# Intoxicated Decision Strategies relate to Alcohol-Impaired Driving Attitudes and Intentions

SDM

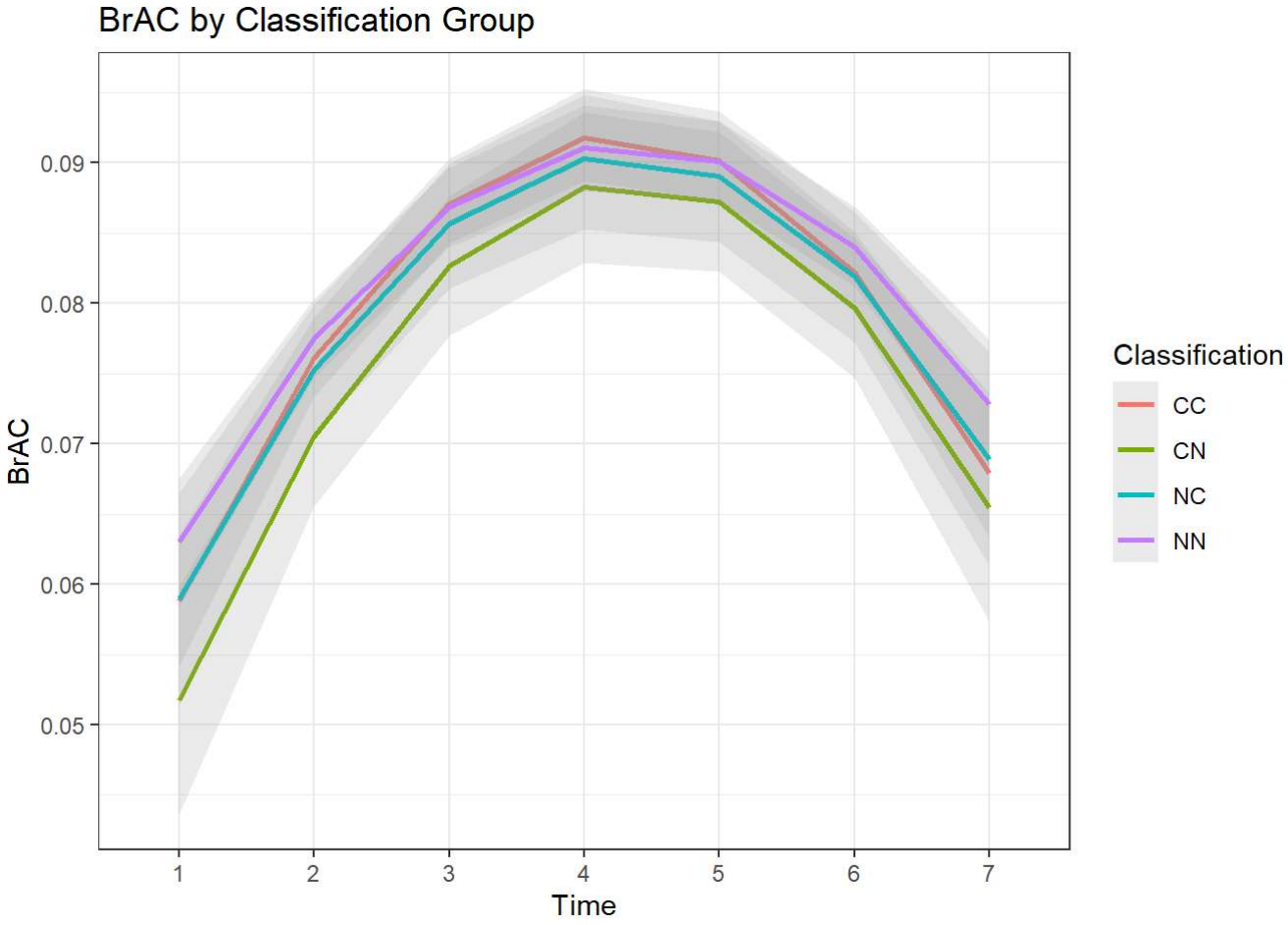
8.2021

Individual-level demographic information is not included to assist in preserving anonymity of participants.

## BrAC by Classification Group

| | Br AC 100 | | |
|---|---|---|---|
| *Predictors* | *Estimates* | *CI* | *p* |
| (Intercept) | 3.52 | 2.76 – 4.29 | **<0.001** |
| Time | 2.68 | 2.35 – 3.01 | **<0.001** |
| Ascending [non] | 0.15 | -1.24 – 1.55 | 0.828 |
| Descending [non] | -0.88 | -2.41 – 0.65 | 0.260 |
| Time^2 | -0.32 | -0.36 – -0.28 | **<0.001** |
| Time * Ascending [non] | -0.17 | -0.77 – 0.44 | 0.588 |
| Time * Descending [non] | 0.19 | -0.48 – 0.85 | 0.584 |
| Ascending [non] * Descending [non] | 1.54 | -0.53 – 3.61 | 0.146 |
| Descending [non] * Time^2 | -0.01 | -0.09 – 0.07 | 0.743 |
| Ascending [non] * Time^2 | 0.02 | -0.05 – 0.10 | 0.544 |
| (Time * Ascending [non]) * Descending [non] | -0.47 | -1.37 – 0.42 | 0.302 |
| (Ascending [non] *Descending [non])* Time^2 | 0.05 | -0.06 – 0.16 | 0.378 |
| **Random Effects** | | | |
| $\sigma^2$ | 0.75 | | |
| $\tau_{00\ subject}$ | 1.38 | | |

| | |
|---|---|
| $\tau_{11\ subject.Time}$ | 0.00 |
| $\rho_{01\ subject}$ | -1.00 |
| $N_{subject}$ | 58 |
| Observations | 406 |
| Marginal $R^2$ / Conditional $R^2$ | 0.613 / NA |



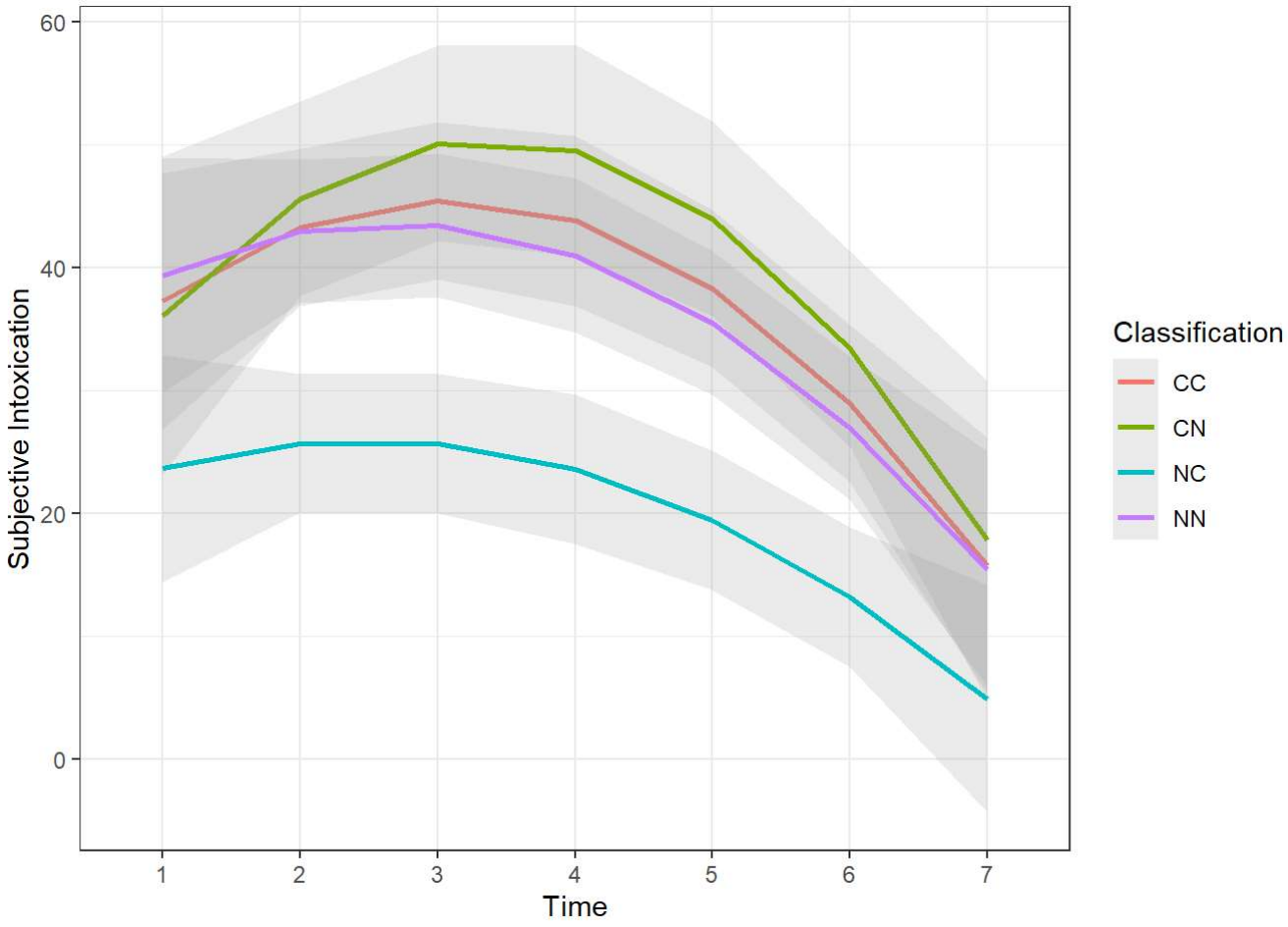

# Subjective Intoxication by Classification Group

| | intoxication | | |
|---|---|---|---|
| *Predictors* | *Estimates* | *CI* | *p* |
| (Intercept) | 27.39 | 13.12 – 41.66 | **<0.001** |
| Time | 11.80 | 7.40 – 16.20 | **<0.001** |
| Ascending [non] | -7.87 | -33.04 – 17.30 | 0.540 |
| Descending [non] | -5.82 | -33.32 – 21.68 | 0.678 |
| Time^2 | -1.92 | -2.42 – -1.42 | **<0.001** |
| Time * Ascending [non] | -6.63 | -14.40 – 1.14 | 0.094 |
| Time * Descending [non] | 5.25 | -3.24 – 13.74 | 0.225 |

| | | | |
|---|---|---|---|
| Ascending [non] * Descending [non] | 19.14 | -17.88 – 56.16 | 0.311 |
| Descending [non] * Time^2 | -0.59 | -1.56 – 0.38 | 0.233 |
| Ascending [non] * Time^2 | 0.89 | 0.00 – 1.77 | **0.050** |
| (Time * Ascending [non]) * Descending [non] | -2.35 | -13.77 – 9.07 | 0.687 |
| (Ascending [non] *Descending [non])* Time^2 | 0.12 | -1.18 – 1.42 | 0.858 |

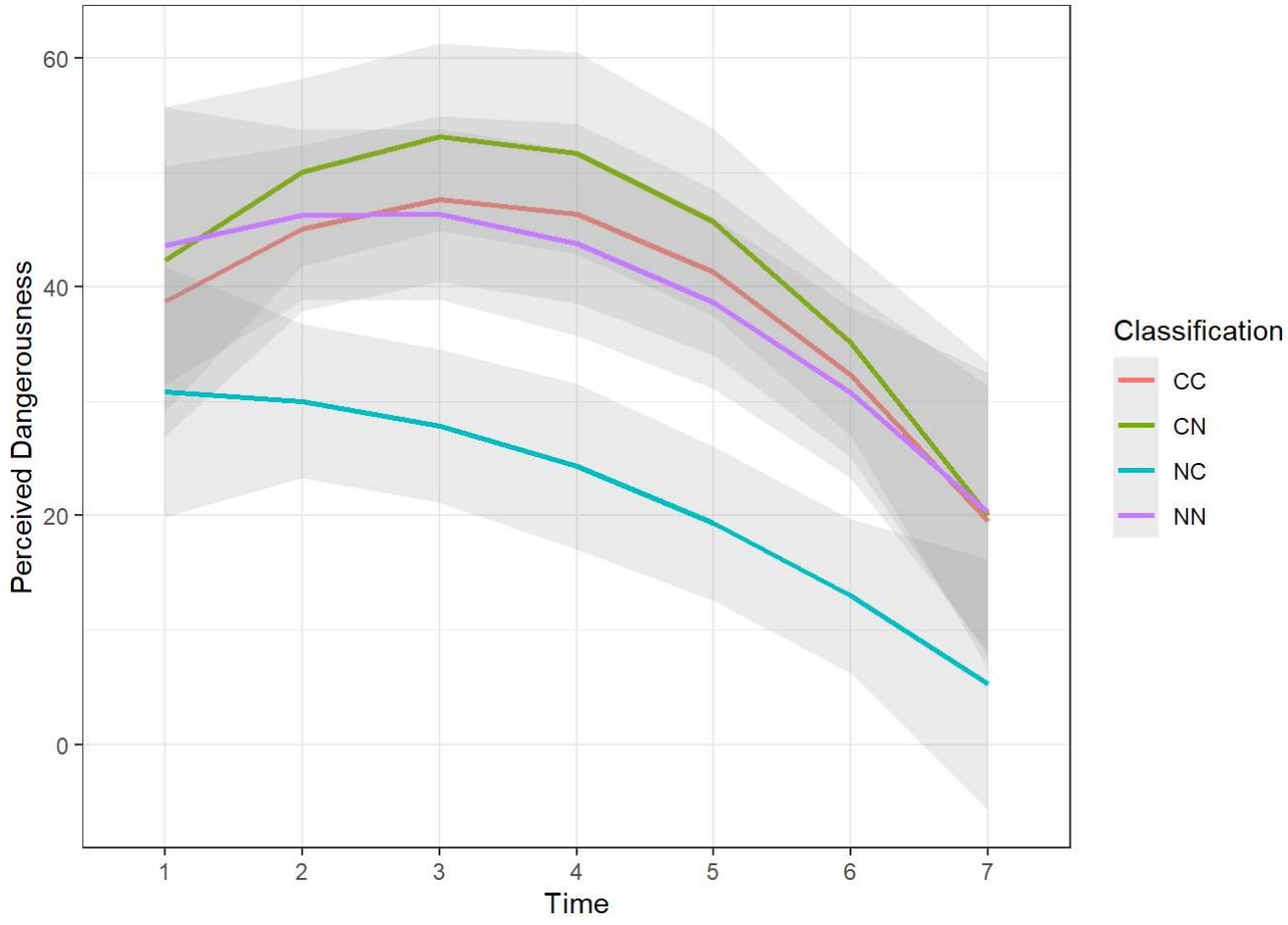
**Random Effects**

| | |
|---|---|
| $\sigma^2$ | 104.57 |
| $\tau_{00\ subject}$ | 753.34 |
| $\tau_{11\ subject.Time}$ | 12.48 |
| $\rho_{01\ subject}$ | -0.67 |
| ICC | 0.82 |
| $N_{\ subject}$ | 56 |
| Observations | 392 |
| Marginal $R^2$ / Conditional $R^2$ | 0.180 / 0.854 |



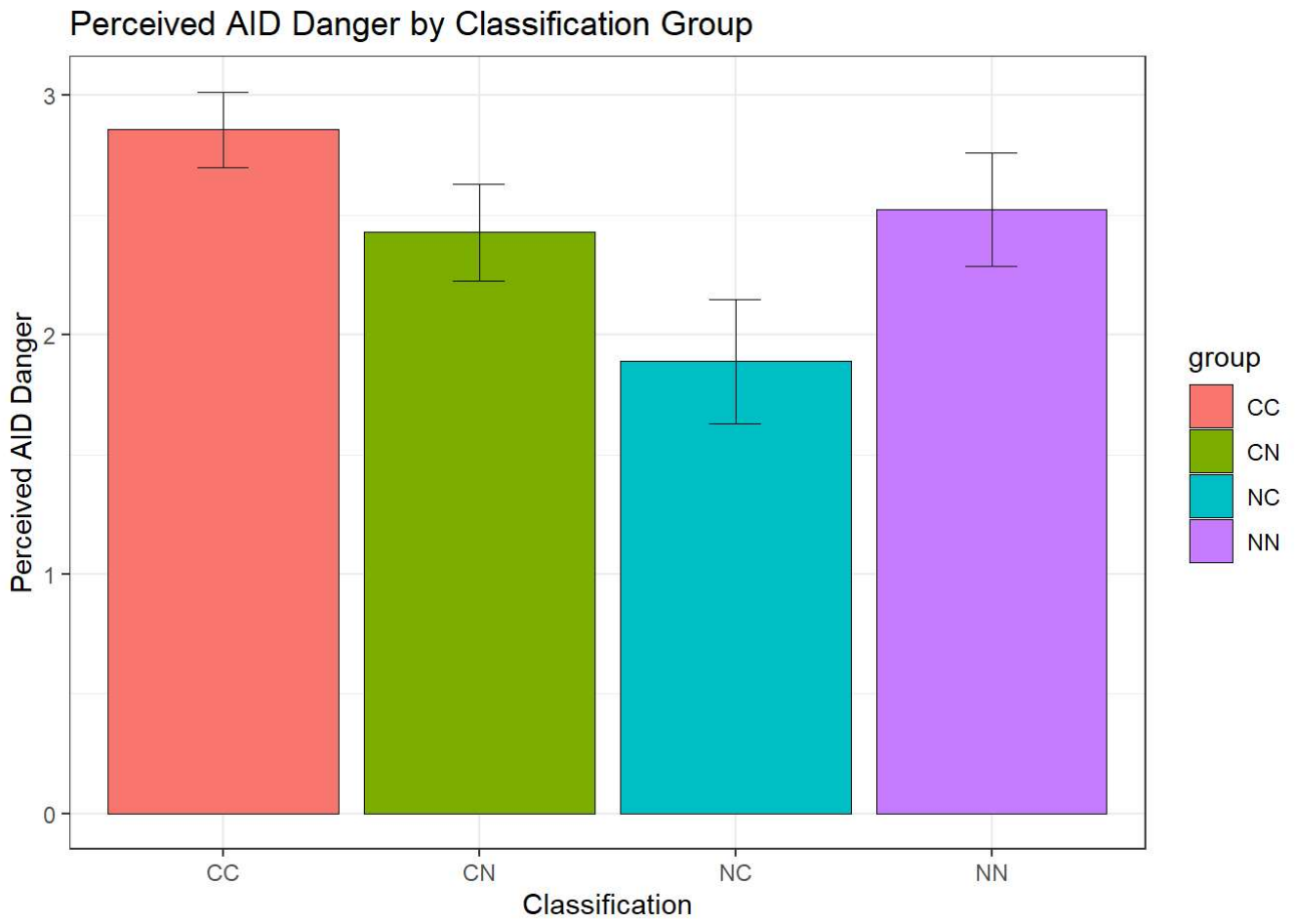
# Perceived AID Danger under Intoxication by Classification Group

| | danger | | |
|---|---|---|---|
| *Predictors* | *Estimates* | *CI* | *p* |
| (Intercept) | 28.45 | 11.46 – 45.44 | **0.001** |
| Time | 12.18 | 7.47 – 16.89 | **<0.001** |
| Ascending [non] | 1.76 | -28.21 – 31.72 | 0.909 |
| Descending [non] | 1.75 | -30.98 – 34.49 | 0.916 |
| Time^2 | -1.92 | -2.46 – -1.39 | **<0.001** |
| Time * Ascending [non] | -10.88 | -19.19 – -2.57 | **0.010** |
| Time * Descending [non] | 2.27 | -6.81 – 11.35 | 0.624 |
| Ascending [non] * Descending [non] | 6.27 | -37.80 – 50.34 | 0.780 |
| Descending [non] * Time^2 | -0.35 | -1.38 – 0.68 | 0.508 |
| Ascending [non] * Time^2 | 1.23 | 0.28 – 2.17 | **0.011** |
| (Time * Ascending [non]) * Descending [non] | 3.11 | -9.11 – 15.34 | 0.618 |
| (Ascending [non] *Descending [non])* Time^2 | -0.28 | -1.67 – 1.12 | 0.697 |
| **Random Effects** | | | |
| $\sigma^2$ | 119.56 | | |
| $\tau_{00\ subject}$ | 1136.74 | | |
| $\tau_{11\ subject.Time}$ | 14.42 | | |
| $\rho_{01\ subject}$ | -0.69 | | |
| ICC | 0.86 | | |
| $N_{\ subject}$ | 56 | | |
| Observations | 391 | | |
| Marginal $R^2$ / Conditional $R^2$ | 0.136 / 0.876 | | |



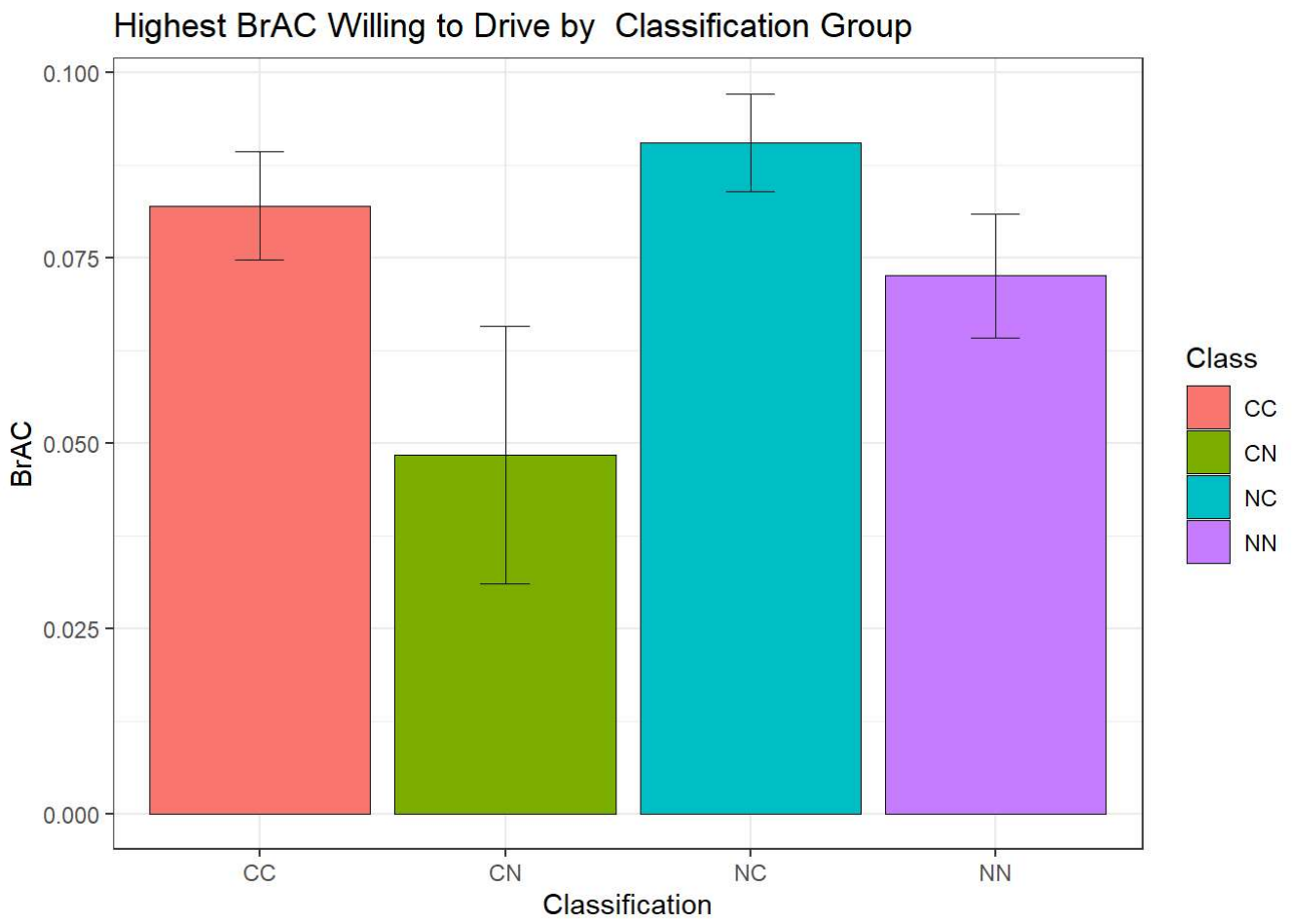

# AID Attitudes by Classification Group

| | baselinedanger | | |
|---|---|---|---|
| *Predictors* | *Estimates* | *CI* | *p* |
| (Intercept) | 2.86 | 2.48 – 3.24 | **<0.001** |
| AscendingClassification [Non-Compensatory] | -0.97 | -1.66 – -0.28 | **0.007** |
| DescendingClassification [Non-Compensatory] | -0.43 | -1.19 – 0.33 | 0.261 |
| AscendingClassification [Non-Compensatory] * DescendingClassification [Non-Compensatory] | 1.06 | 0.04 – 2.09 | **0.042** |
| Observations | 58 | | |
| $R^2$ / $R^2$ adjusted | 0.130 / 0.081 | | |




# Willingness to drive under intoxication

| | Drive BAC | | |
|---|---|---|---|
| *Predictors* | *Estimates* | *CI* | *p* |
| (Intercept) | 0.08 | 0.07 – 0.10 | **<0.001** |
| AscendingClassification [Non-Compensatory] | 0.01 | -0.02 – 0.04 | 0.5468 |
| DescendingClassification [Non-Compensatory] | -0.03 | -0.06 – -0.00 | **0.0339** |
| AscendingClassification [Non-Compensatory] * DescendingClassification [Non-Compensatory] | 0.02 | -0.03 – 0.06 | 0.4558 |
| Observations | 56 | | |
| $R^2$ / $R^2$ adjusted | 0.114 / 0.063 | | |


Highest BrAC Willing to Drive by Classification Group
0.100
0.075
0.050
0.025
0.000
BrAC
CC
CN
NC
NN
Classification
Class
CC
CN
NC
NN