

# IMPRISONMENT AMONG PEOPLE WHO USE METHAMPHETAMINE



## PRELIMINARY RESULTS FROM A PROSPECTIVE COHORT STUDY

### Authors

Curtis M<sup>a,b</sup>, Quinn B<sup>b</sup>, Stone J<sup>c</sup>, Maher L<sup>b,d</sup>, Agius PA<sup>b,e,f</sup>, Stoové M<sup>b,f,g</sup>, Ward B<sup>h</sup>, Jenkinson R<sup>b,f,i</sup>, Hickman M<sup>c</sup>, Higgs P<sup>b</sup>, and Dietze P<sup>a,b,f</sup>.

E: michael.curtis@curtin.edu.au

## BACKGROUND

Imprisonment is associated with numerous and often enduring adverse outcomes [1-3]. Methamphetamine is the most commonly used illicit drug among people entering Australian prisons [2]. However, the incidence of, and factors contributing to, imprisonment among Australians who use methamphetamine are poorly understood.

## RESULTS

Among 541 people (who were observed for a combined 1761 person years [PY]), we found:

- 108 people contributed 151 imprisonments (range = 0 - 4)
- a crude imprisonment rate of 85 per 1000 PY (95% confidence interval: 72-99)

Factors associated with imprisonment are shown in Table 1.

## CONCLUSION

We observed an imprisonment rate more than 40-fold greater than the general Australian population [5].

Imprisonment rates among people who use methamphetamine could be reduced by the use of

- non-custodial responses to drug-related offences
- initiatives which improve employment outcomes
- expanded access to interventions which reduce the frequency of methamphetamine use

## AIMS

Among people who use methamphetamine:

1. Determine incidence of imprisonment
2. Determine factors associated with imprisonment

## METHODS

Data (2017–2022) were from VMAX, an ongoing cohort study of people who smoked methamphetamine at least monthly at study enrollment in Victoria, Australia.

Imprisonment was determined by self-report - at each interview participants were asked “Have you been imprisoned since we last saw you?”

Crude imprisonment rates were calculated; associations between time invariant and time varying characteristics were estimated using multiple-event discrete-time survival analysis. Time varying characteristics were lagged one interview.

## TABLE 1

Associations with imprisonment in VMAX: discrete-time survival model showing unadjusted (HR) and adjusted hazard ratios (AHR) with 95% confidence interval (95%CI)

Associations with imprisonment in VMAX (N=541): discrete-time survival model showing unadjusted (HR) and adjusted hazard ratios (AHR) with 95 % confidence interval (95 %CI)

Covariate	HR (95%CI)	p-value	AHR (95%CI) <sup>a,b</sup>	p-value
<i>Time invariant</i>				
Age at baseline	0.98 (0.96-0.99)	0.01	0.94 (0.92-0.97)	<0.001
Gender: Female & Other	0.44 (0.30-0.64)	<0.001	0.58 (0.37-0.91)	0.017
Aboriginal and/or Torres Strait Islander	2.00 (1.35-2.98)	0.001	1.60 (0.99-2.60)	0.056
Completed Year 10 or higher	0.61 (0.44-0.85)	0.003	0.89 (0.60-1.33)	0.571
Imprisoned as a juvenile	2.48 (1.66-3.71)	<0.001	1.07 (0.64-1.78)	0.799
<i>Time varying</i>				
Homeless	2.03 (1.45-2.82)	<0.001	1.42 (0.98-2.05)	0.063
Frequency of methamphetamine use: Weekly or more <sup>c</sup>	1.87 (1.28-2.72)	0.001	1.68 (1.16-2.44)	0.006
Employed	0.46 (0.29-0.72)	0.001	0.61 (0.38-0.98)	0.043
Any IDU	1.70 (1.23-2.35)	0.001	1.26 (0.83-1.90)	0.276
History of adult imprisonment	4.72 (3.36-6.64)	<0.001	4.21 (2.85-6.23)	<0.001
Sought professional methamphetamine support	1.57 (1.12-2.20)	0.009	1.31 (0.91-1.88)	0.144

<sup>a</sup> Adjusted for observation period and all listed covariates; <sup>b</sup> includes offset for log of duration of observation period; <sup>c</sup> versus none or less than weekly

### References

[1] Fazel & Baillargeon, The health of prisoners. *Lancet*, 2011. 377(9769): p. 956-65. [2] Australian Institute of Health and Welfare, The health of Australia's prisoners 2018. 2019. AIHW: Canberra. [3] Borschmann et al., Increased risk of death following release from incarceration: an individual participant data meta-analysis of 1,314,568 adults in eight countries. *International Journal of Population Data Science*, 2022. 7(3). [4] Quinn et al., A prospective cohort of people who use methamphetamine in Melbourne and non-metropolitan Victoria, Australia: Baseline characteristics and correlates of methamphetamine dependence. *Drug and Alcohol Review*, 2021. 40(7): p. 1239-1248. [5] Australian Bureau of Statistics. Prisoners in Australia. 2023. Updated 24/02/2023; Available from: <https://www.abs.gov.au/statistics/people/crime-and-justice/prisoners-australia/2022>.

### Affiliations

<sup>a</sup> National Drug Research Institute, Curtin University, Melbourne, Australia; <sup>b</sup> Disease Elimination, Burnet Institute, Melbourne, Australia; <sup>c</sup> Bristol Medical School, University of Bristol, Bristol, UK; <sup>d</sup> Kirby Institute, UNSW Sydney, Sydney, Australia; <sup>e</sup> Faculty of Health, Deakin University, Burwood, Australia; <sup>f</sup> School of Public Health and Preventive Medicine, Monash University, Melbourne, Australia; <sup>g</sup> School of Psychology and Public Health, La Trobe University, Melbourne, Victoria, Australia; <sup>h</sup> School of Rural Health, Monash University, Bendigo, Australia; <sup>i</sup> Australian Institute of Family Studies, Melbourne, Australia

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