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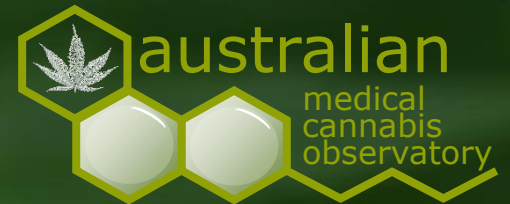
Saturday, August 10, 2019

(Plenary)

11:00 - 11:20 The Global Perspective and Experience

Medical Cannabis- The Global Perspective

*Associate Professor David Caldicott
B.Sc (Hons), MBBS(Lond.), FRCM, Dip.Med.Tox*



Parental Advisory...



I'm a fairly simple man...





Gamekeeper turned poacher...

Keep off the grass: marijuana use and acute cardiovascular events

David G.E. Caldicott^a, James Clayton^a, Kurt R. Thompson^b and Leo Mahar^b

Marijuana is one of the most widely used recreational substances in the world, considered by many consumers as a relatively safe drug with few significant side-effects. We report the case of a 21-year-old man who suffered an acute myocardial infarction following the use of marijuana, despite having no other identifiable risk factors for an acute cardiovascular event. We review the published medical literature regarding acute cardiovascular events following marijuana use and postulate a possible mechanism for this unusual pathological consequence of marijuana use. *European Journal of Emergency Medicine* 00:000–000 © 2005 Lippincott Williams & Wilkins.

European Journal of Emergency Medicine. 2005, 00:000–000

Keywords: Cannabis, infarction, ischaemia, marijuana

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Gamekeeper turned poacher...

CLINICAL TOXICOLOGY, 2015
<http://dx.doi.org/10.3109/15563650.2015.1110590>



Taylor & Francis
Taylor & Francis Group

RESEARCH ARTICLE

A systematic review of adverse events arising from the use of synthetic cannabinoids and their associated treatment

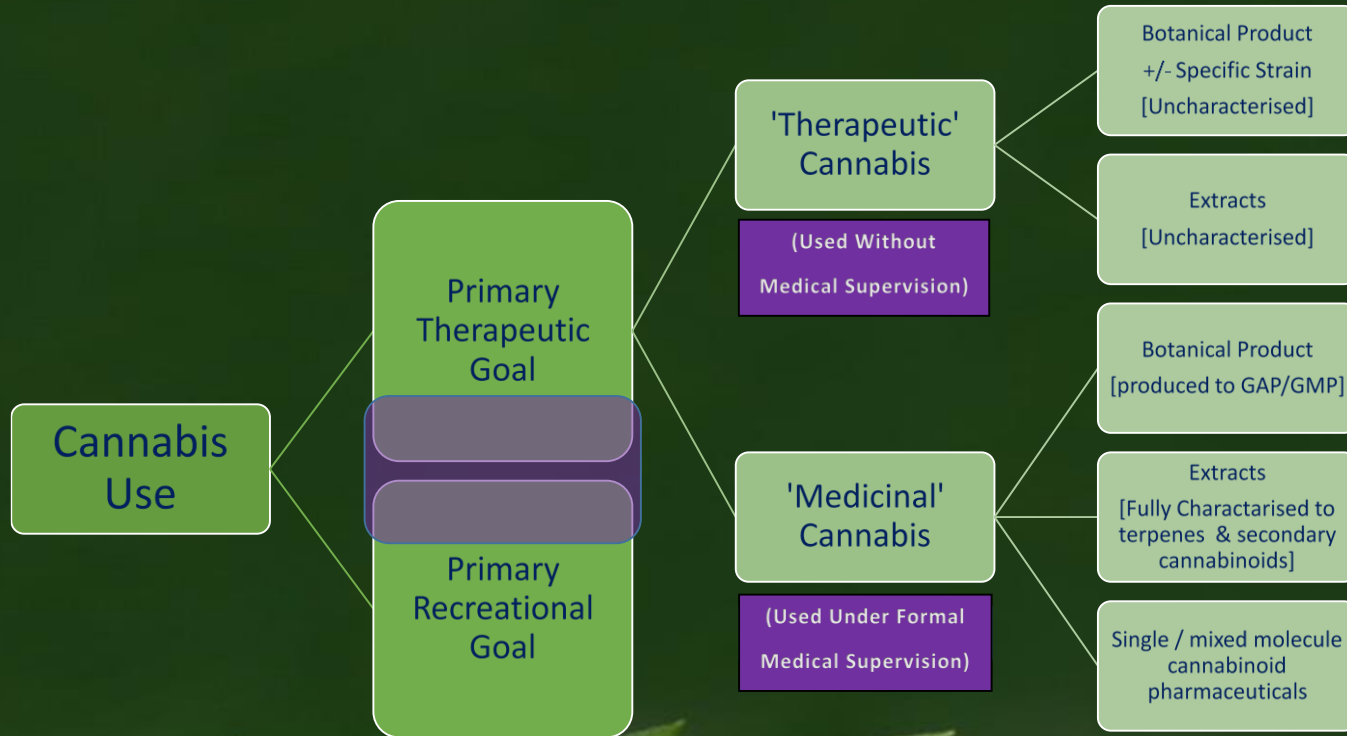
Robert J. Tait^a, David Caldicott^{b,c,d}, David Mountain^{e,f}, Simon L. Hill^g and Simon Lenton^a

^aFaculty of Health Sciences, National Drug Research Institute, Curtin University, Perth, WA, Australia; ^bEmergency Department, Calvary Hospital, Canberra, ACT, Australia; ^cDepartment of Emergency Medicine, Australian National University, Canberra, ACT, Australia; ^dDepartment of Health & Design, University of Canberra, Canberra, ACT, Australia; ^eAcademic Emergency Medicine, School of Primary, Aboriginal & Rural Health Care, University of Western Australia, Perth, WA, Australia; ^fDepartment of Emergency Medicine, Sir Charles Gairdner Hospital, Perth, WA, Australia; ^gNational Poisons Information Service, Newcastle upon Tyne Hospitals NHS Foundation Trust, Newcastle University, Newcastle upon Tyne, UK



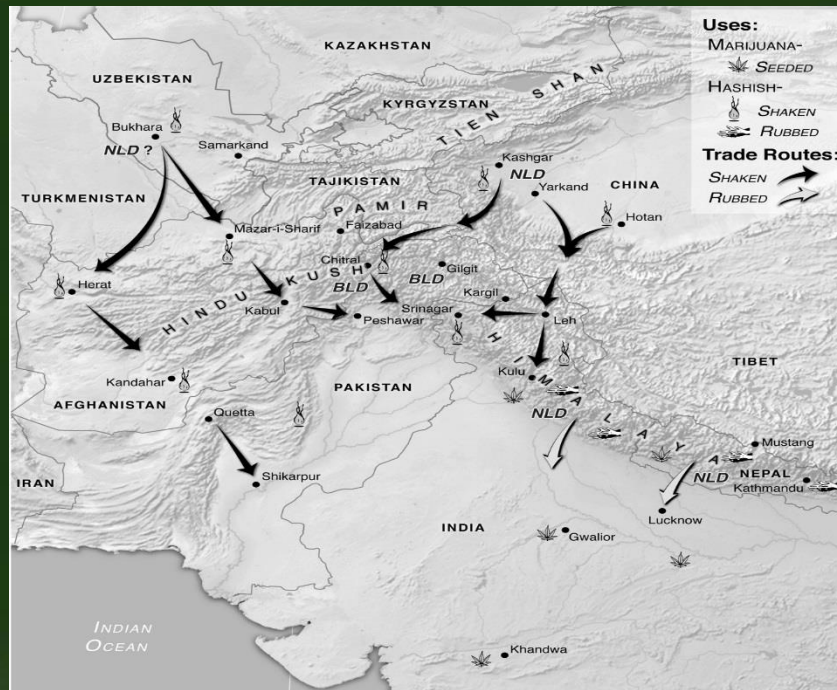
No apologist for cannabis...





Medical Cannabis- Ancient History

- Probably originated in Central Asia
- Use predates writing in human evolution



Trade routes of broad leaf drug variety throughout the Central Asian region.

Medical Cannabis- Ancient History



Çatalhöyük, 8000BC

<http://www.catalhoyuk.com/>

- Hemp was one of the first plants ever cultivated
- Extensively used for food and fibre
- Probably quickly followed by medicinal use



It's mostly been a medicine...



Earliest
recorded
History, 00:00



Prohibition,
23:58.34

The Origins Of 'The War on Drugs'...

- ...started with a War on Cannabis



The Origins Of 'The War on Drugs'...

- ...started with a War on Cannabis
 - Repeal of Prohibition in 1933
 - Left 35,000 officers twiddling their thumbs
 - Needed a new target...

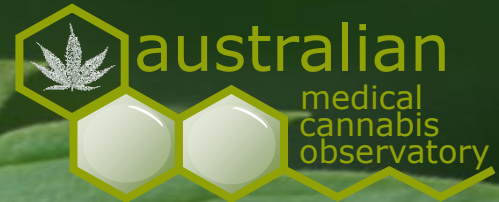




Harry J Anslinger
Commissioner of Federal
Bureau of Narcotics
(1930-1962)

The Gems of Harry J. Anslinger

“There are 100,000 total marijuana smokers in the US, and most are Negroes, Hispanics, Filipinos and entertainers.”



The Gems of Harry J. Anslinger

“This ‘marijuana’ causes white women to seek sexual relations with Negroes, entertainers and any others.”

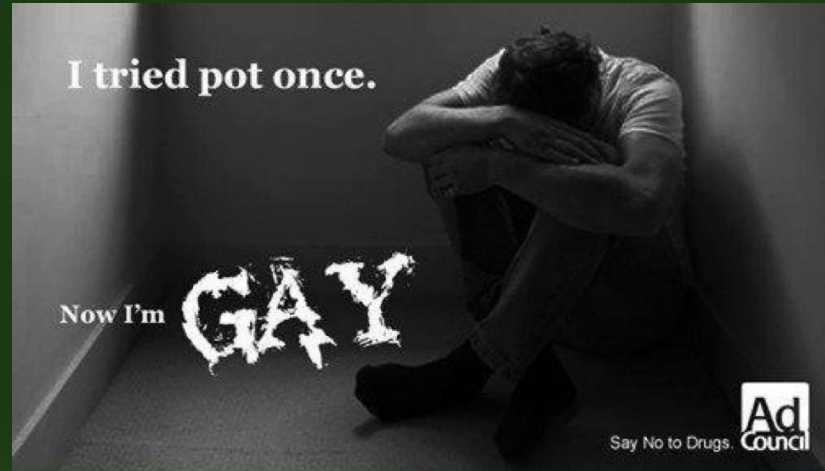
“ Reefers make darkies think they are good as white men”

A close-up photograph of several green cannabis leaves, showing their serrated edges and prominent veins, positioned at the bottom of the slide.

Traditional attitudes to cannabis...



Traditional attitudes to cannabis...



International Legal Situation

- Cannabis is in Schedule IV of the United Nations' Single Convention on Narcotic Drugs (1961), making it subject to special restrictions.
- Article 2 provides for the following, in reference to Schedule IV drugs:
 - A Party shall, if in its opinion the prevailing conditions in its country render it the most appropriate means of protecting the public health and welfare, prohibit the production, manufacture, export and import of, trade in, possession or use of any such drug except for amounts which may be necessary for medical and scientific research only, including clinical trials therewith to be conducted under or subject to the direct supervision and control of the Party.



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"As the National Institute on Drug Abuse, our focus is primarily on the negative consequences of marijuana use.

We generally do not fund research focused on the potential beneficial medical effects of marijuana."

Shirley Simson, NIDA
New York Times, 2010

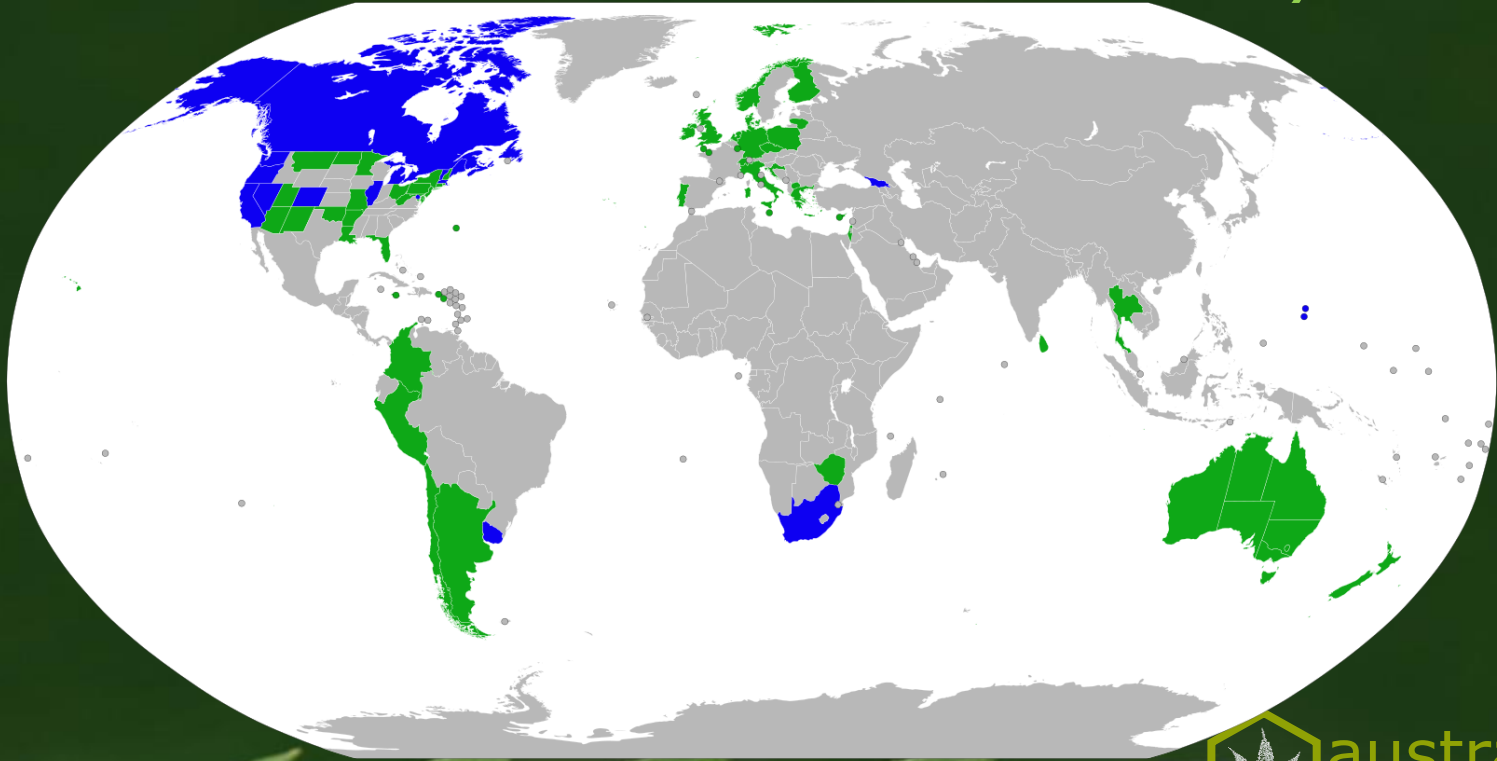


Cannabinoid Publications

“Medical (cannabis OR marijuana)”



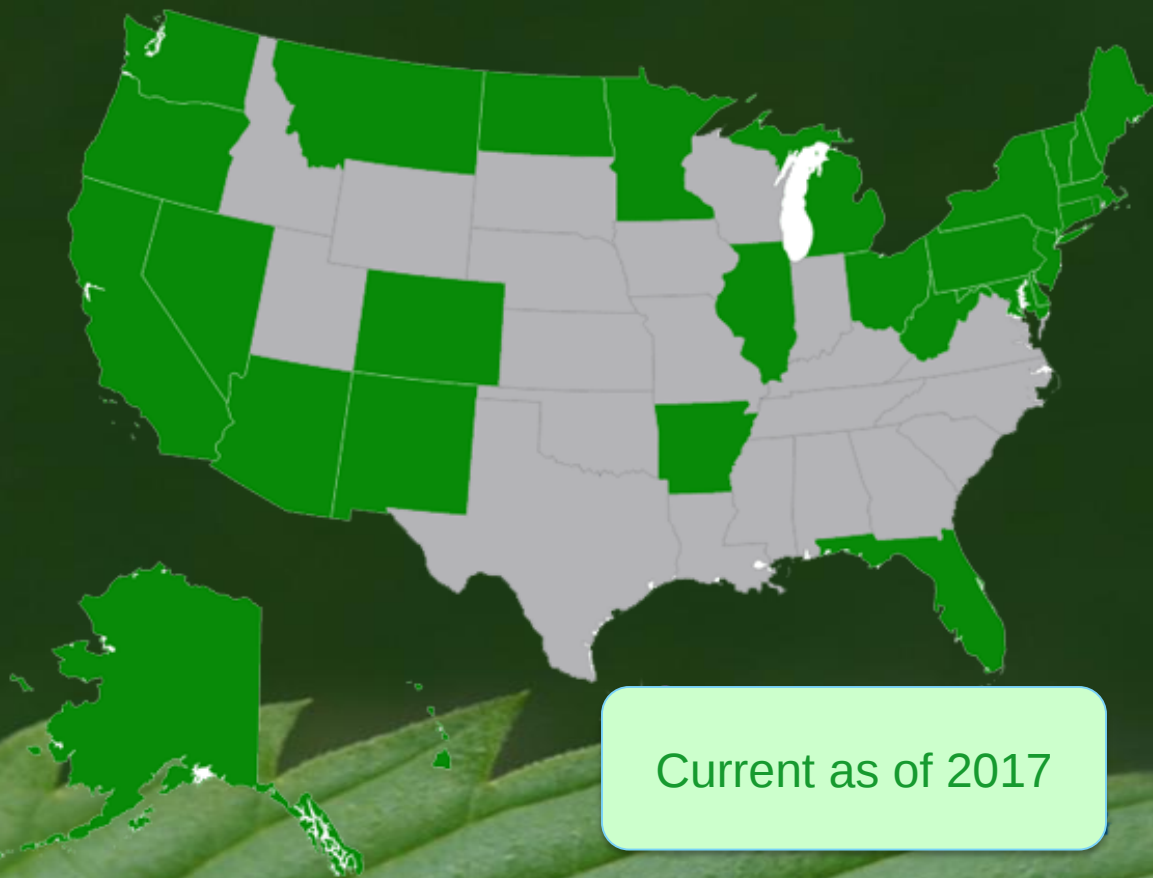
Global Medicinal Cannabis Law, 2019



Requires a prescriber
No prescriber required

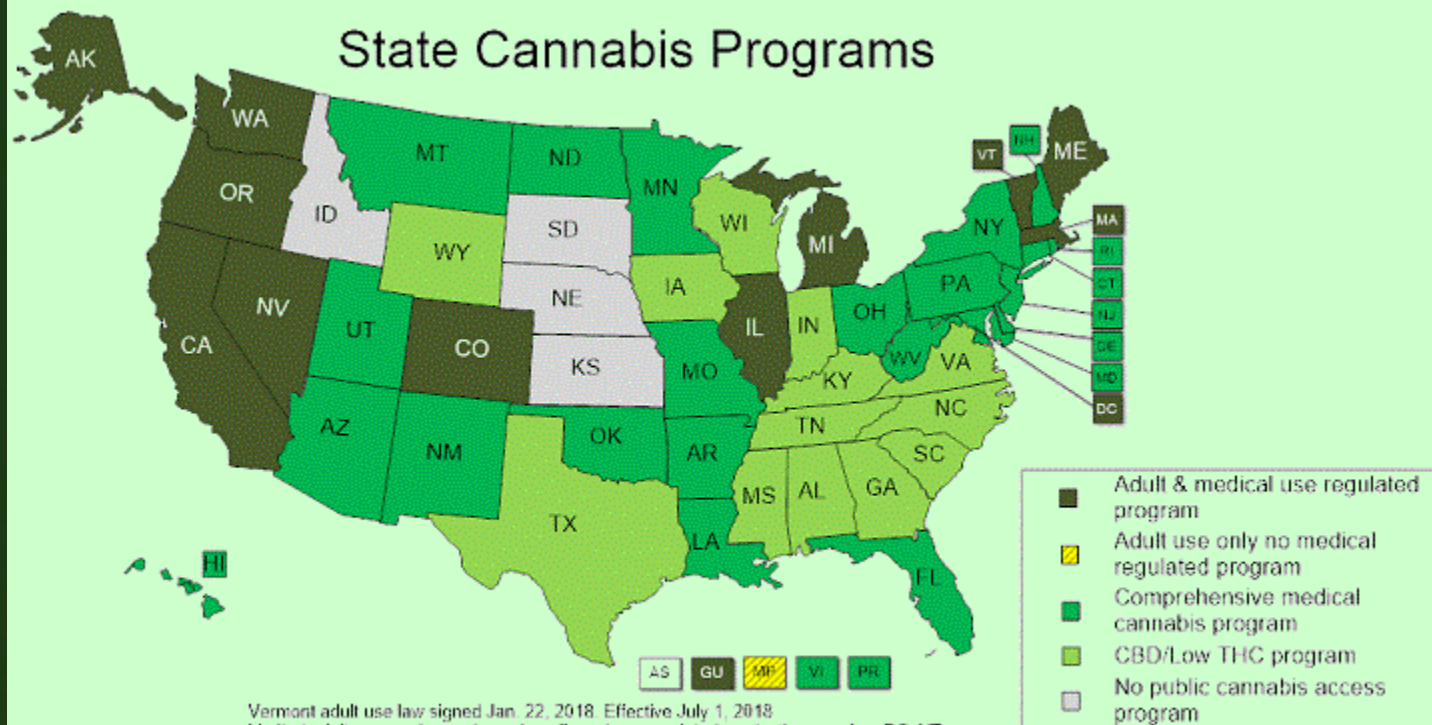


29 LEGAL MEDICAL MARIJUANA STATES AND DC



Current as of 2017

State Cannabis Programs



August 1, 2019

The sky has not fallen in.

- Just ENORMOUS overseas experience...



>200,000 officially approved patients



>30,000 officially approved patients

Family practitioners considered as 'proper doctors'

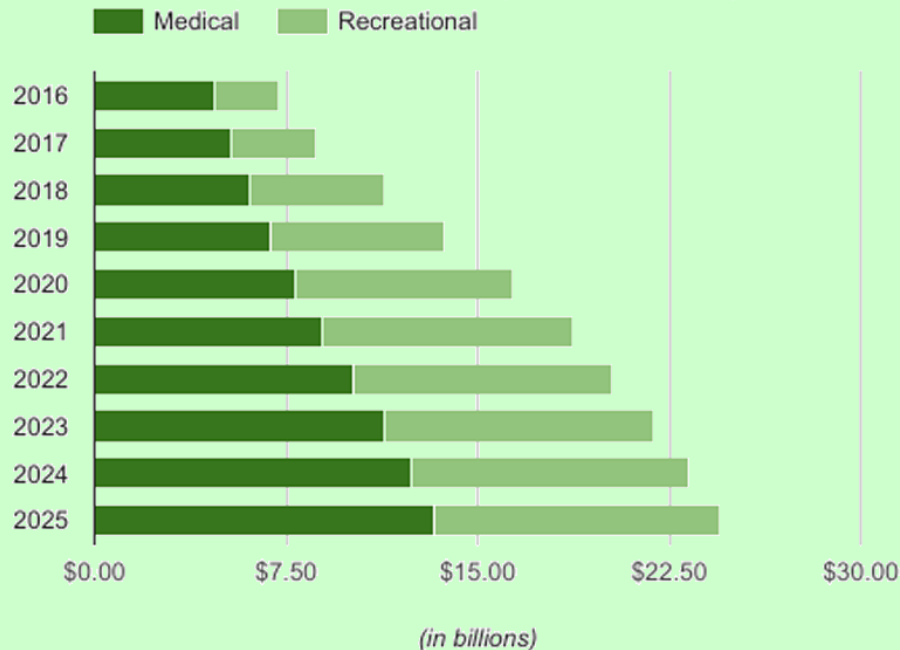
'The Medicalisation of Cannabis'



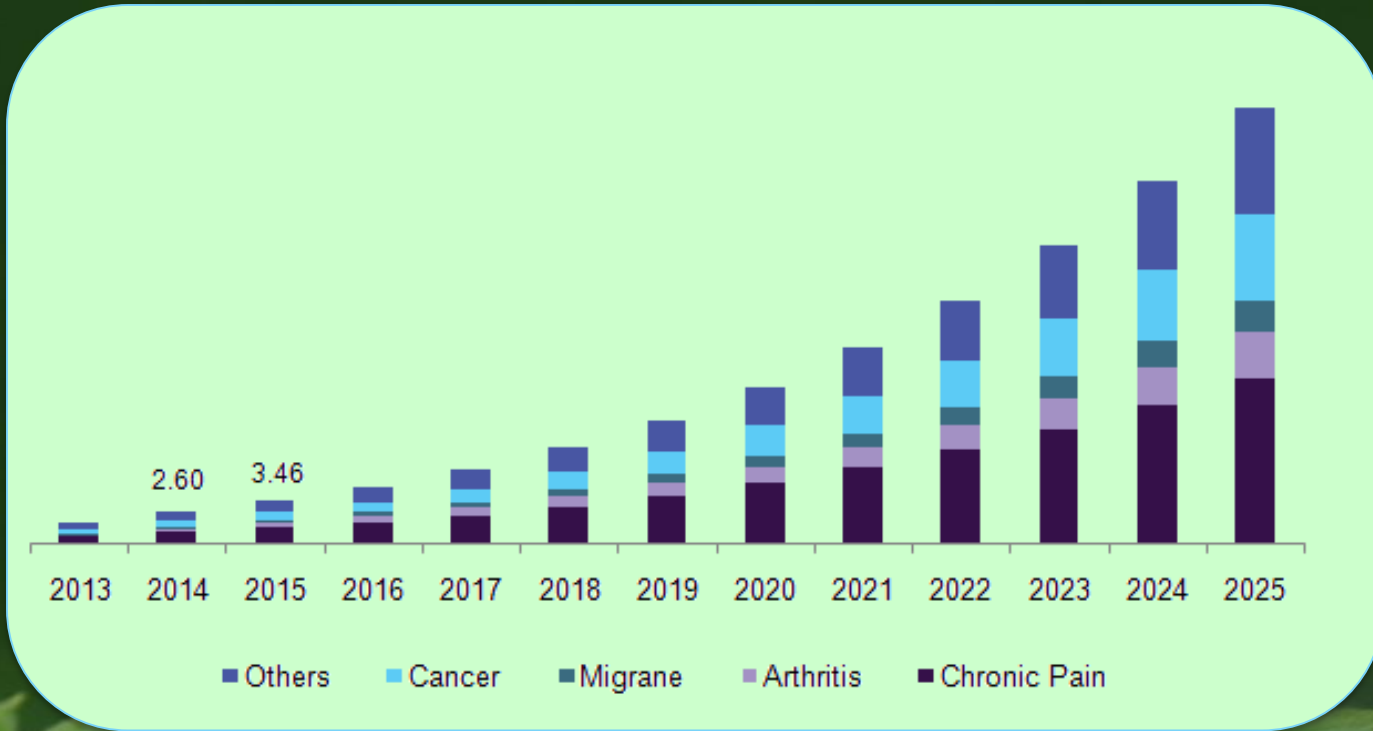
'The Green Book'

Predicted Value of US market

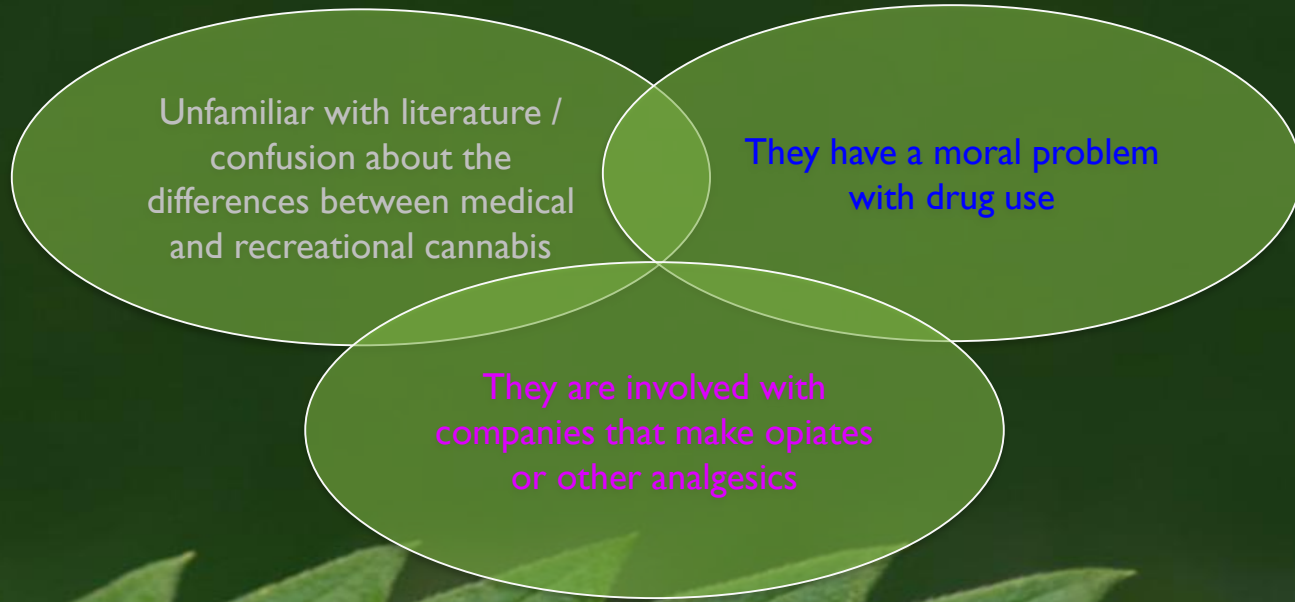
U.S. marijuana market projections through 2025



Predicted Value of US market



Who is *opposed* to medicinal cannabis?



Beneficiaries



Dr. Mark L. Kraus



Dr. Herbert Kleber



Dr. A. Eden Evins



CRIME & DRUGS

**Leading Anti-Marijuana Academics Are Paid By
Painkiller Drug Companies**

By Lee Fang

September 7, 2014 | 11:19 pm

Other beneficiaries...



US news

Big Pharma's anti-marijuana stance aims to squash the competition, activists say

Pharmaceutical company Insys spent \$500,000 to block legalization in Arizona. Five months later it won approval for a cannabis-derived medical drug



Boehringer
Ingelheim

janssen



Lilly

mundipharma

National Pain Strategy

Pain Management for all Australians

inova
pharmaceuticals

Pfizer

A U S T R A L I A

Medtronic



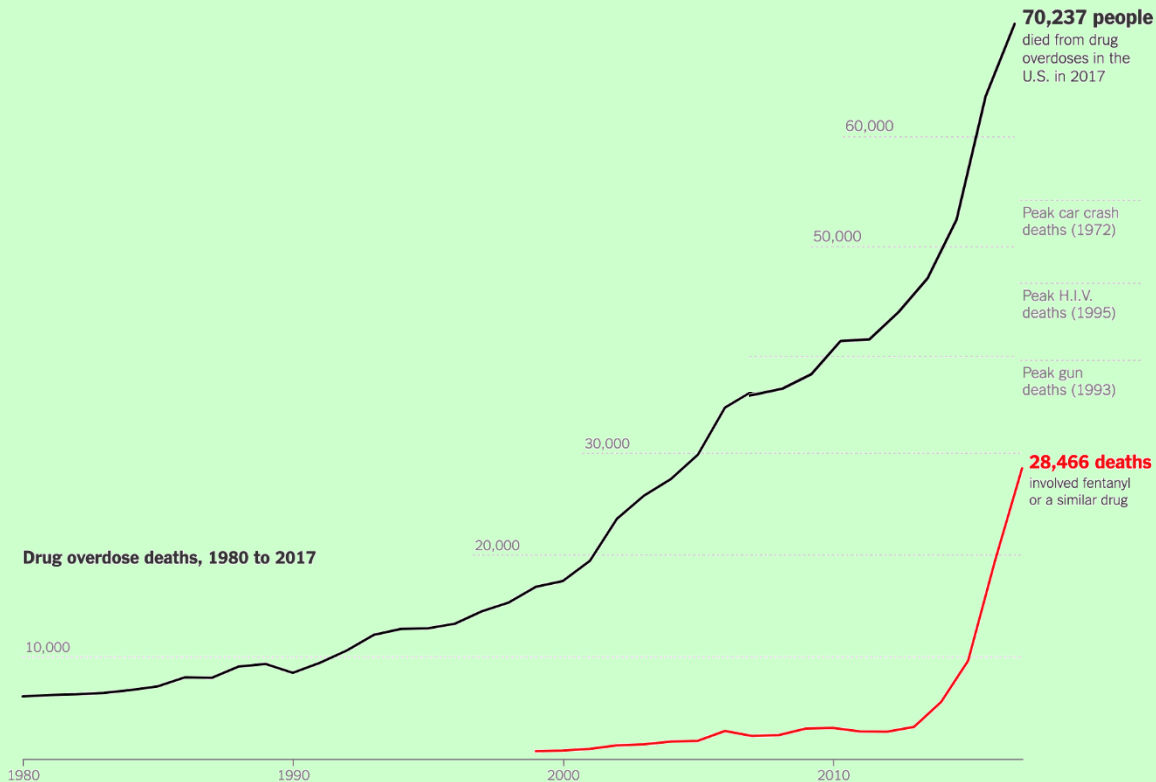
MSD

CSL Biotherapies

“Tactical Framing”

[Painaustralia’s submission](#) to the Australian Centre for Cannabinoid Clinical and Research Excellence (ACRE) prescribing guidelines consultation argues that this treatment remains an option of last resort for chronic pain due to a lack of evidence about the safe and effective use of the drug, possible unintended consequences and prohibitive cost.

Meanwhile, in the USA...





Observations

Can Cannabis Solve the Opioid Crisis?

Probably not—but it might be part of the solution

By Jonathan N. Stea on March 15, 2019

Manufacturers of analgesics are displeased...



Compassion and evidence in prescribing cannabinoids: a perspective from the Royal Australasian College of Physicians

The RACP emphasises the need for caution until there is sufficient quality evidence to support the use of medicinal cannabis

The pace and scale of the introduction of medicinal cannabis are unprecedented and have raised challenges for health professionals, not so much because of its known addictive and psychoactive properties but because its introduction has not followed the usual research-based safety and effectiveness processes. These processes include pharmaceutical,

There are reasons for concern about the push for doctors to prescribe cannabinoids. For example, in bypassing typical TGA requirements, widespread prescription will likely remove incentives to invest in critical research necessary to understand these potential therapeutic agents and their effectiveness in treating a range of conditions in the long term. Losing the opportunity to gain sufficient high



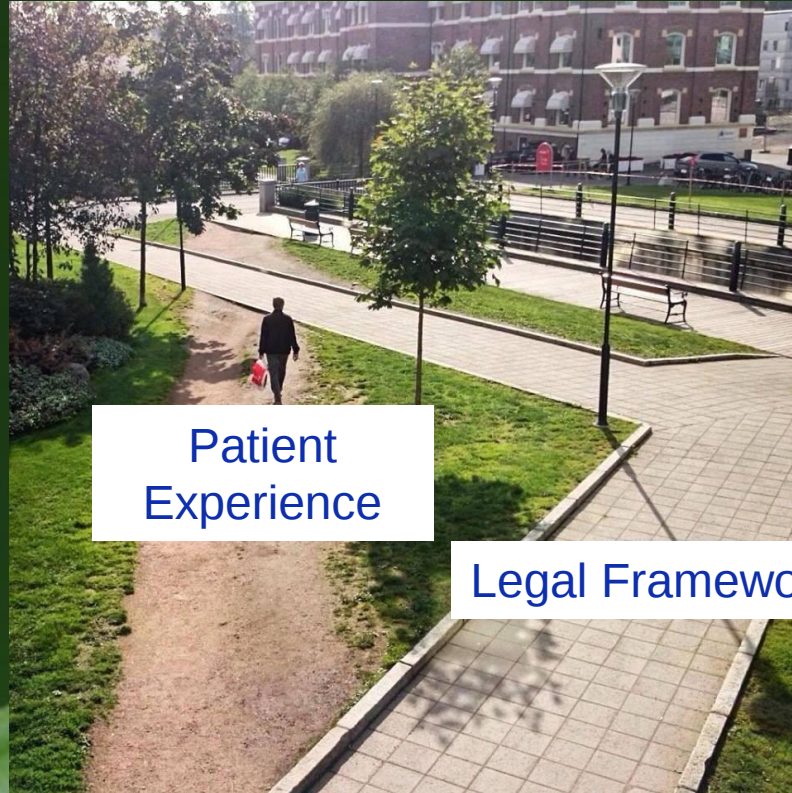
So, where are we going?



So, where are we going?

- Inevitable expansion of this area of medicine
- Legislation needs to make access easier for legitimate patients than the black market.

What does 'good legislation' look like?



Patient
Experience

Legal Framework

This won't be easy for everyone...

NEWS IN BRIEF

Inconsolable Jeff Sessions Tries To Commit Suicide By Smoking Joint

Yesterday 2:39pm • [SEE MORE: JEFF SESSIONS](#) ▾



The Need for Civility...

LETTER

What we know, and don't know, about cannabis, psychosis and violence

Joseph M Boden, Janet K Spittlehouse

Her first injection was a **VACCINATION...**



It began in a doctor's office... It ended in JUNKIE TOWN!

Vaccinations leave a lasting impression in children that injecting is beneficial. Studies show that children who are vaccinated are 87% more likely to inject marijuana than those who are not.

Vaccinations... Don't lose your children to drugs.

Medical Cannabis: A Marketing Ploy for Legalisation?



?



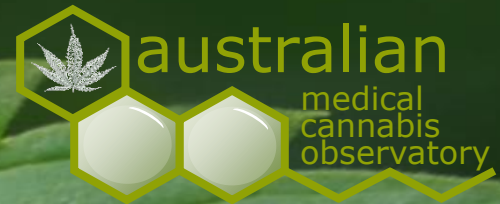
Medical Cannabis: A Marketing Ploy for Legalisation?

Health Based
Approach
to Drugs



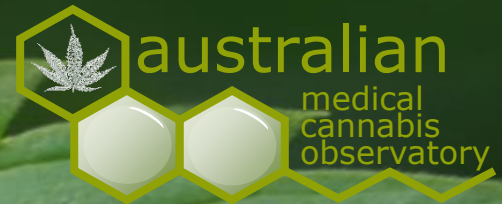
Can Medicinal Cannabis Meet 2 Criteria?

- Make your patient feel better?
- Benefits exceed the risks (by a wide margin)?



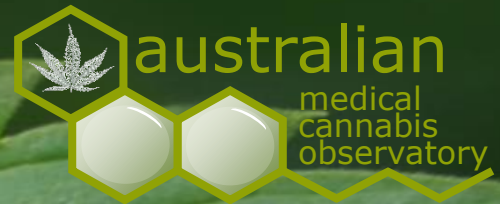
In Summary...

- A tipping point is close
- LOTS of vested interests- on both sides of the equation
- Medicinal cannabis can quite clearly be used safely
- ...while the science catches up



In Summary...

- There is actually quite a lot of evidence, and growing
- Far less dangerous than many alternatives
- (Of course you can dose botanical products!)
- Opposition is mostly economic, political





**HAVE
COURAGE
AND
BE
KIND**

