

Table 1Sample description ($n = 886$).

| Variables | n (%) |
|---|-------------|
| Sex | |
| Male | 740 (83.5%) |
| Age | |
| > 24 years old | 705 (79.6%) |
| ≤ 24 years old | 181 (20.4%) |
| Ethnic background ^a | 133 (15.1%) |
| (At least one parent born outside Canada) | |
| Homelessness | 358 (40.4%) |
| Risky sexual practices ^b | 245 (27.7%) |
| Duration of cocaine consumption (average) | 18.17 years |
| Drug most often used ^b | |
| Amphetamines | 21 (2.4%) |
| Cannabis | 231 (26.1%) |
| Cocaine | 460 (52%) |
| Heroin | 63 (7.1%) |
| PO | 105 (11.9%) |
| Any opioid (heroin or PO) | 168 (19.0%) |
| Others | 5 (0.6%) |
| Polydrug use (excluding heroin and PO) (≥ 3) | 368 (41.5%) |
| Routes of cocaine intake | |
| Smoked | 766 (86.5%) |
| Injected | 542 (61.2%) |
| Snorted | 328 (37%) |

| | |
|--------------------------|-------------|
| Opioid used (last month) | 464 (52.4%) |
| PO | 357 (40.3%) |
| Injected | 305 (34.4%) |
| Not injected | 87 (9.8%) |
| Heroin | 322 (36.3%) |
| Injected | 290 (32.7%) |
| Not injected | 63 (7.1%) |
| Speedball | 102 (11.5%) |

^a 5 missing values.

^b 1 missing value.

Table 2

Probabilities of substance use and routes of administration by class membership.

| Substance used in the past month | Classes | | | | | Overall |
|-------------------------------------|---|---|---|---|---|---------|
| | Class 1 Cocaine Smokers (CS) (<i>n</i> = 161) | Class 2 Cocaine Sniffers/ Smokers (CSS) (<i>n</i> = 201) | Class 3 Cocaine Injectors (CI) (<i>n</i> = 207) | Class 4 Cocaine-Opioid Injectors (COI) (<i>n</i> = 277) | Class 5 Cocaine-Opioid Poly-routes (COP) (<i>n</i> =40) | |
| Membership probabilities | 0.183 | 0.218 | 0.231 | 0.291 | 0.077 | 1 |
| Conditional probabilities | | | | | | |
| Injected cocaine | <i>0.000</i> | <i>0.268</i> | 1.000 | 0.906 | 0.761 | 0.612 |
| Smoked cocaine | 1.000 | 0.872 | 0.675 | 0.893 | 0.983 | 0.865 |
| Snorted cocaine | <i>0.000</i> | 1.000 | <i>0.119</i> | 0.272 | 0.596 | 0.370 |
| Injected heroin | <i>0.032</i> | <i>0.036</i> | 0.291 | 0.672 | 0.818 | 0.340 |
| (including speedball) | | | | | | |
| Non-injected heroin ^a | 0.073 | 0.058 | <i>0.011</i> | <i>0.000</i> | 0.553 | 0.071 |
| Injected Pos | <i>0.016</i> | <i>0.024</i> | <i>0.000</i> | 1.000 | 0.589 | 0.344 |
| Non-injected POs ^b | 0.081 | 0.121 | <i>0.039</i> | 0.092 | 0.274 | 0.098 |

^a Refers to either sniffed or smoked heroin.^b Refers to either snorted, eaten, drank, or smoked PO.Class conditional probabilities in **bold** refer to one third larger than overall and *italic* one third smaller than overall.

Table 3

Descriptive statistics for sociodemographic and behavioural characteristics for each cocaine users subgroups.

| | | Class 1 | | Class 2 | | Class 3 | | Class 4 | | Class 5 | | Comparisons across subgroups |
|---|----------------|------------------------------------|-------|--|-------|--------------------------------------|-------|--|-------|---|-------|------------------------------------|
| | | Cocaine Smokers (CS) (n=161) | | Cocaine Sniffers/Smokers (CSS) (n=201) | | Cocaine Injectors (CI) (n=207) | | Cocaine-Opioid Injectors (COI) (n=277) | | Cocaine-Opioid Poly-routes (COP) (n=40) | | |
| | | n | % | % | n | % | n | % | n | % | | |
| Sex | Male | 137 | 85.1% | 172 | 85.6% | 172 | 83.3% | 226 | 81.6% | 33 | 82.5% | 0.788 |
| Age | > 24 years old | 121 | 75.2% | 123 | 61.2% | 191 | 92.3% | 237 | 85.6% | 33 | 82.5% | <0.001 |
| | ≤ 24 years old | 40 | 24.8% | 78 | 38.8% | 16 | 7.7% | 40 | 14.4% | 7 | 17.5% | |
| Ethnic background ^a | Outside | 29 | 18.2% | 44 | 21.9% | 21 | 10.2% | 30 | 10.9% | 9 | 22.5% | 0.001 |
| | Canada | | | | | | | | | | | |
| Homelessness | Yes | 66 | 41.0% | 80 | 39.8% | 62 | 30.0% | 131 | 47.3% | 19 | 47.5% | 0.003 |
| Duration of cocaine consumption (continuous) | | 17.17 years | | 14.99 years | | 21.83 years | | 18.22 years | | 18.80 years | | <0.001 |
| Polydrug use (≥ 3) | Yes | 55 | 34.2% | 109 | 54.2% | 37 | 17.9% | 139 | 50.2% | 28 | 70.0% | <0.001 |
| Risky sexual | Yes | 53 | 33.1% | 72 | 35.8% | 48 | 23.2% | 62 | 22.4% | 10 | 25.0% | 0.004 |

| practices ^b | | | | | | | | | | | | |
|------------------------|--------------|-----|--------|-----|-------|-----|-------|-----|-------|----|-------|--------|
| Principal | Injecting | 0 | 0% | 28 | 13.9% | 143 | 69.1% | 156 | 56.3% | 13 | 32.5% | <0.001 |
| route of | Smoking | 161 | 100.0% | 126 | 62.7% | 61 | 29.5% | 115 | 41.5% | 22 | 55.0% | |
| cocaine intake | Snorting | 0 | 0% | 47 | 23.4% | 3 | 1.4% | 6 | 2.2% | 5 | 12.5% | |
| Drug used | Heroin | 18 | 11.2% | 16 | 8.0% | 63 | 30.4% | 185 | 66.8% | 40 | 100% | <0.001 |
| (last month) | PO | 13 | 8.1% | 29 | 14.4% | 9 | 4.3% | 277 | 100% | 29 | 72.5% | <0.001 |
| | Speedball | 0 | 0% | 0 | 0% | 19 | 9.2% | 68 | 24.5% | 15 | 37.5% | <0.001 |
| | Any opioid | 29 | 18.0% | 43 | 21.4% | 75 | 36.2% | 277 | 100% | 40 | 100% | <0.001 |
| Drug most | Amphetamines | 4 | 2.5% | 13 | 6.5% | 1 | 0.5% | 2 | 0.7% | 1 | 2.5% | NA |
| frequently | Cannabis | 58 | 36.0% | 83 | 41.3% | 36 | 17.4% | 42 | 15.2% | 12 | 30.0% | |
| used ^c | Cocaine | 96 | 59.6% | 101 | 50.2% | 145 | 70.0% | 102 | 37.0% | 16 | 40.0% | |
| | Heroin | 3 | 1.9% | 2 | 1.0% | 21 | 10.1% | 33 | 12.0% | 4 | 10.0% | |
| | PO | 0 | 0% | 2 | 1.0% | 2 | 1.0% | 95 | 34.4% | 6 | 15.0% | |
| | Any opioid | 3 | 1.9% | 4 | 2.0% | 23 | 11.1% | 128 | 46.4% | 10 | 25.0% | |
| | Others | 0 | 0% | 0 | 0% | 2 | 1.0% | 2 | 0.7% | 1 | 2.5% | |
| | Total | 161 | 100% | 201 | 100% | 207 | 100% | 276 | 100% | 40 | 100% | |

^a = 5 missing values.

^b = 1 missing value.

^c = 1 missing value.

* Comparisons using Chi-square tests for categorical variables.

NA (not applicable): Cell counts affected by lack of cases.

Table 4Adjusted odds ratio (AOR) and 95% confidence intervals (CI) of LCA cocaine users subgroups ($n = 886$).

| Multinomial logistic regression | CS vs. COI | CSS vs. COI | CI vs. COI | COP vs. COI |
|---|---------------------|---------------------|---------------------|-------------------|
| AOR (95% CI) | | | | |
| Age (>24 year) | 0.35 (0.18-0.67)** | 0.20 (0.11-0.36)*** | 0.69 (0.33-1.44) | 0.64 (0.21-1.96) |
| Homeless | 0.74 (0.49-1.12) | 0.62 (0.42-0.91)* | 0.54 (0.36-0.80)** | 0.98 (0.50-1.94) |
| Ethnic background (not Canada) | 1.79 (1.02-3.16)* | 2.06 (1.22-3.50)** | 1.026 (0.55-1.90) | 2.52 (1.07-5.92)* |
| Polydrug use (without PO and heroin) ≥ 3 | 0.41 (0.27-0.64)*** | 0.89 (0.60-1.32) | 0.23 (0.15-0.36)*** | 2.41 (1.15-5.02)* |
| Risky sexual practices | 1.89 (1.20-2.97)** | 1.81 (1.19-2.78)** | 1.34 (0.85-2.11) | 0.99 (0.45-2.18) |
| Duration of cocaine consumption | 1.01 (0.98-1.04) | 1.01 (0.99-1.04) | 1.04 (1.02-1.07)** | 1.03 (0.99-1.08) |

* $p \leq 0.05$.** $p \leq 0.01$.*** $p \leq 0.001$.

Note: The reference category is class 4 (COI).