000 Research Triangle Institute
Time: 14:24:33 The MULTILOG Procedure
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

Contrast Degrees of Freedom Wald Wald ChiSq P-value ChiSq
OVERALL MODEL 3 72.07 0.0000
MODEL MINUS INTERCEPT 2 19.94 0.0000
INTERCEPT . . . .
MOVES 2 19.94 0.0000

Date: 03-27-2000 Research Triangle Institute
Time: 14:24:33 The MULTILOG Procedure
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

NBRCO2_I (log-odds)

<table>
<thead>
<tr>
<th>Independent Variables and Effects</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>2.18</td>
<td>3.89</td>
</tr>
<tr>
<td>MOVES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2</td>
<td>0.37</td>
<td>0.95</td>
</tr>
<tr>
<td>3</td>
<td>0.27</td>
<td>0.60</td>
</tr>
</tbody>
</table>

The SAS System 09:22 Monday, March 27, 2000 373

Number of observations read : 646 Weighted count: 10211
Number of observations skipped : 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 592 Weighted count: 9353
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 3
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
256 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 412 Population Count 6189
2: Sample Count 180 Population Count 3164
-2 * Normalized Log-Likelihood with Intercepts Only : 757.64
-2 * Normalized Log-Likelihood Full Model : 754.95
Approximate Chi-Square (-2 * Log-L Ratio) : 2.69
Degrees of Freedom : 2

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

Date: 03-27-2000  Research Triangle Institute  Page : 1
Time: 14:24:36  The MULTILOG Procedure  Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

NBRCO2_I (log-odds)
Independent Variables and Effects
Beta Coeff. SE Beta T-Test B=0 B=0

1 vs 2
Intercept 0.76 0.13 5.72 0.0000
POVERC
1 0.00 0.00 . .
2 0.04 0.24 0.16 0.8734
3 -0.28 0.22 -1.31 0.1931

Contrast Degrees P-value of Wald Freedom Wald ChiSq ChiSq
OVERALL MODEL 3 64.46 0.0000
MODEL MINUS INTERCEPT 2 2.17 0.3376
INTERCEPT . .
POVERC 2 2.17 0.3376

NBRCO2_I (log-odds)
Independent Variables and Effects
Odds Ratio Lower 95% Upper 95%

1 vs 2
Intercept 2.14 1.64 2.78
POVERC
1 1.00 1.00 1.00
2 1.04 0.64 1.68
3 0.75 0.49 1.16

The SAS System 09:22 Monday, March 27, 2000 377

Number of observations read : 646  Weighted count: 10211
Number of observations skipped : 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 645  Weighted count: 10194
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 3
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
266 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 450 Population Count 6761
2: Sample Count 195 Population Count 3433
-2 * Normalized Log-Likelihood with Intercepts Only : 824.16
-2 * Normalized Log-Likelihood Full Model : 814.89
Approximate Chi-Square (-2 * Log-L Ratio) : 9.27
Degrees of Freedom : 2

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

Date: 03-27-2000 Research Triangle Institute
Time: 14:24:40 The MULTILOG Procedure
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

------------------------------------------------------------------
NBRCO2_I (log-odds)
Independent Variables and Effects
                Beta      Coef.     SE Beta  T-Test B=0  B=0
------------------------------------------------------------------
1 vs 2
Intercept  1.16  0.19       6.12  0.0000
CHILD18  1          .00       0.00  .     .
2          -0.43  0.23      -1.87  0.0641
3          -0.68  0.24      -2.81  0.0060
------------------------------------------------------------------
### 1 vs 2

<table>
<thead>
<tr>
<th>Intercept</th>
<th>3.18</th>
<th>2.19</th>
<th>4.63</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHILD18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2</td>
<td>0.65</td>
<td>0.41</td>
<td>1.03</td>
</tr>
<tr>
<td>3</td>
<td>0.51</td>
<td>0.31</td>
<td>0.82</td>
</tr>
</tbody>
</table>

The SAS System 09:22 Monday, March 27, 2000

- Number of observations read: 646  
  Weighted count: 10211
- Number of observations skipped: 125  
  (WEIGHT variable nonpositive)
- Observations used in the analysis: 616  
  Weighted count: 9726
- Denominator degrees of freedom: 96
- Maximum number of estimable parameters for the model is 3
- Independence parameters have converged in 3 iterations
- File COCHIMM3 contains 266 Clusters
  262 clusters were used to fit the model
- Maximum cluster size is 8 records
- Minimum cluster size is 1 records

**Sample and Population Counts for Response Variable NBRCO2_I**

- 1: Sample Count: 435  
  Population Count: 6531
- 2: Sample Count: 181  
  Population Count: 3195

### -2 * Normalized Log-Likelihood

- With Intercepts Only: 780.01
- Full Model: 771.21

### Approximate Chi-Square

- Wald Chi-Square: 8.80
- Degrees of Freedom: 2

Note: The approximate Chi-Square is not adjusted for clustering.

Refer to hypothesis test table for adjusted test.
### NBRCO2_I (log-odds)

#### Independent

<table>
<thead>
<tr>
<th>Variables and Effects</th>
<th>Lower 95%</th>
<th>Upper 95%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>2.13</td>
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</tr>
<tr>
<td>1</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2</td>
<td>0.57</td>
<td>0.87</td>
</tr>
<tr>
<td>3</td>
<td>0.52</td>
<td>1.17</td>
</tr>
</tbody>
</table>

### NBRCO2_I (log-odds)

#### Independent

<table>
<thead>
<tr>
<th>Variables and Effects</th>
<th>Beta</th>
<th>SE Beta</th>
<th>T-Test</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>0.95</td>
<td>0.19</td>
<td>5.13</td>
<td>0.0000</td>
</tr>
<tr>
<td>MAGE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>0.00</td>
<td>0.00</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>-0.52</td>
<td>0.28</td>
<td>-1.83</td>
<td>0.0708</td>
</tr>
<tr>
<td>3</td>
<td>-0.34</td>
<td>0.23</td>
<td>-1.50</td>
<td>0.1370</td>
</tr>
<tr>
<td>Contrast</td>
<td>Degrees of Freedom</td>
<td>Wald ChiSq</td>
<td>ChiSq</td>
<td>P-value</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------</td>
<td>------------</td>
<td>-------</td>
<td>---------</td>
</tr>
<tr>
<td>OVERALL MODEL</td>
<td>3</td>
<td>64.67</td>
<td>0.0000</td>
<td></td>
</tr>
<tr>
<td>MODEL MINUS INTERCEPT</td>
<td>2</td>
<td>3.59</td>
<td>0.1659</td>
<td></td>
</tr>
<tr>
<td>INTERCEPT</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td></td>
</tr>
<tr>
<td>MAGE</td>
<td>2</td>
<td>3.59</td>
<td>0.1659</td>
<td></td>
</tr>
</tbody>
</table>

### NBRCO2_I (log-odds)

#### Independent Variables and Effects

<table>
<thead>
<tr>
<th>Effects</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 vs 2</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Intercept</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>MAGE</td>
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<td>1.12</td>
</tr>
<tr>
<td>3</td>
<td>0.46</td>
<td>1.12</td>
</tr>
</tbody>
</table>

---

**Note:** The approximate Chi-Square is not adjusted for clustering. Refer to hypothesis test table for adjusted test.
1 vs 2
Intercept             0.65      0.11      5.99      0.0000
INSURE                0.00      0.00      .        .
  1
  2                     0.29      0.21      1.38      0.1713
  3                    -0.62      0.31     -2.01      0.0477

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Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>Contrast</th>
<th>Degrees Freedom</th>
<th>Wald ChiSq</th>
<th>ChiSq</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
<td>3</td>
<td>65.79</td>
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<tr>
<td>MODEL MINUS</td>
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</tr>
<tr>
<td>INTERCEPT</td>
<td>2</td>
<td>8.09</td>
<td>0.0175</td>
</tr>
<tr>
<td>INSURE</td>
<td>2</td>
<td>8.09</td>
<td>0.0175</td>
</tr>
</tbody>
</table>

NBRCO2_I (log-odds)
Independent Variables and Effects
Odds Ratio      Lower 95%      Upper 95%
1 vs 2
Intercept           1.91      1.54      2.37
INSURE
  1             1.00      1.00      1.00
  2             1.34      0.88      2.05
  3             0.54      0.29      0.99

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

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Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>Variables and Effects</th>
<th>Independent</th>
<th>Beta Coeff.</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>B=0 P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 vs 2</td>
<td>Intercept</td>
<td>0.55</td>
<td>0.12</td>
<td>4.43</td>
<td>0.0000</td>
</tr>
<tr>
<td></td>
<td>GENDER</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>1</td>
<td>0.00</td>
<td>0.00</td>
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</tr>
<tr>
<td></td>
<td>2</td>
<td>0.26</td>
<td>0.18</td>
<td>1.45</td>
<td>0.1496</td>
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</table>

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Time: 14:24:54  The MULTILOG Procedure  Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>Contrast of Wald Freedom</th>
<th>Wald ChiSq</th>
<th>ChiSq P-value</th>
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</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
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<td>67.66</td>
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<tr>
<td>MODEL MINUS INTERCEPT</td>
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<td>2.11</td>
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<td>INTERCEPT</td>
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<tr>
<td>GENDER</td>
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<td>2.11</td>
</tr>
</tbody>
</table>

Date: 03-27-2000  Research Triangle Institute  Page : 3
Time: 14:24:54  The MULTILOG Procedure  Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

<table>
<thead>
<tr>
<th>Variables and Effects</th>
<th>Independent</th>
<th>Lower 95% Limit</th>
<th>Upper 95% Limit</th>
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</thead>
<tbody>
<tr>
<td>1 vs 2</td>
<td>Intercept</td>
<td>1.35</td>
<td>2.21</td>
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<td>GENDER</td>
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<tr>
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<td>1.00</td>
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<tr>
<td></td>
<td>2</td>
<td>0.91</td>
<td>1.87</td>
</tr>
</tbody>
</table>

The SAS System  09:22 Monday, March 27, 2000 397
Number of observations read : 646  Weighted count: 10211
Number of observations skipped : 125
(WEIGHT variable nonpositive)
Observations used in the analysis : 603  Weighted count: 9534
Denominator degrees of freedom : 96
Maximum number of estimable parameters for the model is 5
Independence parameters have converged in 3 iterations
File COCHIMM3 contains 266 Clusters
262 clusters were used to fit the model
Maximum cluster size is 8 records
Minimum cluster size is 1 records
Sample and Population Counts for Response Variable NBRCO2_I
1: Sample Count 419 Population Count 6299
2: Sample Count 181 Population Count 3190
-2 * Normalized Log-Likelihood with Intercepts Only : 769.98
-2 * Normalized Log-Likelihood Full Model : 764.67
Approximate Chi-Square (-2 * Log-L Ratio) : 5.31
Degrees of Freedom : 3

Note: The approximate Chi-Square is not adjusted for clustering.
Refer to hypothesis test table for adjusted test.

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Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

### NBRCO2_I (log-odds)

<table>
<thead>
<tr>
<th>Independent Variables and Effects</th>
<th>Beta</th>
<th>Coeff.</th>
<th>SE Beta</th>
<th>T-Test B=0</th>
<th>T-Test B=0</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 vs 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intercept</td>
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<td>0.12</td>
<td>4.65</td>
<td>0.0000</td>
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</tbody>
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Time: 14:24:58                       The MULTILOG Procedure                          Table : 1
Variance Estimation Method: Robust (Binder, 1983)
Working Correlations: Independent
Link Function: Generalized Logit
Response variable NBRCO2_I: NBRCO2_I

### Contrast

<table>
<thead>
<tr>
<th>Degrees</th>
<th>Wald</th>
<th>Wald ChiSq</th>
<th>ChiSq</th>
<th>P-value</th>
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</thead>
<tbody>
<tr>
<td>OVERALL MODEL</td>
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<td>MEDHTYPE</td>
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<td>3.92</td>
<td>0.2705</td>
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</tbody>
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Date: 03-27-2000                   Research Triangle Institute                       Page : 3
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### NBRCO2_I (log-odds)

<table>
<thead>
<tr>
<th>Independent Variables and Effects</th>
<th>Lower 95%</th>
<th>Upper 95%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 vs 2</td>
<td></td>
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<tr>
<td>Intercept</td>
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