

## Department of Emergency Medicine

### Research Output 2023-2024

#### Team Members:

- Associate Professor Joe-Anthony Rotella, ED Research Lead
- Ms Aisling Kiely, EDNAV Research Nurse (0.1 FTE)
- Ms Yasmin Sungkar, EDNAV Research Nurse (Acting, Annual Leave Cover)

#### Current Projects:

##### *Clinical Research*

- Cannabinoid HyperEmesis Syndrome: History, Investigation and Recovery Evaluation (CHESHIRE CAT)
  - Status: Data Synthesis
    - Northern Health Investigators: Joe-Anthony Rotella
- FLIP (Fast-Track Leadership and Implementation Physician) Evaluation Study
  - Status: Data Synthesis
    - Northern Health Investigators: Dan Crompton, Katie Smith, Matt Wilde, Joe-Anthony Rotella
- A survey of ED clinicians' perceptions regarding barriers and opportunities to the provision of care to LGBTQIA+ consumers
  - Status: Manuscript preparation
    - Northern Health Investigators: Joe-Anthony Rotella
- Personalised add-on Acupuncture service at Northern emergency Department for Acute pain (PANDA): a feasibility implementation study (Stage 1)
  - Status: Ethics submission
    - Northern Health Investigators: Heng Cheok, Joe-Anthony Rotella

##### *Systematic Reviews*

- Systematic review of the role of cyproheptadine in serotonin toxicity following deliberate drug overdose
  - Status: Manuscript preparation
    - Northern Health Investigators: Emily King (MD4), Joe-Anthony Rotella
- Systematic review pertaining to the diagnosis of Pathological Demand Avoidance (PDA)
  - Status: Manuscript preparation
    - Northern Health Investigators: Dylan Company (MD4), Joe-Anthony Rotella

##### *Case Reports*

- Deliberate semaglutide overdose causing delayed hypoglycaemia requiring hospital management
  - Northern Health Investigators: Monica McKay, Joe-Anthony Rotella
- A Case of Central Anticholinergic Syndrome
  - Northern Health Investigators: Alex Dawson, Saada Malouf, Joe-Anthony Rotella

#### Planned Future Projects:

- Clinical Research
  - External validation of PAWSS (Prediction of Alcohol Withdrawal Severity Score) in patients presenting to and admitted via the Emergency Department
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- Reviews
  - Systematic review of the management of GHB withdrawal
  - Scoping review of the role of baclofen in the management of GHB withdrawal
  - Scoping review: Experience of neurodivergent individuals in the hospital system
  - Umbrella review of the management of Cannabis Hyperemesis Syndrome

## Grants

- NH Research Foundation Grants
  - **2021 (near completion)**
    - Cannabinoid Hyperemesis Syndrome: History, Investigation and Recovery Evaluation (CHESHIRE CAT)
      - Northern Health Investigators: Joe-Anthony Rotella
  - **2024**
    - Personalised add-on Acupuncture service at Northern emergency Department for Acute pain (PANDA): a feasibility implementation study
      - Northern Health Investigators: Heng Cheok, Letty Bastian, Joe-Anthony Rotella

## Publications:

**O’Riordan B, Lee J, Rotella JA.** Anticholinergic delirium complicating mirtazapine overdose. Poster. TAPNA (Toxicology and Poisons Network Australasia) Conference May 2023

Syrjanen R, Schumann J, Hodgson SE, Abouchdid R, **Rotella JA**, Graudins A, Greene SL. From signal to alert: A cluster of exposures to counterfeit alprazolam tablets containing five novel benzodiazepines. *Emerg Med Australas.* 2023 Feb;35(1):165-167. doi: 10.1111/1742-6723.14108. Epub 2022 Oct 22. PMID: 36271800.

**Rotella JA, Ferretti OG, Raisi E, Seet HR, Sarkar S.** Response to Re: Cannabinoid hyperemesis syndrome: A 6-year audit of adult presentations to an urban district hospital. *Emerg Med Australas.* 2023 Feb;35(1):186-187. doi: 10.1111/1742-6723.14136. Epub 2022 Nov 7. PMID: 36344249.

Syrjanen R, Schumann J, Fitzgerald J, Gerostamoulos D, Abouchdid R, **Rotella JA**, Knott J, Maplesden J, Hollerer H, Hannon L, Bourke E, Hodgson SE, Greene SL. The Emerging Drugs Network of Australia - Victoria Clinical Registry: A state- wide illicit substance surveillance and alert network. *Emerg Med Australas.* 2023 Feb;35(1):82-88. doi: 10.1111/1742-6723.14059. Epub 2022 Aug 29. PMID: 36053993.

Syrjanen R, Greene SL, Weber C, Smith JL, Hodgson SE, Abouchdid R, Gerostamoulos D, Maplesden J, Knott J, Hollerer H, **Rotella JA**, Graudins A, Schumann JL; EDNAV project research group. Characteristics and time course of benzodiazepine-type new psychoactive substance detections in Australia: results from the Emerging Drugs Network of Australia - Victoria project 2020-2022. *Int J Drug Policy.* 2023 Dec;122:104245. doi: 10.1016/j.drugpo.2023.104245. Epub 2023 Nov 7. PMID: 37944339.