



Australian Government  
Department of Health

# REGULATORY FRAMEWORK AND CLINICAL EVIDENCE FOR MEDICINAL CANNABIS PRODUCTS

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**Deputy Secretary**

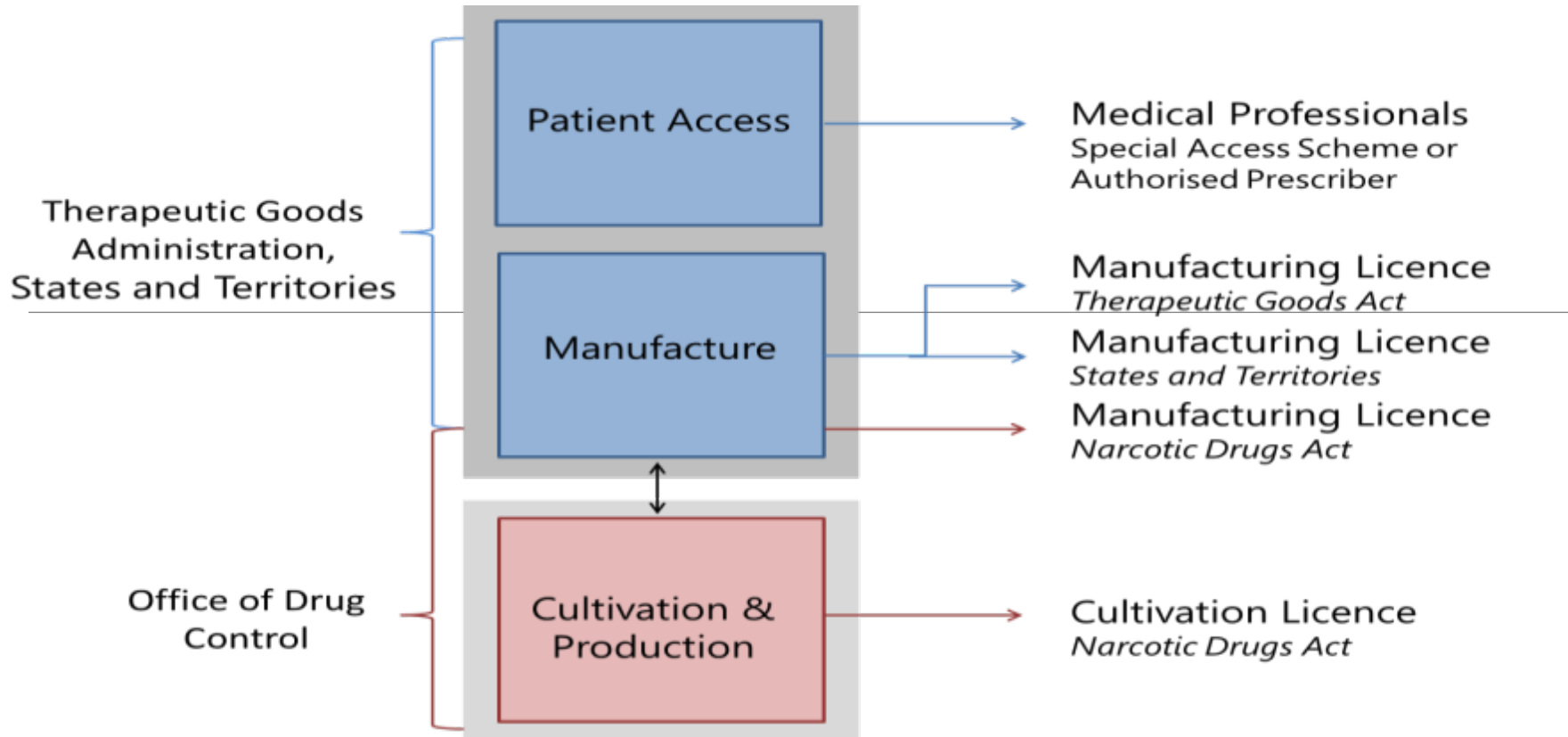
**Commonwealth Department of Health, Canberra**

**Rural Medicine Australia 21 Oct 2017**



# The government's intent

- Provide **patient access to Australian-grown and manufactured medicinal cannabis** outside the standard registered medicines route
- **Provision of a quality medicine** through doctors prescription
- **Encourage clinical trialling** for potential future TGA registration
- **The Health Products Regulation Group has oversight**
  - Cultivation and manufacture (Office of Drug Control)
  - Product GMP, product scheduling and patient access through the Therapeutic Goods Administration (TGA)
- **States and Territories** also have a role in regulation





# Regulating cultivation and manufacture

- In 2016, Government **amended the *Narcotic Drugs Act 1967*** to
  - allow cannabis to be treated as a medicine
  - provide for cultivation, manufacture and trade of medicinal cannabis
- Controlling the **production of a narcotic drug**
  - Cultivation and manufacture licences and permits, quality requirements
  - Fit and proper persons requirements, Security and inspections
- Controlling the **import and export of narcotics**
  - Sponsored import of “bulk” medicinal cannabis products
  - Patient by patient imports and travellers’ exemption



# Cannabis licence types

- **Four types of licences:**
  - **Medicinal cannabis (cultivation) licences**
  - **Cannabis research licences, manufacturing licences and import licences**
- Under the ***UN Single Convention on Narcotic Drugs*** cultivation for medicinal purposes can only occur under Australian Government licences
- **Permits** (under individual licences) allow the Government to restrict how much is cultivated and manufactured to prevent accumulation





# Licences, permits and bulk imports

- **21 licences granted** as at 10 October 2017, including:
  - 9 Medicinal cannabis licences (cultivation and production)
  - 6 Cannabis research licences (cultivation and production)
  - 6 Manufacture licences
- **Applications for licences are still being received** and processed
- 3 applications for **permits** under licences have been granted thus far
- **Sponsored imports of bulk products** to reduce cost and delays involved in individual importation



# Individual importation of medicinal cannabis

- **Medical practitioners** can arrange patient by patient importation to fill prescriptions issued using TGA SAS A
  - Requires a licence under the *Customs (Prohibited Import) Regulations 1956*
- **Individual patients** can utilise travellers' exemption
  - to carry up to 3 months supply of medicines with them on a ship or aeroplane entering into Australia with a valid doctor's prescription
  - Prior State Health Department approval may also be required





# Concerns about quality of cannabis products

- Variation in **cannabinoid content**, in particular of active ingredient(s)
- Contamination with **pesticides, microbe, mycotoxins**
- Contaminants arising from the **manufacturing process** e.g. solvents
- Adulteration with **synthetic psychoactives, synthetic THC**

## TGA has introduced controls

- **Therapeutic Goods Order 93** sets out minimum requirements for the quality of products and raw materials
- **Medicine GMP requirements** on the manufacturing process





# Medicinal cannabis products are available through “unapproved products” pathways

- **Authorised prescriber**
- **SAS A - notification pathway** for patients who are seriously ill with a condition from which death is reasonably likely to occur within a matter of months, or from which premature death is reasonably likely to occur in the absence of early treatment
- **SAS B - application pathway** for patients that do not fit SAS A and where the product is not included on the list for SAS C notification
- For help 800 220 007/ 02 6232 8866, [medicinal.cannabis@health.gov.au](mailto:medicinal.cannabis@health.gov.au)



# SAS B and Authorised Prescriber

Criteria depend upon the patients, product, prescriber

## **Authorised Prescribers must:**

- have training and expertise appropriate for the condition and the proposed use of the product, and
- be able to best determine the needs of the patient and to monitor the outcome of therapy

## **Patient and clinical justification**

- patient information, diagnosis and indication treated
- the seriousness of the condition
- details of past treatment
- expected benefits from the use of the product



# Product details

- Trade name - Manufacturer/Company/Supplier
- Dose Form i.e. tablet, extract and active ingredients
- Shelf-life and Storage Conditions
- Compliance with TGO 93 for composition / contamination

## Administration details

- Dosage, Route of administration, Duration of treatment

## Monitoring Detail:

- Efficacy of the treatment, adverse events/reactions
- Human studies to demonstrate efficacy and safety data
- Evidence levels depend on seriousness of the condition



# Notifications (SAS A) and Applications (SAS B and AP)

1 January 2016 to 10 October 2017

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## SAS A Notifications

- 5 since June 2017 disallowance

## SAS B Applications

- Approved applications -173 (rest pending further information or withdrawn)
- 74 for cannabidiol, rest for THC/ CBD in various ratios
- Range of dosage forms for products

## Authorised Prescriber Applications

- Approved – 27 (and pending – 6) (101 patients to June 2017)



# Community hope and belief



“ Please can someone recommend the best oil  
And how I can get it. I have stage 4 aggressive bowel cancer. ”

“ Could someone please PM me and let me know how I can get cannabis oil  
for my son who has brain cancer, we have gotten him cannabis but have  
had no luck at all getting the oil, we are desperate at this stage. ”

“ Hi, how can I get some oil to try. I have terminal lung cancer and didn't  
think you could get it in oz. Please pm me if possible. Thanks heaps. ”

“ Ordered my oil today. Can't handle the side effects of the drug I have to  
take for my brain tumour. Fingers crossed it helps! ”

“ Has anyone here cured Esophagus Cancer  
with Cannabis oil? ”

“ If anyone could point me in the right direction for CBD and THC for my  
mum's lung cancer, please pm me. Based in Melbourne ”

“ I have several autoimmune diseases including Hashimoto's thyroiditis. I've  
heard cannabis can work in healing my thyroid. I'm clueless about cannabis.  
Any info would be great. ”

“ My cousin has Aspergers and autism. He self harms, screams and makes  
so much noise the neighbours and nursing home want to evict him. We  
are desperate for some CBD oil  
How do I get access to it... Thank you ”

“ Hi folks. I have a very rare disease that causes severe pain all over my body.  
I have the flowers, I would like to know of a recipe to produce pain capsules  
or oil that I can ingest, because I just found out I have emphysema and  
need to stop smoking. Cheers. ”



# Clinical evidence reviews

- **Conducted by team** from U NSW, U Sydney, U QLD and collaborators
- Focus on epilepsy, MS, pain types, nausea and vomiting and palliative care
- Systematic reviews of **published reviews** and **findings of individual studies** using Medline, Embase, PsycINFO, and EBM Reviews
- **Studies published** from 1980 to early 2017
- **Priority was given to RCTs but also included observational studies**, e.g. case reports, retrospective chart reviews, self-report surveys
- Anticipated that **these reviews will be published in the next few months** in international journals – currently being reviewed



# Epilepsy

- Five RCTs and 17 observational studies were identified - **all examined CBD as adjuvant treatment** (in addition to standard antiepileptic drugs)
- **Randomised controlled studies**
  - In patients with paediatric-onset drug-resistant epilepsy CBD products reduced seizure frequency and achieved seizure freedom compared with placebo
  - 14% of patients withdrew because of treatment-related adverse events
  - Doses of cannabidiol required were reasonably high (20mg/kg/day)
- **Observational studies:**
  - In 14 of 17 studies, 56% of patients reported reductions in seizures of 50% or more.
  - In 7 paediatric studies 13% were estimated to be seizure-free
  - 10 studies reported improved quality of life in paediatric and adult groups



# Cancer and HIV induced nausea and vomiting

- 11 met inclusion criteria, but were mainly against old medicines
- In **managing CINV in adults**, THC/ analogues were more effective than placebo, and as effective prochlorperazine at completely controlling nausea and vomiting, and controlling/reducing nausea
- Comparison of cannabinoids against **newer antiemetics** is required
- Research on cannabinoids for **CINV in children** is more limited
- Evidence of efficacy of cannabinoids in treating **nausea and vomiting in late stage AIDS and terminal cancer** was equivocal





# Palliative care

- 9 double blind or open label RCTs studies with a total of 1561 participants were included, but evidence was low quality
- **In cancer patients**, there were **no significant differences** between cannabinoids and placebo for improving caloric intake, appetite, nausea/vomiting, pain, dizziness, mental health or sleep problems
- **In HIV patients**, cannabinoids were superior to placebo for weight gain and appetite **but not for nausea/vomiting**
- **No convincing evidence** suggesting that cannabinoids are of value for anorexia or cachexia (weakness and wasting) in cancer or HIV



# Multiple sclerosis

- **Nabiximols are TGA approved** for the use in MS for muscle spasticity.
- 11 systematic reviews with data from 32 studies with 3146 patients.
- These included 10 moderate/high-quality RCTs, that examined if cannabinoids reduced pain and spasticity.
- Five reviews concluded that there was **evidence that cannabinoids** may be effective for symptoms of **pain and/or spasticity** and positive effects on **sleep and bladder symptoms**
- **Mixed findings** were reported on quality of life, ataxia/tremor and disability/disease progression
- A **lack of studies** with non-cannabinoid comparators is a major evidence gap



# Chronic non-cancer pain

- 102 trials of all types of study designs considered
- Most studies with nabiximols, THC/ analogues, THC-rich preparations
- Most evidence on cannabinoids was from studies where **cannabinoids were adjuvant interventions and not first line treatments for pain**
- Patients who had cannabinoids for **MS-related neuropathic pain** were more likely to experience a 30% reduction in pain (low confidence) and decrease in pain scores (moderate confidence)
- patients who had cannabinoids for **non-MS related neuropathic pain** were more likely to experience a 50% reduction in pain and a reduction in pain scores
- **Insufficient information** to make a conclusion about cannabinoids for the treatment of pain associated with **arthritis and fibromyalgia**



# Draft clinical guidance documents

- **Draft “clinical guidance documents”** for the use of cannabinoids are being developed for epilepsy, MS, pain types, nausea and vomiting and palliative care
- **Decisions on patient access** to particular cannabis products will be made by the treating physician with clinical oversight from the state/territory health departments and TGA
- **Aim to documents by end 2017** with input by Australian clinical experts and patient groups

