

Background

Fentanyl is a synthetically produced opioid approximately 100 times stronger than morphine $^{1} \ensuremath{\mathsf{n}}$

Originally listed on the Pharmaceutical Benefits Scheme in 1996 for the treatment of severe pain related to cancer treatment²

However, indications of treatment were expanded in 2006 for the treatment of non-cancer chronic pain

Several formulations are available in Australia (intravenous, intranasal, sublingual etc)

 99% of fentanyl prescribed in 2013 was in the form of transdermal patches.

Source: ¹ Domino et. al. (1965) Clinical Pharmacology & Therapeutics ² National Prescribing service (2006)







Methods: ANSPS

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Australian Needle Syringe Program Survey

- Bio-behavioural sentinel surveillance system conducted annually since 1995
- Self-administered questionnaire: including demographic characteristics, drug use, HCV testing and treatment behaviours
- Provision of dried blood spot
- Conducted at ~50 NSPs nationally
- Representative of NSP attendees at sentinel sites¹
- Supplementary questions on injection of pharmaceutical opioids (POs) in 2014
- Logistic regression models calculated crude and adjusted odds ratios
- Variables included in model: age, gender, location, injection risk behaviours

6 Source: 1. Topp et al, (2011) JAIDS





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Results: Sample characteristics									
		Total (N=193, %)							
	Gender Male Female	144 (75) 45 (23)							
	Sexual identity Heterosexual Bisexual Homosexual	161 (83) 17 (9) 4 (2)							
	Age Median (range)	39 years (18-61)							
	Location Metropolitan Rural	151 (78) 42 (22)							
	Currently on OST No Yes	114 (59) 71 (37)							
	Years since first injection Median (range)	20 years (0-43)							
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Results: Recent fentany	/l in	iection

Factors associated with recent (past 6 months) fentanyl injection

	Total (N=848)	No recent fentanyl injection (N=655)	Recent fentanyl injection (N=193	Unadjusted OR#	Adjusted OR
Indigenous Australian descent No (ref) Yes	700 (83) 131 (15)	551 (84) 93 (14)	149 (77) 38 (20)	 1.51 (0.99-2.29)	 1.61 (1.04-2.51)
Frequency of injection* Less than daily (ref) Daily or more	272 (32) 544 (64)	230 (35) 398 (61)	42 (22) 146 (78)	 2.01 (1.37-2.94)	 1.92 (1.30-2.83)
Public injection* No (ref) Yes	465 (56) 354 (43)	375 (59) 254 (40)	90 (47) 100 (53)	 1.64 (1.18-2.27)	 1.43 (1.01-2.02)
Overdose in the last 12 months No (ref) Yes	627 (74) 211 (25)	509 (78) 140 (21)	118 (61) 71 (37)	 2.19 (1.54-3.10)	 2.16 (1.48-3.13)
Receptively shared syringes* Yes (ref) No	634 (77) 180 (22)	480 (75) 147 (23)	154 (82) 33 (18)	 0.70 (0.46-1.06)	 0.56 (0.36-0.87)
* Last month					

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Strengths and limitations

Strengths

 Well established surveillance mechanism provides a national sample of PWID attending NSPs

Limitations

- Self-reported demographic and drug use data may be subject to recall and social desirability bias.
- Although ANSPS samples are representative of NSP attendees, generalisability of results is uncertain
- Timeframes for some variables were misaligned i.e. fentanyl injection was captured in the previous six months and overdose was captured in the previous 12 months
- Our study instrument didn't distinguish between fentanyl which may have been prescribed to the individual and fentanyl that was obtained illegally

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 Consideration should also be given to ensuring adequate OST coverage and expanding access to supervised injection facilities for this population

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