

We acknowledge the traditional custodians of the land on which we meet today and pay respect to Elders past, present and emerging.

We also extend that respect to other Aboriginal and/or Torres Strait Islanders who are joining us here today.




David R Horton, creator, © Aboriginal Studies Press, AIATSIS and Auslig/Sinclair, Knight, Merz, 1996.

View an interactive version of the AIATSIS map

www.abc.net.au/indigenous/map/

Header Artwork produced for Queensland Health by Gilimbaa



A Trip Through the Garden: Plant-based substances

Disclaimer notice

This map indicates only the general location of larger groupings of people, which may include smaller groups such as clans, dialects or individual languages in a group. Boundaries are not intended to be exact. The views expressed in this publication are those of the author and not those of the Australian Institute of Aboriginal and Torres Strait Islander Studies. For more detailed information about the groups of people in a particular region, contact the relevant land councils.

NOT SUITABLE FOR USE IN NATIVE TITLE
AND OTHER LAND CLAIMS

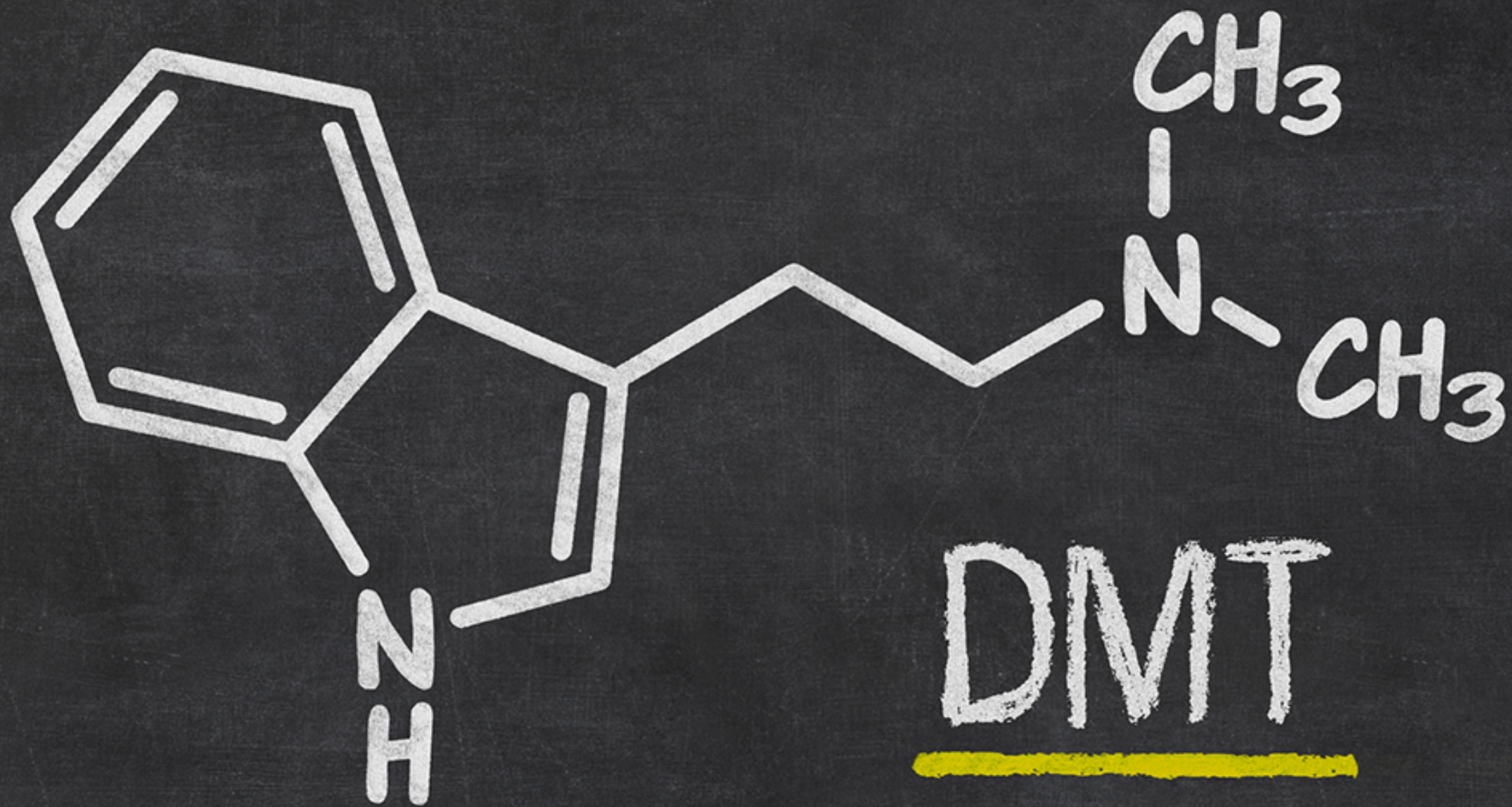


Acknowledgement of
Traditional Owners




Firstly, what is *Dovetail*?

Dovetail provides clinical advice and professional support to workers, services and communities across Queensland who engage with young people affected by alcohol and drug use



DMT


$C_{12}H_{16}N_2$

A large, dark metal pot is filled with a mixture of fresh green leaves and dried, fibrous brown roots. The leaves are vibrant green and appear to be from a shrub, with some showing signs of being eaten (holes). The roots are long, thin, and have a reddish-brown hue. The pot is set against a dark, textured background.

Ayahuasca: DMT + Harmaline (MAOI)





A close-up photograph of a Stiff leaf wattle (Acacia obstusifolia) branch. The branch is light brown and bears several long, cylindrical spikes of small, yellow, fluffy flowers. The leaves are long, narrow, and green, with some showing signs of being eaten. The background is a dense thicket of similar foliage.

Stiff leaf wattle
Acacia obstusifolia











2016 Queensland EDRS found:

- 23% Recent use of DMT
- 27% Lifetime use of DMT



2016 Queensland EDRS found:

- 0% Recent use of Ayahuasca
- 5% Lifetime use of Ayahuasca



Oral ingestion requires an MAOI:

- Ayahuasca vine (*Banisteriopsis caapi*)
- Syrian Rue Seed (*Peganum harmala*)
- Pharmaceutical MAOI (Moclobemide or similar)

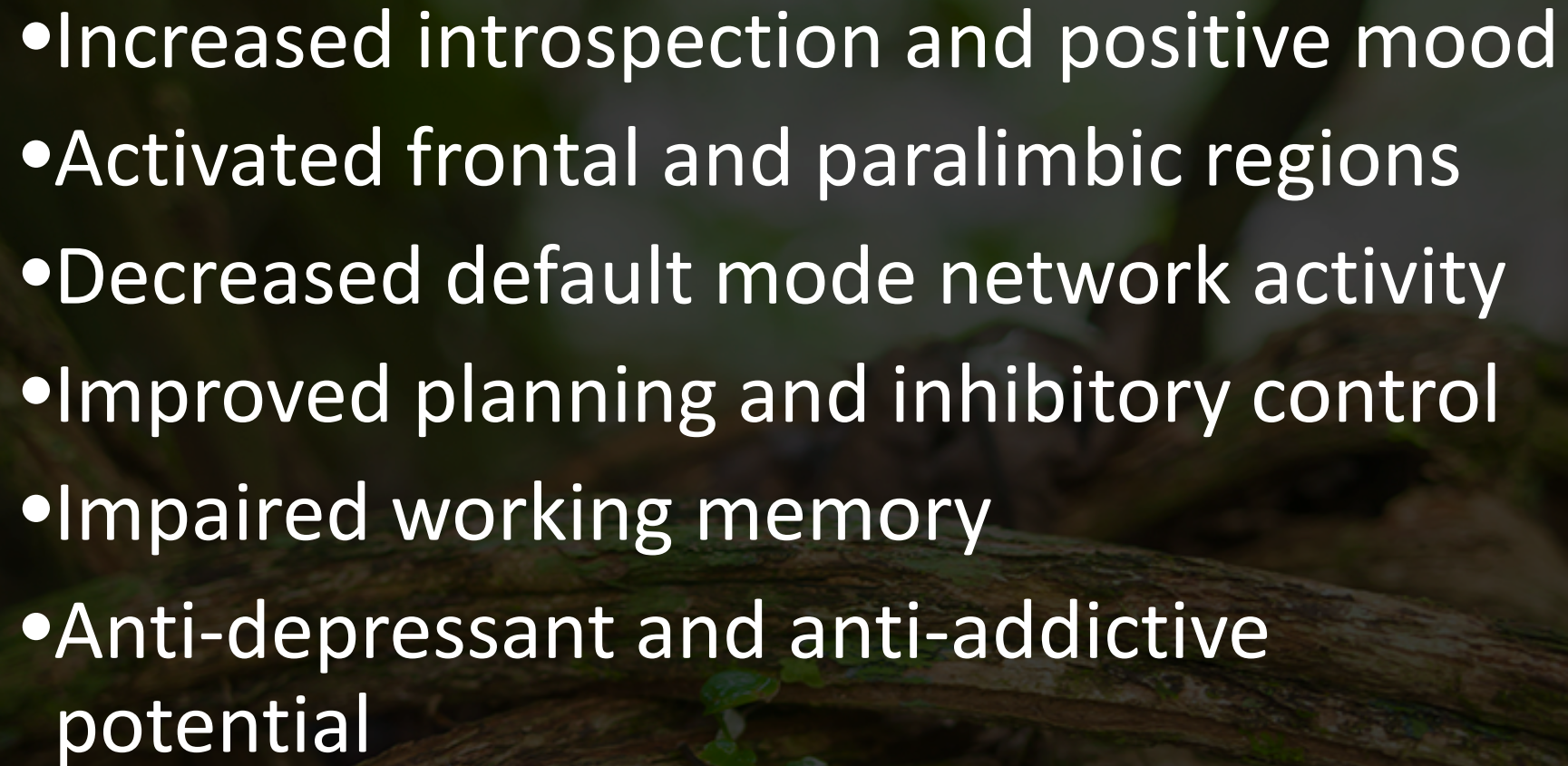


Ayahuasca lasts for 4 – 6 hours

DMT Smoked last for 10 – 15 minutes

Intense hallucinations

Minimal after effects

- 
- Increased introspection and positive mood
 - Activated frontal and paralimbic regions
 - Decreased default mode network activity
 - Improved planning and inhibitory control
 - Impaired working memory
 - Anti-depressant and anti-addictive potential



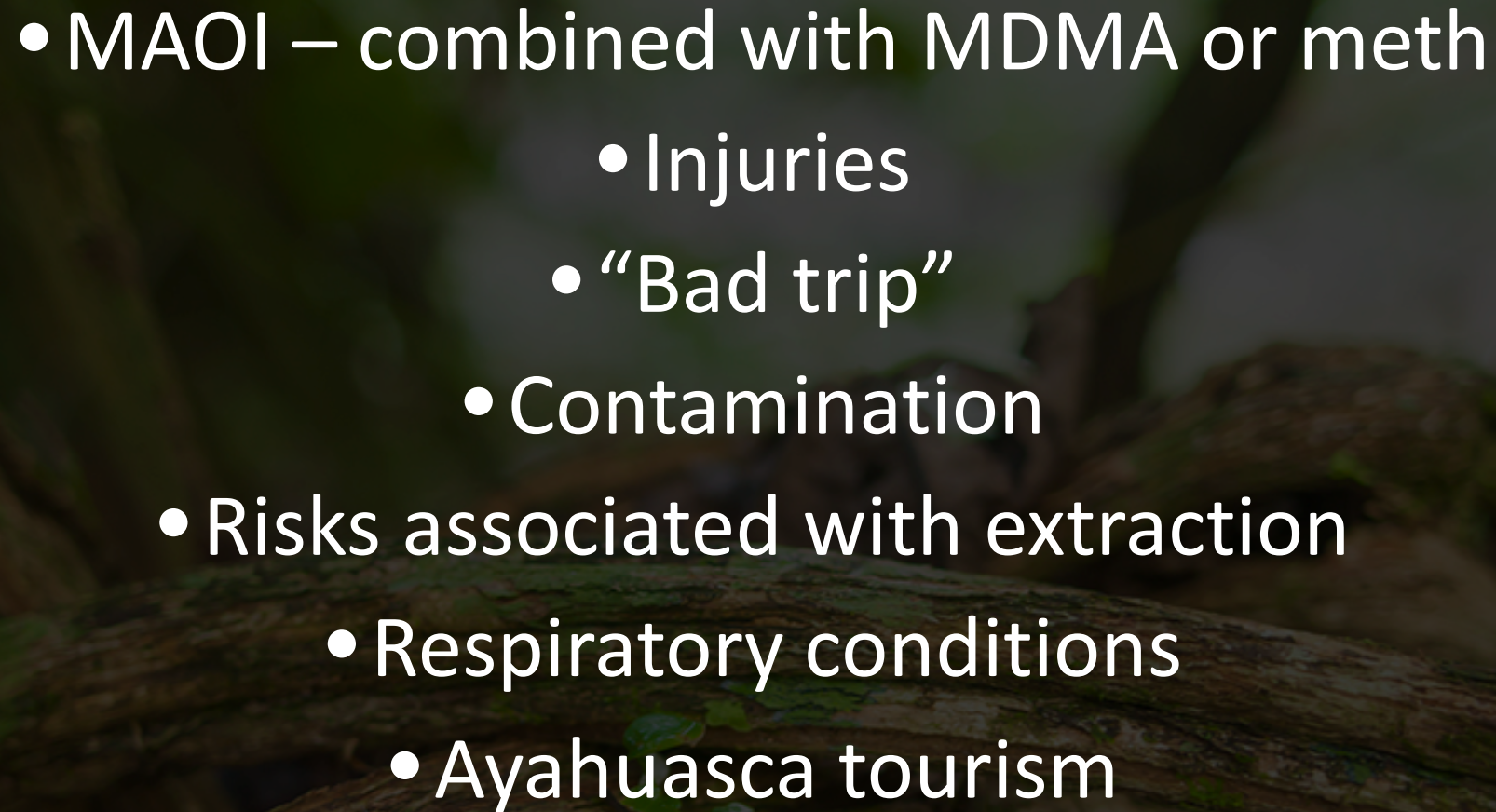
DMT and Psychosis Systematic Review

Ayahuasca: 3 case series, 2 case reports

DMT: 3 case reports

Most had family history

Overall, psychosis is rare

- 
- MAOI – combined with MDMA or meth
 - Injuries
 - “Bad trip”
 - Contamination
 - Risks associated with extraction
 - Respiratory conditions
 - Ayahuasca tourism

Ayahuasca: Grieving parents issue warning to backpackers after son's death on jungle drug retreat

Foreign Correspondent By [Hamish Macdonald](#)

Updated 14 Mar 2017, 6:36pm



VIDEO: [Matthew Dawson-Clarke's mother did not know he was dead for three days.](#) (ABC News)

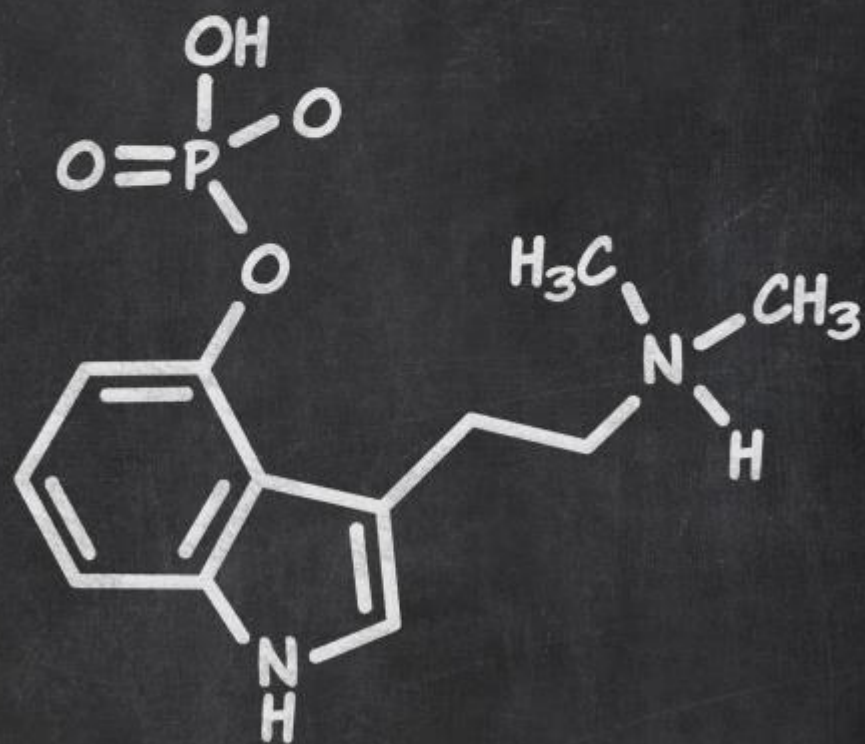
The family of a young traveller who died suddenly in the Amazon jungle has issued a warning to other tourists about the dangers of a traditional hallucinogen known as ayahuasca.


RELATED STORY: [Ayahuasca: The rise of the ancient hallucinogenic tea](#)

MAP: [Peru](#)

ABC Foreign Correspondent "It doesn't happen to people like me" March 13, 2017

Psilocybin





“Gold tops”
Psilocybe cubensis





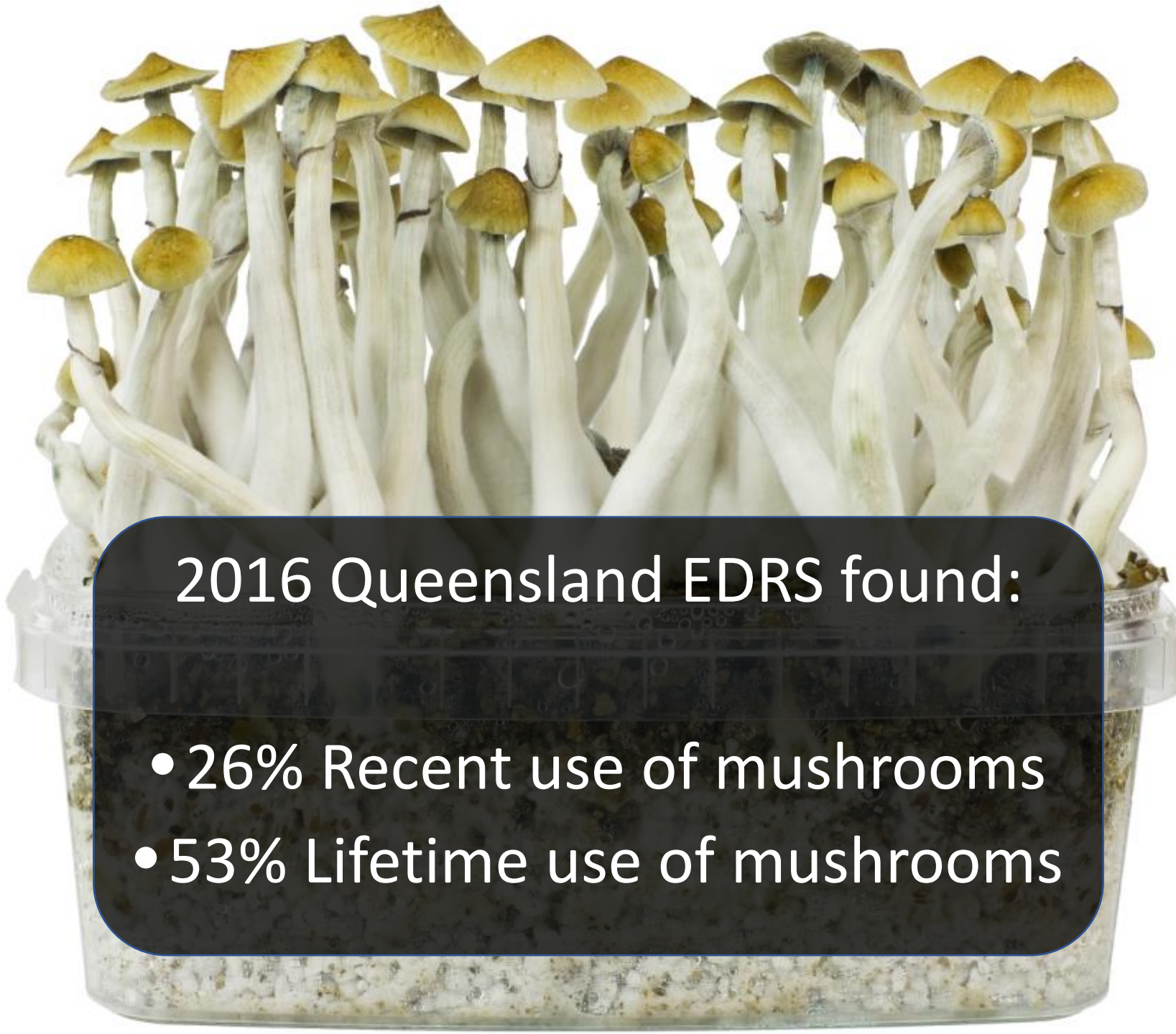




“Blue meanies”
Copelandia cyanescens







2016 Queensland EDRS found:

- 26% Recent use of mushrooms
- 53% Lifetime use of mushrooms







PillBag
P. cyaneusceus

☐ A.M.

☐ P.M.

☐ OTHER

www.thepillbag.com










Psilocybin / Psilocin last 4 – 6 hours

Some potential clinical uses

Appears to have low risk of harm compared to
other substances

- 
- Misidentification of wild mushrooms
 - Accidents and injuries
 - “Bad trip” reactions
 - Contamination




Mescaline

C₁₁H₁₇NO₃

Peyote cactus
Lophophora williamsii



A photograph of several tall, green, columnar San Pedro cacti (Trichocereus pachanoi) growing in a field. The cacti are covered in small, white, pointed spines. They are surrounded by dry, brown grass and other vegetation. In the background, a white building with a blue roof is visible through the trees.

San pedro cactus
Trichocereus pachanoi











2016 Queensland EDRS found:


- 1% Recent use of mescaline
- 7% Lifetime use of mescaline

The background of the slide features a warm, golden-yellow light source, possibly a sunset or sunrise, creating a soft glow. In the foreground, there are several green, five-petaled flowers, likely Mimulus lewisii, resting on a light-colored, textured surface. The flowers are in sharp focus, while the background is slightly blurred. A dark, rounded rectangular box with a blue border is centered on the slide, containing white text.

Mescaline lasts 8 – 12 hours

Some early research shows
potential clinical uses

Long term use in traditional context
appears low risk of harm

- 
- Accidents and injuries
 - “Bad trip” reactions
 - Mescaline tourism



Opium poppy
Papaver somniferum










Sometimes used as an adjunct to
other opioids

Significant overdose risk

Dependence can occur






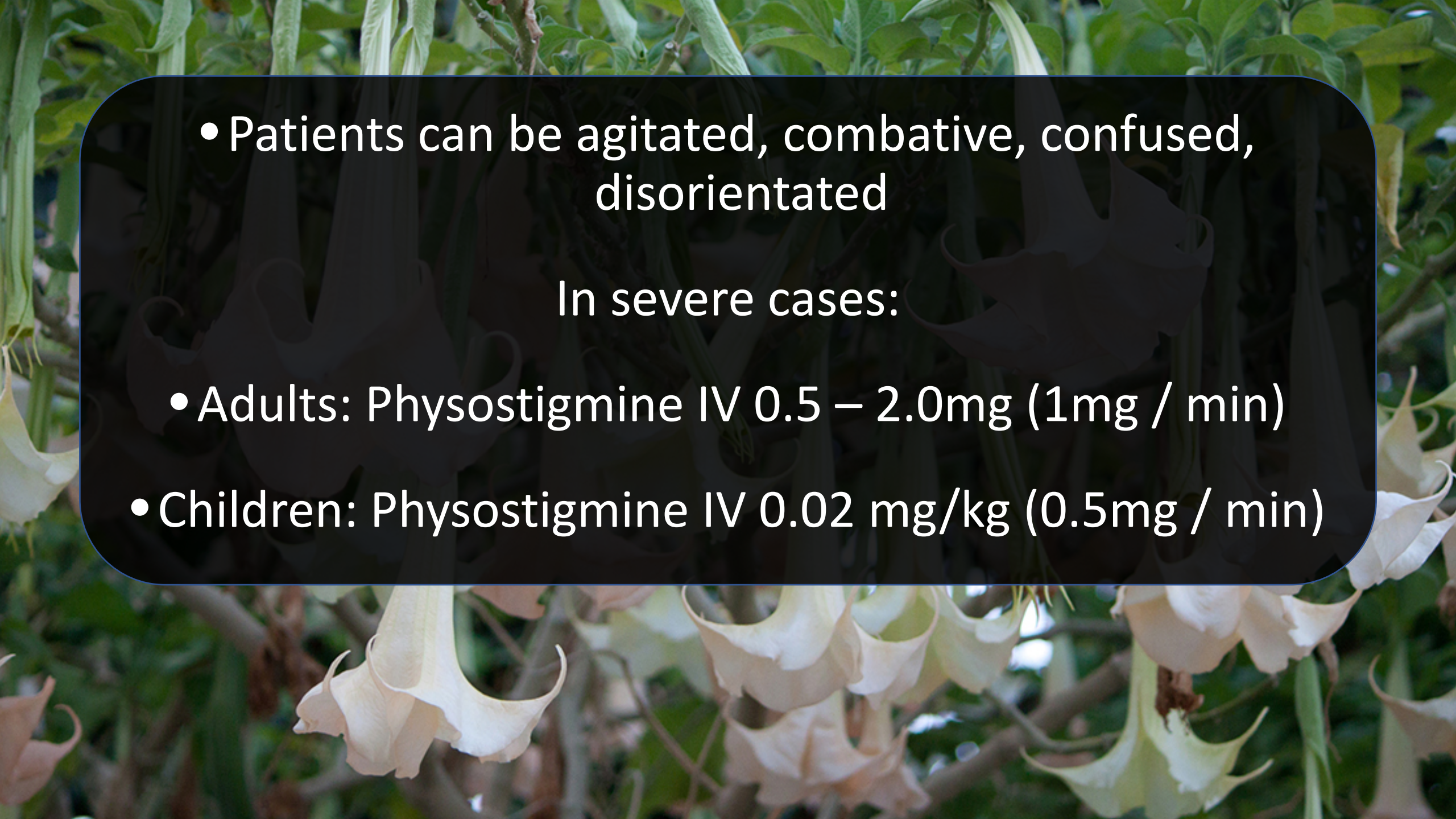
A close-up photograph of several white, trumpet-shaped flowers of the Angel trumpet plant (Datura stramonium). The flowers are hanging from a dark green branch, surrounded by large, green, serrated leaves. The background is a soft-focus view of more foliage and a bright sky. A dark, semi-transparent text box is overlaid in the upper right corner.

Angel trumpet
Datura stramonium



Angel trumpet
Brugmansia sp.

- 
- 33 patients over a ten year period
 - 100% Dilated pupils – duration 29 hours
 - 88% Delirium – duration 18 hours
 - 33% Tachycardia
 - No deaths
 - No seizures
 - 2 patients had accidental injuries
 - 19 required sedation (benzos)

- 
- Patients can be agitated, combative, confused, disorientated

In severe cases:

- Adults: Physostigmine IV 0.5 – 2.0mg (1mg / min)
- Children: Physostigmine IV 0.02 mg/kg (0.5mg / min)



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Thank You!

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Alcohol and other drug training and
workforce development Queensland

Thanks for joining us today!

Please fill out a short evaluation

<https://www.surveymonkey.com/r/XNTSY66>

Join us next week for

***A healthy lifestyle approach to co-existing mental health and
substance problems***

Professor Amanda Baker.