A provisional evaluation of Australia's medical cannabis program – Adverse events

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Disclosures

I declare that I have received funding from:

- Australian Government, Department of Health and Aged Care
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- University of Newcastle
- NSW Health's Clinical Cannabis Medicines Program



Background

- Prescribed medicinal cannabis (e.g. delta-9-tetrahydrocannabinol) available since 2016
- Medicalized model medical doctors and nurse practitioners prescribe

Registered products

- Sativex
- Epidiolex
- Low dose CBD –
 Provision for OTC
 supply but no products
 currently available

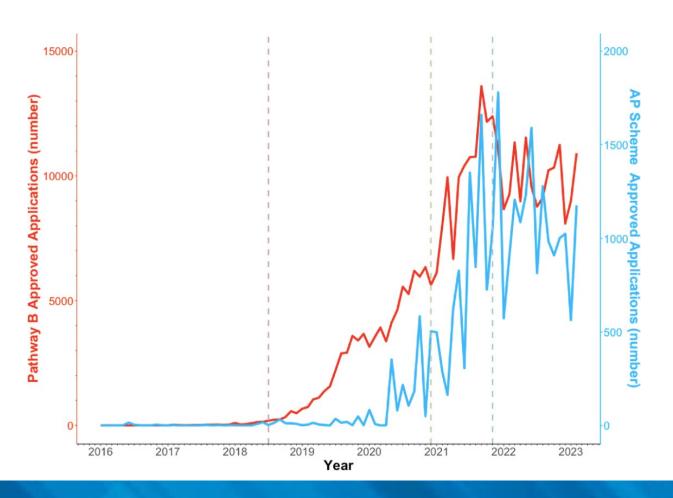
Unregistered products

- >400 products
- Most medicinal cannabis prescriptions in Australia
- Various cannabinoid compositions and dose forms

The presentation will focus on voluntary adverse event reports related to <u>unregistered</u> medicinal cannabis to the federal medicine regulator the Therapeutic Goods Administration.



TGA Prescription approvals



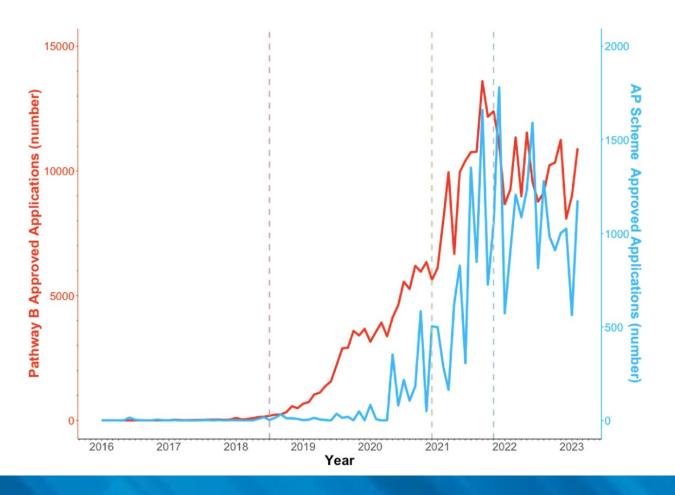
Prescribers apply to the TGA for approval to prescribe medicinal cannabis via SAS or AP pathways

- July 2023 385,163 SAS-B approvals and 5084 prescribers
 31,190 AP applications and 2100 prescribers
- October 2024 587,702 SAS-B approvals and 5996 prescribers
 56,857 AP applications and 2993 prescribers

Graham et al. 2023 IJDP



TGA Prescription approvals



Pivotal federal regulatory shifts (dashed lines), including:

- online application portal (July 2018)
- low dose CBD announcement (December 2020)
- change to AP pathway and medical cannabis category based approvals (November 2021).

In parallel, increased prescribing via cannabis clinics (e.g. telehealth)

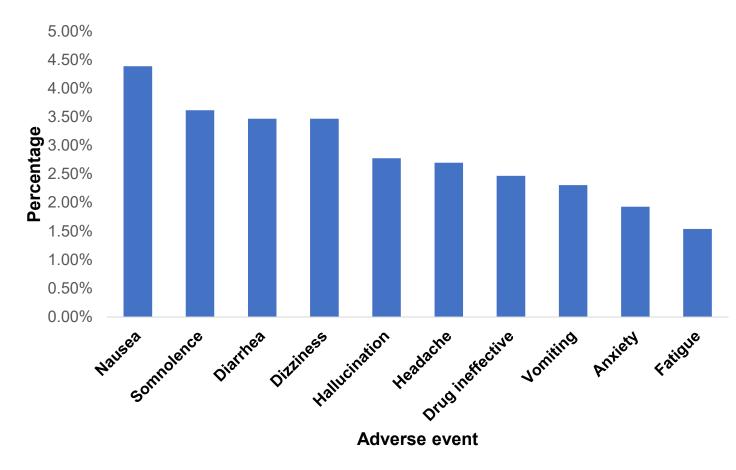
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Prescribed medical cannabis – Adverse events

- Internal AE data was obtained via a freedom of information (FOI) request.
- Reports to the TGA 29/09/2016 to 21/03/2023*
- 1297 AE were reported in 549 unique reports

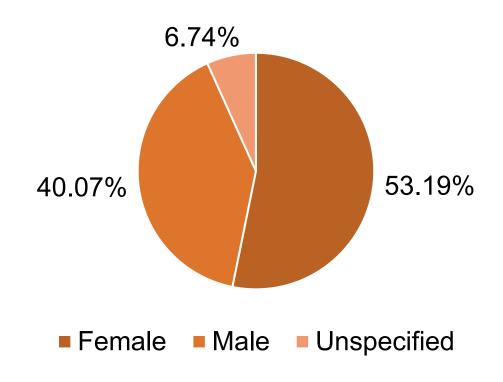
Nervous system, psychiatric and gastrointestinal adverse events reported here are consistent with international AE data



*and DAEN data up to 14/07/2023. Graham et al. 2023 IJDP



Adverse events – Demographics and products









CBD+THC 59.02%

CBD only 39.53%

THC only 1.46%

Less than 18 years old 17.26% Greater than 65 years old 26.19%



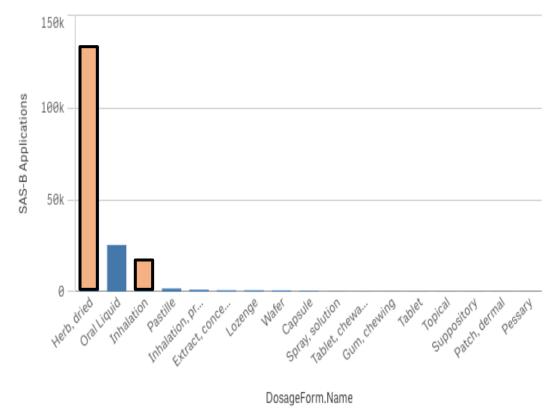
Cannabinoid-drug interactions 37.7% (n = 207/549)

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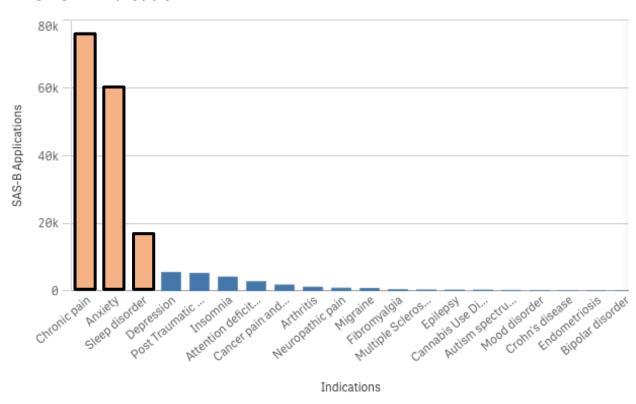


Shift in prescribing patterns – Oil to inhaled products





SAS-B Indication



TGA SAS-B dashboard 24th Oct 2024

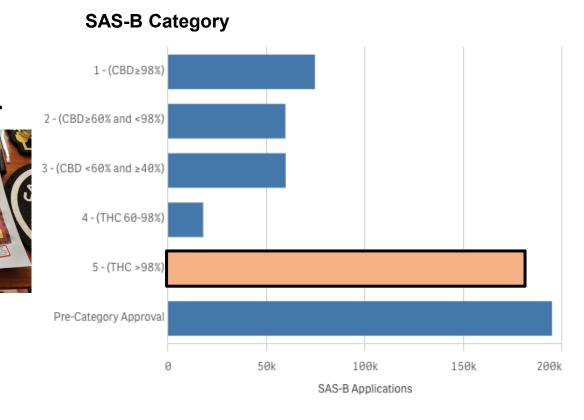


High-potency THC products in a medical market

Some prescription products available for inhalation have **higher THC potency** than would be anticipated for a medical market and are in the potency ranges seen in recreational markets.

- Extracts up to 88%
- Flower up to 60% (biological limit ~35%)
- Inhalation up to 880 mg/mL and 85%
- Oral liquid 20 mg/mL to 50 mg/mL

Between Sep 2022 to Oct 2023, >60% of the prescription approvals for anxiety were Category 5 THC dried herb and inhalation products.



TGA SAS-B dashboard 24th Oct 2024



Conclusions

- Following the shift in prescribing approval patterns towards higher THC potency inhaled products, it will be critical to track adverse event trends using a variety of data sources.
- Although the proportion of the population accessing regulated prescribed medicinal cannabis in Australia has increased over time, it is still less than the proportion that access cannabis outside of regulated pathways.
- Therefore, comprehensive cannabis pharmacovigilance frameworks are essential to provide more detailed insights into its safety profile and health outcomes.









Thank you

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- Wayne Hall

QR code for the full paper in IJDP



Cross-National Survey of Clinical Decision-Making About Medical Cannabis Products (New York State, United States; Australia)

This study seeks to improve understanding of cross-national health professional and non-health professional practices and information needs related to medical cannabis products.



University of Newcastle HREC Approval No. H-2023-0199; University of Southern California IRB Approval No. UP-23-01039.

This research is open to all persons aged 21 years or older who consent to participate and are currently registered medical practitioners in Australia.

You will have the opportunity for compensation for your time and expertise.

For further information, please visit the study <u>webpage</u> or contact the study team directly at <u>clincan.study@monash.edu</u>



