# SUPPLEMENTARY MATERIAL

# Appendix A – Descriptive statistics

**Supplementary Table A1.** *Frequency table of medication use in both groups*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Total** |  |  | **Non-violent** | |  | | **Violent** | | | |
|  | Freq. | Rel. % |  | Freq. | Rel. % | |  | | Freq. | Rel. % |
| *Sedatives* | 20 | 15.4% |  | 6 | 14% | |  | | 14 | 16.5% |
| Antipsychotics | 3 | 2.3% |  | 0 | 0% | |  | | 3 | 3.5% |
| Benzodiazepines | 13 | 10.0% |  | 5 | 11.6% | |  | | 8 | 9.4% |
| Methadone | 8 | 6.2% |  | 2 | 4.7% | |  | | 6 | 7.1% |
| Opioid analgesics | 1 | 0.8% |  | 0 | 0% | |  | | 1 | 1.2% |
| *Other categories* |  |  |  |  |  | |  | |  |  |
| Antidepressants | 4 | 3.1% |  | 1 | 2.3% | |  | | 3 | 3.5% |
| Non-opioid analgesics | 3 | 2.3% |  | 0 | 0% | |  | | 3 | 3.5% |
| *Miscellaneous drugs* |  |  |  |  |  | |  | |  |  |
| Albuterol | 2 | 1.5% |  | 1 | 2.3% | |  | | 1 | 1.2% |
| Insulin | 2 | 1.5% |  | 1 | 2.3% | |  | | 1 | 1.2% |
| Metformin | 1 | 0.8% |  | 0 | 0% | |  | | 1 | 1.2% |
| Methimazole | 1 | 0.8% |  | 0 | 0% | |  | | 1 | 1.2% |
| Methylphenidate | 4 | 3.1% |  | 0 | 0% | |  | | 4 | 4.7% |
| Thiamine | 1 | 0.8% |  | 0 | 0% | |  | | 1 | 1.2% |

**Supplementary Table A2.** *Frequency table of addiction (present and past addictions)*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Total** |  |  | **Non-violent** | |  | | **Violent** | | | |
|  | Freq. | Rel. % |  | Freq. | Rel. % | |  | | Freq. | Rel. % |
| Alcohol | 32 | 25% |  | 9 | 20.9% | |  | | 23 | 27.1% |
| Marihuana | 54 | 42.2% |  | 18 | 41.9% | |  | | 36 | 42.4% |
| Cocaine | 22 | 17.2% |  | 6 | 14.0% | |  | | 16 | 18.8% |
| Crack | 3 | 2.3% |  | 1 | 2.3% | |  | | 2 | 2.4% |
| Heroin | 10 | 7.8% |  | 2 | 4.7% | |  | | 8 | 9.4% |
| XTC | *6* | *4.7%* |  | *3* | *7.0%* | |  | | *3* | *3.5%* |
| Speed | 4 | 3.1% |  | 2 | 4.7% | |  | | 2 | 2.4% |
| Gambling | 13 | 10.2% |  | 6 | 14.0% | |  | | 7 | 8.2% |

**Supplementary Table A3.** *Group means, total means and standard deviations on the outcome measures of the CANTAB (non-imputed data)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test | Outcome measures | Non-violent offenders | | |  | Violent offenders | | |  | Total sample | | |
|  |  | Mean | sd | N |  | Mean | sd | N |  | Mean | sd | N |
| SOC | Problems solved in minimum moves | 7.37 | 2.02 | 43 |  | 7.82 | 1.80 | 84 |  | 7.67 | 1.88 | 127 |
| SWM | Total errors | 15.07 | 9.90 | 43 |  | 14.79 | 9.76 | 84 |  | 14.88 | 9.77 | 127 |
| IED | Total errors (adjusted) | 42.30 | 43.360 | 43 |  | 43.53 | 45.04 | 80 |  | 43.10 | 44.29 | 123 |
| SST | SSRT (last half) | 176.08 | 36.55 | 41 |  | 190.68 | 54.00 | 80 |  | 185.73 | 49.12 | 121 |
|  | Proportion successful stops | 0.502 | 0.075 | 41 |  | 0.495 | 0.076 | 80 |  | 0.498 | 0.075 | 121 |
| CRT | Mu | 242.77 | 33.89 | 41 |  | 235.06 | 28.68 | 79 |  | 237.69 | 30.64 | 120 |
|  | Sigma | 24.21 | 11.01 | 41 |  | 23.4 | 9.18 | 79 |  | 23.72 | 9.80 | 120 |
|  | Tau | 66.64 | 29.99 | 41 |  | 71.41 | 31.79 | 79 |  | 69.78 | 31.14 | 120 |
| CGT | Delay aversion | .262 | .203 | 39 |  | .239 | .181 | 67 |  | .248 | .189 | 106 |
|  | Risk taking | .597 | .137 | 39 |  | .592 | .172 | 67 |  | .594 | .159 | 106 |

# Appendix B – Missing data statistics

**Supplementary Table B1.** *Rates of missing data for each variable imputed*

|  |  |  |
| --- | --- | --- |
|  | Missing |  |
| Imputed variable | Count | Percent |
| IQ | 49 | 37.7% |
| CGT Delay aversion | 22 | 16.9% |
| CGT Risk taking | 22 | 16.9% |
| CRT mu | 8 | 6.2% |
| CRT sigma | 8 | 6.2% |
| CRT tau | 8 | 6.2% |
| SST SSRT | 8 | 6.2% |
| IED Total errors adjusted | 5 | 3.8% |
| Non-violent vs. Violent | 2 | 1.5% |
| No. previous detentions | 1 | 0.8% |
| SOC Problems solved in minimum moves | 1 | 0.8% |
| SWM Total errors | 1 | 0.8% |

**Supplementary Table B2.** *Patterns of missingness*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Variables |  |  |  |  |  |  |  |
| Number of Cases | IED Total errors adj. | CRT mu | CRT sigma | CRT tau | SST SSRT | CGT Risk taking | CGT Delay aversion | IQ |
| 69 |  |  |  |  |  |  |  |  |
| 32 |  |  |  |  |  |  |  | X |
| 3 |  |  |  |  | X |  |  |  |
| 9 |  |  |  |  |  | X | X | X |
| 6 |  |  |  |  |  | X | X |  |
| 2 | X | X | X | X |  | X | X |  |
| Total missing | 5 | 8 | 8 | 8 | 8 | 22 | 22 | 49 |