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| **Supplemental Table 1.** Trajectories of Alcohol Use, Unadjusted Model: Censored Normal (N=597) | | | | |  |
| Group | Parameter | Estimate | Standard Error | T for H0: Parameter=0 | Prob > |T| |
| 1 | Intercept | 2.78 | .49 | 5.62 | <.0001 |
|  | Linear | -1.78 | .36 | .36 | <.0001 |
|  | Quadratic | .25 | .05 | 4.50 | <.0001 |
|  | Cubic | -.01 | .00 | -3.73 | <.001 |
| 2 | Intercept | -2.86 | .74 | -3.90 | <.001 |
|  | Linear | .96 | .34 | 2.81 | <.01 |
|  | Quadratic | -.07 | .05 | -1.45 | .15 |
|  | Cubic | .00 | .00 | .70 | .48 |
| 3 | Intercept | 2.19 | .13 | 17.30 | <.0001 |
|  | Linear | -.63 | .07 | -8.62 | <.0001 |
|  | Quadratic | .11 | .01 | 9.40 | <.0001 |
|  | Cubic | -.00 | .00 | -9.05 | <.0001 |
| 4 | Intercept | 1.70 | .37 | 4.58 | <.0001 |
|  | Linear | -.60 | .21 | -2.87 | <.01 |
|  | Quadratic | .08 | .03 | 2.65 | <.01 |
|  | Cubic | -.00 | 00 | -2.62 | <.01 |
| 5 | Intercept | 2.41 | .23 | 10.30 | <.0001 |
|  | Linear | -.25 | .14 | -1.73 | .08 |
|  | Quadratic | .07 | .02 | 3.20 | <.01 |
|  | Cubic | -.00 | .00 | -3.70 | <.001 |
| Sigma |  | 1.14 | .02 | 75.42 | <.0001 |
| Group Membership | | | | | |
| 1 | (%) | 7.14 | 2.54 | 2.81 | <.01 |
| 2 | (%) | 10.61 | 1.74 | 6.08 | <.0001 |
| 3 | (%) | 52.95 | 3.20 | 16.54 | <.0001 |
| 4 | (%) | 15.04 | 2.85 | 5.28 | <.0001 |
| 5 | (%) | 14.25 | 2.33 | 6.12 | <.0001 |

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| **Supplemental Table 2.** Trajectories of Alcohol Use, Unadjusted Model: Zero Inflated Poisson (N=597) | | | | |  |
| Group | Parameter | Estimate | Standard Error | T for H0: Parameter=0 | Prob > |T| |
| 1 | Intercept | 1.17 | .22 | 5.37 | <.0001 |
|  | Linear | -.24 | .12 | -1.92 | .06 |
|  | Quadratic | .05 | .02 | 2.62 | <.01 |
|  | Cubic | -.00 | .00 | -2.61 | <.01 |
|  | Alpha0 | -1.05 | .22 | -4.87 | <.0001 |
|  | Alpha1 | -.15 | .03 | -4.82 | <.0001 |
| 2 | Intercept | .86 | .22 | 3.96 | <.001 |
|  | Linear | -.31 | .12 | -2.66 | <.01 |
|  | Quadratic | .05 | .02 | 2.94 | <.01 |
|  | Cubic | -.00 | .00 | -2.87 | <.01 |
|  | Alpha0 | -.53 | .19 | -2.84 | <.01 |
|  | Alpha1 | -.06 | .02 | -2.45 | .01 |
| 3 | Intercept | 2.99 | .10 | 31.08 | <.0001 |
|  | Linear | -1.01 | .10 | -9.96 | <.0001 |
|  | Quadratic | .15 | .02 | 7.46 | <.0001 |
|  | Cubic | -.01 | .00 | -6.53 | <.0001 |
|  | Alpha0 | -1.31 | .24 | -5.38 | <.0001 |
|  | Alpha1 | -.04 | .03 | -1.27 | .21 |
| 4 | Intercept | 1.38 | .13 | 10.25 | <.0001 |
|  | Linear | .30 | .07 | 4.08 | <.0001 |
|  | Quadratic | -.01 | .01 | -.86 | .39 |
|  | Cubic | -.01 | .00 | -.75 | .45 |
|  | Alpha0 | -1.78 | .46 | -3.84 | <.001 |
|  | Alpha1 | -.12 | .08 | -1.46 | .14 |
| 5 | Intercept | 1.69 | .06 | 27.98 | <.0001 |
|  | Linear | .07 | .02 | 3.91 | <.001 |
|  | Quadratic | -.00 | .00 | -2.65 | <.01 |
|  | Alpha0 | -1.52 | .24 | -6.45 | <.0001 |
|  | Alpha1 | -.15 | .04 | -3.65 | <.001 |
| Group Membership | | | | | |
| 1 | (%) | 27.70 | 3.18 | 8.71 | <.0001 |
| 2 | (%) | 30.24 | 2.61 | 11.59 | <.0001 |
| 3 | (%) | 21.04 | 2.64 | 7.97 | <.0001 |
| 4 | (%) | 4.62 | .94 | 4.93 | <.0001 |
| 5 | (%) | 16.38 | 1.77 | 9.25 | <.0001 |

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| **Supplemental Table 3.** Trajectories of Marijuana Use, Unadjusted Model: Censored Normal (N=597) | | | | |  |
| Group | Parameter | Estimate | Standard Error | T for H0: Parameter=0 | Prob > |T| |
| 1 | Intercept | -1.83 | .16 | -11.52 | <.0001 |
|  | Linear | .03 | .02 | 1.47 | .14 |
| 2 | Intercept | -2.31 | .48 | -4.80 | <.0001 |
|  | Linear | .60 | .13 | 4.76 | <.0001 |
|  | Quadratic | -.02 | .01 | -2.07 | .04 |
| 3 | Intercept | -.36 | .52 | -.70 | .48 |
|  | Linear | 1.42 | .27 | 5.26 | <.0001 |
|  | Quadratic | -.16 | .04 | -4.00 | <.001 |
|  | Cubic | .01 | .00 | 3.05 | <.01 |
| 4 | Intercept | 2.27 | .26 | 863 | <.0001 |
|  | Linear | -.22 | .08 | -2.58 | <.01 |
|  | Quadratic | .00 | .01 | .14 | .89 |
| 5 | Intercept | 3.30 | .20 | 16.53 | <.0001 |
|  | Linear | .31 | .06 | 4.91 | <.0001 |
|  | Quadratic | -.01 | .00 | -2.99 | <.01 |
| Sigma |  | 1.66 | .03 | 62.69 | <.0001 |
|  | | | | | |
| 1 | (%) | 37.50 | 2.40 | 15.62 | <.0001 |
| 2 | (%) | 14.25 | 2.12 | 6.73 | <.0001 |
| 3 | (%) | 13.87 | 2.02 | 6.86 | <.0001 |
| 4 | (%) | 14.48 | 1.93 | 7.51 | <.0001 |
| 5 | (%) | 19.91 | 1.97 | 10.12 | <.0001 |

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| **Supplemental Table 4.** Trajectories of Marijuana Use, Unadjusted Model: Zero Inflated Poisson (N=597) | | | | |  |
| Group | Parameter | Estimate | Standard Error | T for H0: Parameter=0 | Prob > |T| |
| 1 | Intercept | -.10 | .15 | -.69 | .49 |
|  | Linear | .05 | .02 | 3.17 | <.01 |
|  | Alpha0 | .94 | .15 | 6.17 | <.0001 |
|  | Alpha1 | .00 | .02 | .10 | .92 |
| 2 | Intercept | 1.00 | .08 | 12.91 | <.0001 |
|  | Linear | .42 | .02 | 22.25 | <.0001 |
|  | Quadratic | -.02 | .00 | -17.82 | <.0001 |
|  | Alpha0 | -.22 | .27 | -.81 | .42 |
|  | Alpha1 | -.44 | .07 | -6.21 | <.0001 |
| 3 | Intercept | .29 | .17 | 1.73 | .08 |
|  | Linear | .21 | .04 | 5.11 | <.0001 |
|  | Quadratic | -.00 | .00 | -.32 | .75 |
|  | Alpha0 | .25 | .24 | 1.05 | .29 |
|  | Alpha1 | -.18 | .04 | -4.80 | <.0001 |
| 4 | Intercept | 2.26 | .05 | 41.47 | <.0001 |
|  | Linear | -.08 | .02 | -4.38 | <.0001 |
|  | Quadratic | .00 | .00 | 1.93 | .05 |
|  | Alpha0 | -1.54 | .19 | -8.03 | <.0001 |
|  | Alpha1 | .07 | .002 | 3.17 | <.01 |
| 5 | Intercept | 2.92 | .02 | 116.96 | <.0001 |
|  | Linear | .07 | .01 | 8.43 | <.0001 |
|  | Quadratic | -.00 | .00 | -6.48 | <.0001 |
|  | Alpha0 | -2.47 | .24 | -10.15 | <.0001 |
|  | Alpha1 | -.00 | .03 | -.12 | .91 |
| Group Membership | | | | | |
| 1 | (%) | 44.45 | 2.27 | 19.53 | <.0001 |
| 2 | (%) | 11.77 | 1.46 | 8.07 | <.0001 |
| 3 | (%) | 11.22 | 1.63 | 6.86 | <.0001 |
| 4 | (%) | 13.04 | 1.50 | 8.70 | <.0001 |
| 5 | (%) | 19.52 | 1.66 | 11.75 | <.0001 |

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| **Supplemental Table 5.** Trajectories of Alcohol Use, Adjusted Model: Censored Normal Model with Risk Factors (N=597) | | | | | |
| Group | Parameter | Estimate | Standard Error | T for H0: Parameter=0 | Prob > |T| |
| 1 | Intercept | 2.76 | .43 | 6.49 | <.0001 |
|  | Linear | -1.70 | .27 | -6.24 | <.0001 |
|  | Quadratic | .23 | .04 | 5.47 | <.0001 |
|  | Cubic | -.01 | .00 | -4.31 | <.0001 |
| 2 | Intercept | -2.70 | .67 | -4.05 | <.001 |
|  | Linear | .91 | .32 | 2.87 | <.01 |
|  | Quadratic | -.06 | .03 | -1.37 | .17 |
|  | Cubic | .00 | .00 | .56 | .58 |
| 3 | Intercept | 2.25 | .12 | 18.01 | <.0001 |
|  | Linear | -.63 | .07 | -8.67 | <.0001 |
|  | Quadratic | .11 | .01 | 9.45 | <.0001 |
|  | Cubic | -.00 | .00 | -9.13 | <.0001 |
| 4 | Intercept | 1.59 | .34 | 4.60 | <.0001 |
|  | Linear | -.55 | .19 | -2.87 | <.01 |
|  | Quadratic | .08 | .03 | 2.72 | <.01 |
|  | Cubic | -.00 | .00 | -2.74 | <.01 |
| 5 | Intercept | 2.40 | .24 | 9.91 | <.0001 |
|  | Linear | -.25 | .15 | -1.65 | .10 |
|  | Quadratic | .08 | .02 | 3.16 | <.01 |
|  | Cubic | -.00 | .00 | -3.68 | <.001 |
| Sigma | | 1.14 | .02 | 75.75 | <.0001 |
| Group Membership | | | | | |
| 1 | *Reference Group (Ref.)* | | | | |
| 2 | Constant | -1.40 | .89 | -1.58 | .11 |
|  | White | *Ref.* | -- | -- | -- |
|  | Black | 1.47 | 1.00 | 1.46 | .14 |
|  | Hispanic | 1.96 | .99 | 1.99 | .05 |
|  | Other | 3.09 | 1.36 | 2.27 | .02 |
| 3 | Constant | 2.09 | .39 | 5.37 | <.0001 |
|  | White | *Ref.* | -- | -- | -- |
|  | Black | -1.35 | .59 | -2.30 | .02 |
|  | Hispanic | -.07 | .56 | -.14 | .90 |
|  | Other | .73 | 1.07 | .68 | .49 |
| 4 | Constant | .19 | 59 | .32 | .75 |
|  | White | *Ref.* | -- | -- | -- |
|  | Black | .15 | .80 | .19 | .85 |
|  | Hispanic | .75 | .75 | 1.00 | .32 |
|  | Other | 1.49 | 1.38 | 1.17 | .24 |
| 5 | Constant | 1.24 | .43 | 2.89 | <.01 |
|  | White | *Ref.* | -- | -- | -- |
|  | Black | -2.38 | .80 | -2.98 | <.01 |
|  | Hispanic | -1.44 | .70 | -2.06 | .04 |
|  | Other | .57 | 1.11 | .51 | .61 |

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| **Supplemental Table 6.** Trajectories of Alcohol Use, Adjusted Model: ZIP Model with Risk Factors (N=597) | | | | | |
| Group | Parameter | Estimate | Standard Error | T for H0: Parameter=0 | Prob > |T| |
| 1 | Intercept | 3.04 | .13 | 22.91 | <.0001 |
|  | Linear | -.92 | .12 | -7.56 | <.0001 |
|  | Quadratic | .08 | .02 | 3.86 | <.001 |
|  | Cubic | -.00 | .00 | -1.36 | .18 |
|  | Alpha0 | -.54 | .31 | -1.71 | .09 |
|  | Alpha1 | .05 | .04 | 1.33 | .18 |
| 2 | Intercept | .47 | .16 | 2.91 | <.01 |
|  | Linear | -.12 | .09 | -1.30 | .20 |
|  | Quadratic | .03 | .01 | 2.24 | .03 |
|  | Cubic | -.00 | .00 | -2.53 | .01 |
|  | Alpha0 | -.79 | .23 | -3.46 | <.001 |
|  | Alpha1 | -.07 | .03 | -2.41 | .02 |
| 3 | Intercept | 1.96 | .08 | 23.30 | <.0001 |
|  | Linear | -.54 | .05 | -11.02 | <.0001 |
|  | Quadratic | .09 | .01 | 11.89 | <.0001 |
|  | Cubic | -.00 | .00 | -11.79 | <.0001 |
|  | Alpha0 | -1.28 | .19 | -6.80 | <.0001 |
|  | Alpha1 | -.07 | .03 | -4.91 | <.0001 |
| 4 | Intercept | 1.40 | .14 | 9.79 | <.0001 |
|  | Linear | .29 | .07 | 3.96 | <.001 |
|  | Quadratic | -.01 | .01 | -.85 | .40 |
|  | Cubic | -.00 | .00 | -.71 | .48 |
|  | Alpha0 | -1.74 | .47 | -3.73 | <.001 |
|  | Alpha1 | -.13 | .08 | -1.51 | .13 |
| 5 | Intercept | 1.75 | .05 | 32.23 | <.0001 |
|  | Linear | .06 | .02 | 3.54 | <.001 |
|  | Quadratic | -.00 | .00 | -2.18 | .03 |
|  | Alpha0 | -1.49 | .23 | -6.55 | <.0001 |
|  | Alpha1 | -.14 | .04 | -3.65 | <.001 |
| Group Membership | | | | | |
| 1 | *Reference Group (Ref.)* | | | | |
| 2 | Constant | -.55 | .45 | -1.21 | .23 |
|  | White | *Ref.* | -- | -- | -- |
|  | Black | 1.87 | .62 | 3.03 | <.01 |
|  | Hispanic | 1.74 | .51 | 3.38 | <.001 |
|  | Other | 4.07 | 1.23 | 3.30 | <.001 |
| 3 | Constant | .95 | .27 | 3.55 | <.001 |
|  | White | *Ref.* | -- | -- | -- |
|  | Black | -.30 | .55 | -.55 | .59 |
|  | Hispanic | .31 | .39 | .80 | .43 |
|  | Other | 2.05 | 1.20 | 1.70 | .09 |
| 4 | Constant | -.75 | .37 | -2.03 | .04 |
|  | White | *Ref.* | -- | -- | -- |
|  | Black | -1.11 | 1.03 | -1.08 | .28 |
|  | Hispanic | -1.96 | 1.10 | -1.78 | .07 |
|  | Other | 2.78 | 1.25 | 2.23 | .03 |
| 5 | Constant | .37 | .29 | 1.28 | .20 |
|  | White | *Ref.* | -- | -- | -- |
|  | Black | -.78 | .64 | -1.21 | .23 |
|  | Hispanic | -.31 | .43 | -.71 | .48 |
|  | Other | 2.45 | 1.20 | 2.04 | .04 |

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| **Supplemental Table 7.** Trajectories of Marijuana Use, Adjusted Model: Censored Normal Model with Risk Factors (N=597) | | | | | |
| Group | Parameter | Estimate | Standard Error | T for H0: Parameter=0 | Prob > |T| |
| 1 | Intercept | -1.83 | .16 | -11.61 | <.0001 |
|  | Linear | .03 | .02 | 1.42 | .15 |
| 2 | Intercept | -2.42 | .48 | -5.06 | <.0001 |
|  | Linear | .61 | .13 | 4.75 | <.0001 |
|  | Quadratic | -.02 | .01 | -2.00 | .05 |
| 3 | Intercept | -.50 | .52 | -.97 | .33 |
|  | Linear | 1.44 | .26 | 5.57 | <.0001 |
|  | Quadratic | -.16 | .04 | -4.14 | <.0001 |
|  | Cubic | .01 | .00 | 3.15 | <.01 |
| 4 | Intercept | 2.23 | .25 | 8.80 | <.0001 |
|  | Linear | -.21 | .08 | -2.56 | .01 |
|  | Quadratic | .00 | .01 | .16 | .87 |
| 5 | Intercept | 3.28 | .19 | 16.95 | <.0001 |
|  | Linear | .32 | .06 | 5.13 | <.0001 |
|  | Quadratic | -.01 | .00 | -3.24 | <.01 |
| Sigma | | 1.66 | .03 | 62.99 | <.0001 |
| Group Membership | | | | | |
| 1 | *Reference Group (Ref.)* | | | | |
| 2 | Constant | -1.55 | .46 | -3.36 | <.001 |
|  | White | *Ref.* | -- | -- | -- |
|  | Black | .35 | .61 | .57 | .57 |
|  | Hispanic | .68 | .52 | 1.29 | .20 |
|  | Other | 1.00 | .56 | 1.80 | .07 |
| 3 | Constant | -1.43 | .39 | -3.62 | <.001 |
|  | White | *Ref.* | -- | -- | -- |
|  | Black | .85 | .50 | 1.70 | .09 |
|  | Hispanic | .46 | .48 | .97 | .33 |
|  | Other | .51 | .50 | 1.01 | .31 |
| 4 | Constant | -.41 | .23 | -1.80 | .07 |
|  | White | *Ref.* | -- | -- | -- |
|  | Black | -.96 | .54 | 01.78 | .07 |
|  | Hispanic | -.67 | .35 | -1.92 | .06 |
|  | Other | -1.29 | .53 | -2.42 | .02 |
| 5 | Constant | -.72 | .23 | -3.07 | <.01 |
|  | White | *Ref.* | -- | -- | -- |
|  | Black | .12 | .39 | .32 | .75 |
|  | Hispanic | .38 | .30 | 1.28 | .20 |
|  | Other | -.44 | .41 | -1.07 | .29 |