

Protecting and improving the nation's health

Recent increases in crack injection and associated risk factors among people who inject psychoactive drugs in England and Wales.

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Background and Objectives

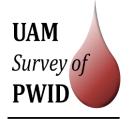
- National data indicate a recent increase in the prevalence of crack injection in some parts of the UK [1].
- Frequency of injection is often higher among those using stimulants, like crack cocaine, than that seen in those injecting opiates alone.
- Increased injecting frequency increases potential exposure to blood-borne viruses (BBVs) or injection site infections.
- Furthermore, availability of high purity cocaine increases the risk of fatal and non fatal overdose.

Aim:

- Analyse recent trends in crack injection among PWID (2010 2019)
- Investigate factors associated with crack injection (2019)

^{1.} Public Health England. Opiate and crack cocaine use: prevalence estimates by local area 2017 [Available from: https://www.gov.uk/government/publications/opiate-and-crack-cocaine-use-prevalenceestimates-for-local-populations]

Methods



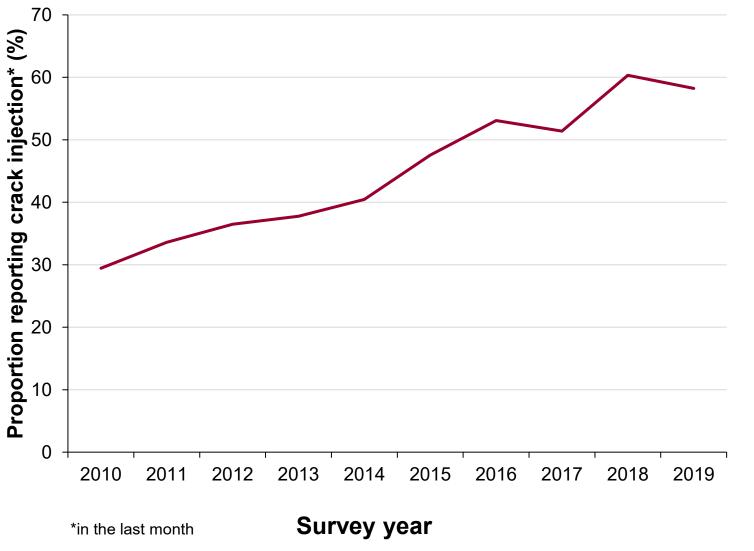
- Data analysed from the Unlinked Anonymous Monitoring Survey of People Who Inject Drugs (UAM Survey) – annual cross-sectional bio-behavioural survey.
- Participants are recruited through drug and alcohol services and are eligible to participate if they have ever injected a psychoactive drug.
- Sample limited to current injectors (injected in last month) recruited in England and Wales.

<u>Trend over time:</u> Assessed if the proportion reporting crack injection in the past month increased significantly in 2019 compared with 2010, adjusting for age, gender and geographical region.

Factors associated with crack injection in 2019:

- Univariable analyses x²
- All covariates significant in univariable analyses were added to a logistic regression model and removed if found non significant through a likelihood ratio test (p>0.05).
- All analyses were conducted using Stata 15.

Trend in crack injection 2010 - 2019



- Among the UAM Survey participants, crack injection in the last month has increased significantly over the last decade.
- Participants in 2019
 were 3.5 times more likely to report injecting crack in the last month than those participating in 2010.

Factors associated with current crack injection in 2019

Female

Among those reporting crack injection*

N = 1,417

Gender

HCV)

Of which
58%
reported
crack
injection in
the past
month

1.05 - 1.68 1.20 - 2.18 1.33 1.61 Male Geographical region North of England 1.79 - 4.70London 2.32 1.54 - 3.482.90 2.43 1.82 - 3.242.76 1.93 - 3.95Midlands 3.47 2.77 - 6.01South of England 2.54 - 4.734.08 1.17 0.79 - 1.720.99 Wales 0.61 - 1.59Homeless in the last year No 1.50 - 2.301.24 - 2.13Yes 1.63 1.86 **Ever imprisoned** No 1.77 1.40 - 2.241.10 - 2.01Yes 1.49 Injected heroin* No 3.97 - 11.06 3.49 - 12.26Yes 6.63 6.54 Sharing needles, syringes, spoons, No filters or mixing containers* 1.81 1.44 - 2.281.77 1.32 - 2.36Yes Injecting frequency on last day injected Once a day 1.46 - 2.401.33 - 2.38Two times or more 1.87 1.78 Groin injection* No 1.79 - 3.20Yes 2.12 1.69 - 2.672.39 Overdose in last year No Yes 2.05 1.55 - 2.712.06 1.45 - 2.94Ever having a HCV infection (anti-Negative

Univariate

OR

1.82

95% CI

1.46 - 2.26

Multivariate

95% CI

1.27 - 2.21

AOR^

1.68

^ bold when significant at p<0.05

Positive

^{*} those reporting injecting in the last month

Conclusions

- The prevalence of crack injection among PWID in England and Wales has doubled over the past decade.
- PWID reporting crack injection are more likely to engage in risk behaviours such as injecting equipment sharing, groin injection, injecting more frequently and use of heroin and crack in combination.
- This is concerning as these behaviours could increase risk of BBV and skin and soft tissue infection acquisition.
- Also concerning is the increased risk of overdose among this group.
- Harm reduction and drug treatment services should adapt to support the needs of this growing population of stimulant injectors.

Acknowledgements

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