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The role of health practitioners in the diversion of pharmaceutical drugs for non-medical use in Australia



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APSAD Scientific Alcohol and Drug Conference, 12 – 15 November 2017

The problem

- 1 in 20 Australians reported misusing a pharmaceutical drug in 2016 (AIHW, 2017).
- When used non-medically, pharmaceutical opioids are the second most commonly used drug, after cannabis (AIHW, 2017).
- Pharmaceutical drugs are present in the majority of druginduced deaths in Australia (ABS, 2017).







Source of pharmaceutical drugs that are used non-medically



How might health practitioners contribute to non-medical use?

DELIBERATE PRACTICES

- Theft of drug supplies
- Prescription forgery
- Oversupplying
- Supplying to friends or family
- Self-prescribing
- On-supplying for profit \$

INADVERTENT PRACTICES

- Inadequately consulting patients •
- Not identifying patients at-risk of diversion
- Providing lacking information about drug use, disposal and storage
- Not managing drug-seeking patients appropriately

(Cummings et al. 2011; DCPC, 2007; Inciardi et al. 2006; Merlo et al. 2014; Pilgrim et al. 2016; Rigg et al. 2010; Sheridan et al. 2011)







Research questions

Where health practitioners are involved in inappropriately supplying pharmaceutical drugs to the public or misappropriating drugs from the workplace:

- 1. What are the demographic profiles of practitioners?
- 2. What is the nature and patterns of conduct?
- 3. What factors contribute to their conduct?



Method

• Text mining tool developed to search AustLII for complaints against health practitioners for:

- inappropriate supply of drugs to the public; or
- misappropriation of drugs from their workplace.
- Scope: 1 July 2010 31 December 2016 (6.5 years);
 Australia-wide; Proven complaints only
- Ethics approval via UNSW HREA G (#HC17122)







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Australia's health workforce (2015)

- There were 437,276 were medical or dental practitioners, nurses / midwives or pharmacists registered and employed in Australia in 2015
- We identified 117 cases = only 0.027% of all practitioners







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Nature of conduct (n=117)



Steal group:





T-test, t = -5.1090, p < 0.001







Gender



Practitioner type



Pearson's chi-square, **p < 0.01, ***p < 0.001







Drug type



Pearson's chi-square, *p < 0.05, PIEDs = Performance and Image Enhancing Drugs (e.g. anabolic steroids)



Contributing factors



Pearson's chi-square, ** p < 0.01, ***p < 0.001







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Key findings

- The cases represent a small minority of the Australian health workforce
 population
- Supply cases are more common than misappropriation cases
- Misappropriation cases manifest in the context of personal health and substance use issues of the practitioner
- Medical practitioners lacking assertiveness may be targeted for Schedule 8 opioids and sedatives
- Pharmacists may be implicated in the unlawful supply of precursor drugs for financial gain





Policy implications

- Barriers to treatment for practitioners with health and substance use issues
 - Does mandatory reporting dissuade practitioners from seeking help?
- 2. Inadequate training and temperament by medical practitioners targeted
 - How can we identify and intervene early?
 - Potential value of real-time prescription monitoring in aiding decision-making and enhancing accountability
- Project STOP is compromised when pharmacists are implicated in oversupply of precursors



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Acknowledgements

- · Co-authors: Dr Djordje Djordjevic, Dr Caitlin Hughes, Dr Suzanne Nielsen
 - Associate Professor David Bright
 - An Australian Government Research Training Program Scholarship

supported this work

Disclosures of interest

 SN has been an investigator on an untied investigator-driven educational grant funded by Reckitt Benckiser and Indivior

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