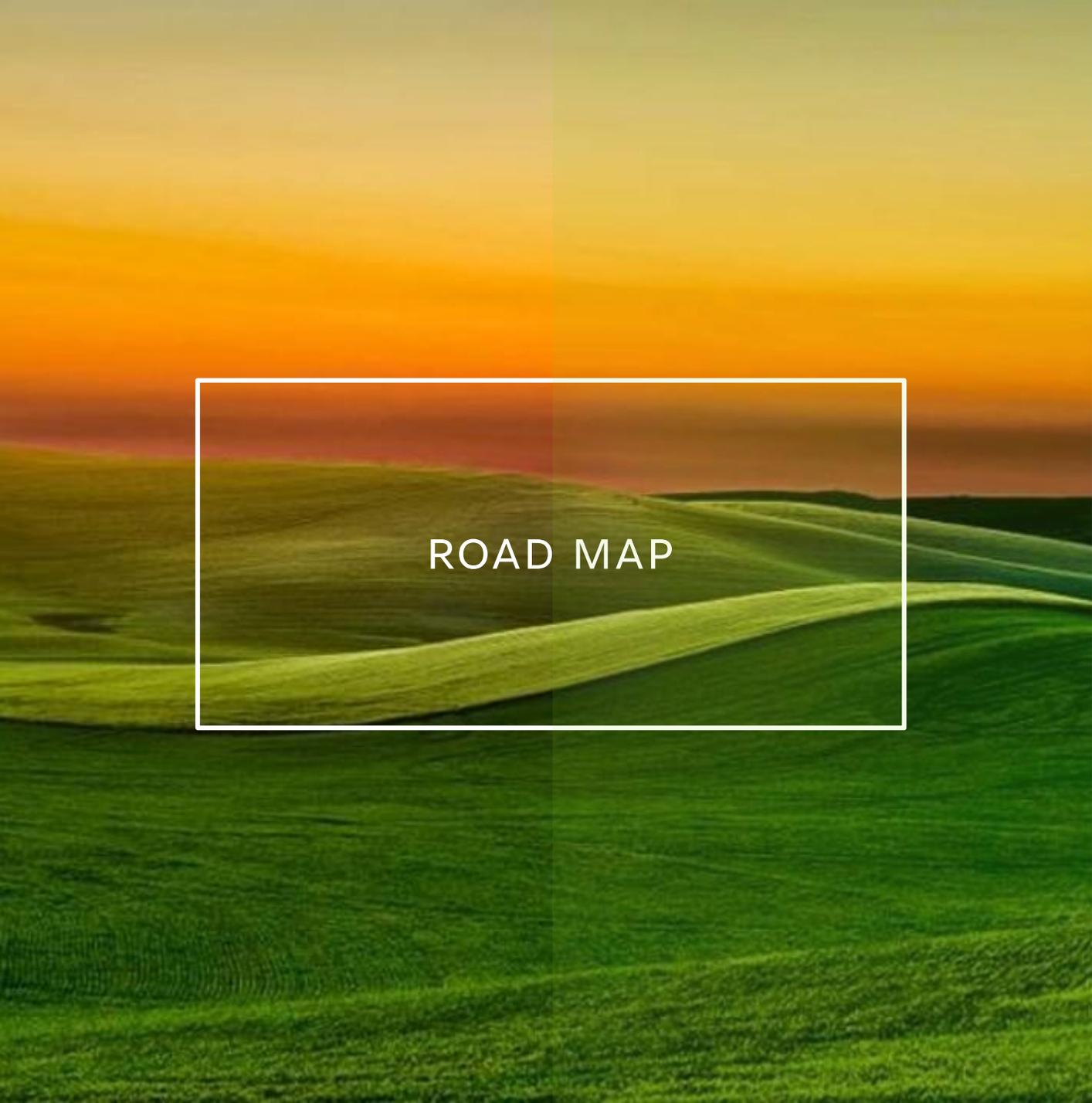


The background of the entire image is a blurred, close-up view of green grass, with individual blades creating a sense of depth and texture. The colors range from a vibrant lime green to a darker, muted olive green.

TOXIC PLANTS OF ARIZONA

TYLER HOELSCHER



ROAD MAP

Overview

General Workup

Specific Plants

Treatment



DISCLOSURES

I have no financial relationships
to disclose



CASE

6 y/o M presents CC AMS

Reportedly consumed an unknown plant

Rapidly became hypotensive, bradycardic

IV access obtained, started on fluids

VS

HR 32

SpO2 91%

BP 89/62

Ht 3.8m

RR 8

Wt 909kg



CASE

6 y/o M presents CC AMS

Reportedly consumed an unknown plant

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IV access obtained, started on fluids

VS

HR 32

SpO2 91%

BP 89/62

Ht 3.8m

RR 8

Wt 909kg



CASE

Watoto, 6y/o male

Denver 20 y/o female

Fed plant clippings from park

Found the following leaves below:





PLANT POISONING

Kingdom – Plantae

Immobile, limited ability to deter herbivores

Thus - Poison

Approx 5% of PCC calls, mostly children, exploratory



PLANT POISONING



GENERAL PRINCIPLES

Identification

- Sample
- Pictures

Time of ingestion

Part of plant ingested

Intentional? Exploratory?

Initial symptoms





GENERAL PRINCIPLES

6 yo F, took a bite of a house plant

Crying, complaining of oral pain,
difficulty swallowing

Normal VS

Erythema noted in oral mucosa
No stridor, clear lungs

ARIZONA
Poison and Drug
Information Center



1-520-626-6016



ARIZONA'S TOXIC PLANTS

JIMSON WEED





JIMSON WEED

Datura Stramonium

***Solanaceae* - Nightshade family**

Atropine, Hyoscyamine, Scopolamine

Exposure: recreational

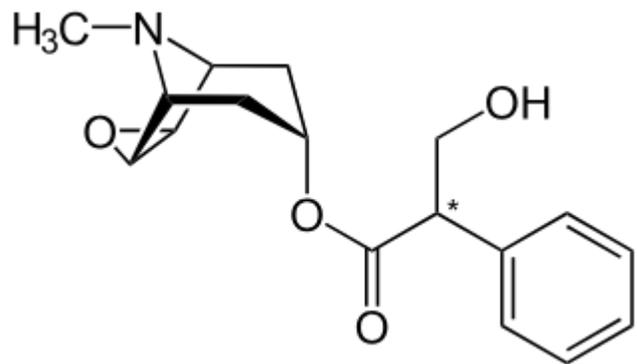
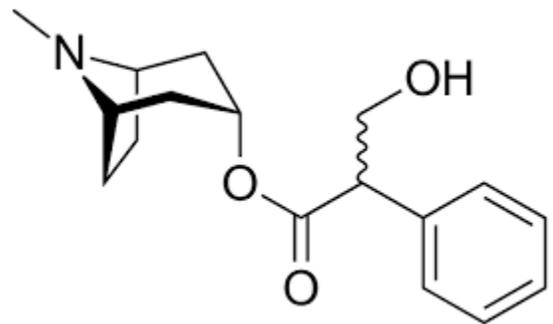








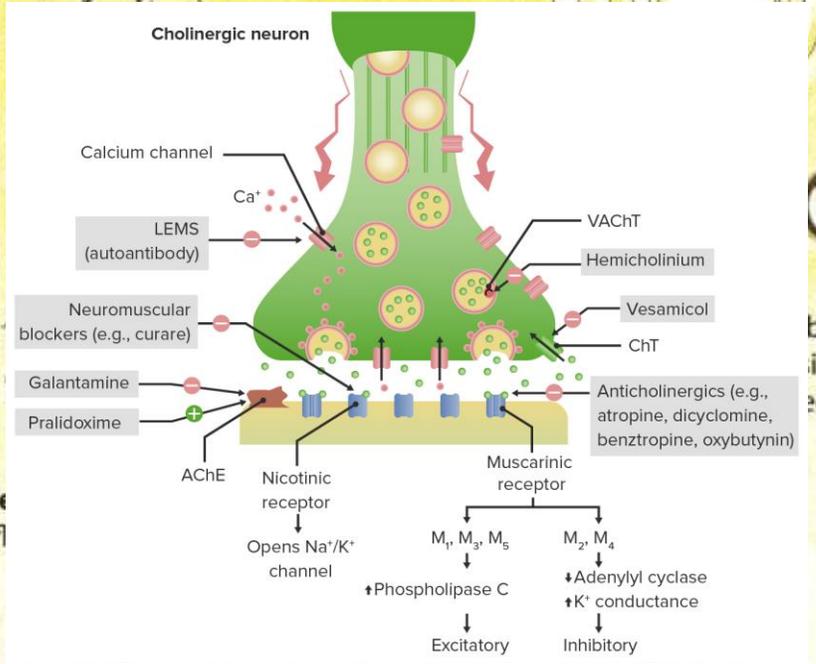
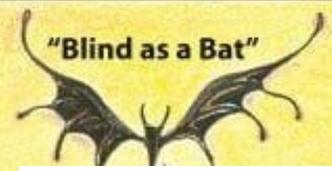
JIMSON WEED



Anticholinergic Toxidrome

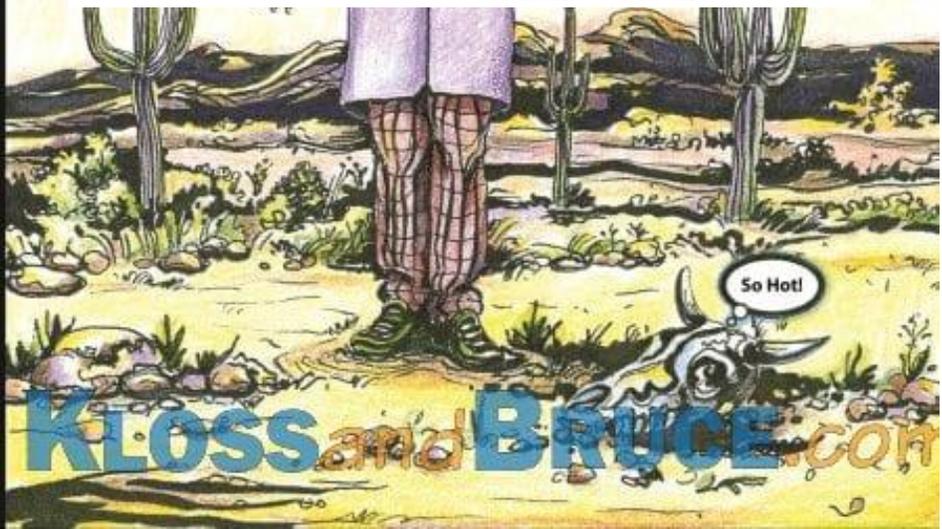
"HOT as a Desert"
hyperthermia

"Blind as a Bat"



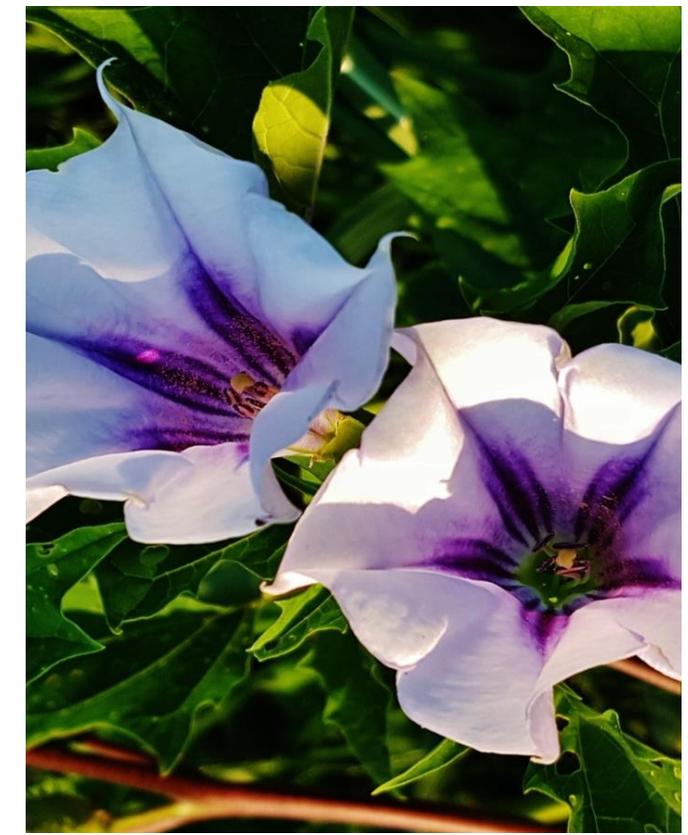
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JIMSON WEED

- Antimuscarinic toxidrome
- Smooth muscle paralysis
- Tachycardia
- Hyperthermia
- Seizures
- Delirium
- Carphologia





MANAGEMENT

Airway

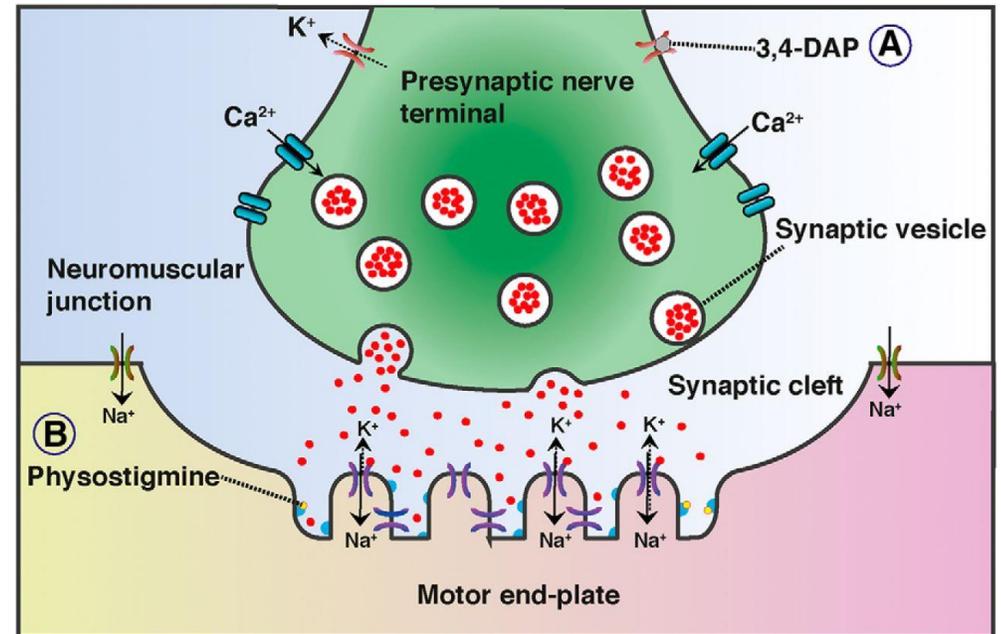
Sedation

Seizure





ANTIDOTE - PHYSOSTIGMINE



- | | |
|--|----------------------|
| Cholinergic receptor | Acetylcholine |
| Voltage-gated Na ⁺ channel | Physostigmine |
| Presynaptic K ⁺ channel | Acetylcholinesterase |
| Voltage-gated Ca ²⁺ channel | 3,4-DAP |

CANNABIS



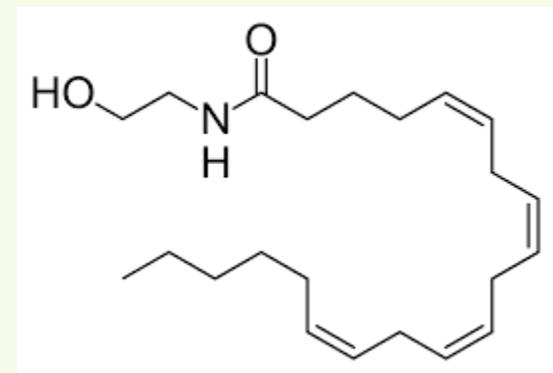
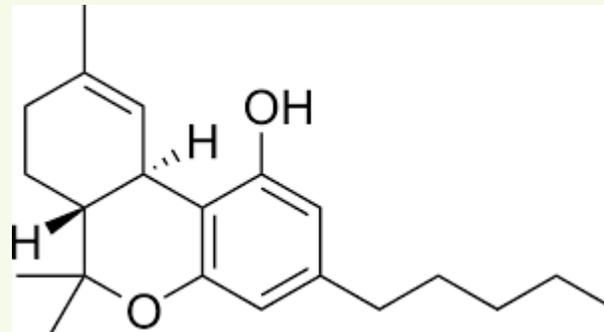


CANNABIS

Delta 9 Tetrahydrocannabinol

Cannabidiol

Mimics endocannabinoids





THE DRUG - ALSO CANNABIS



Some of the products cited in FDA-FTC cease and desist letters to companies selling THC products copying the look of snacks popular with children

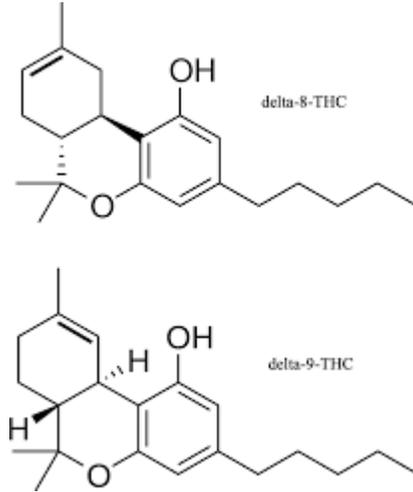
THE OTHER DRUG: DELTA 8 THC

Semisynthetic cannabinoid

Hemp-derived

Little research

Unregulated



CANNABIS - TOXICITY

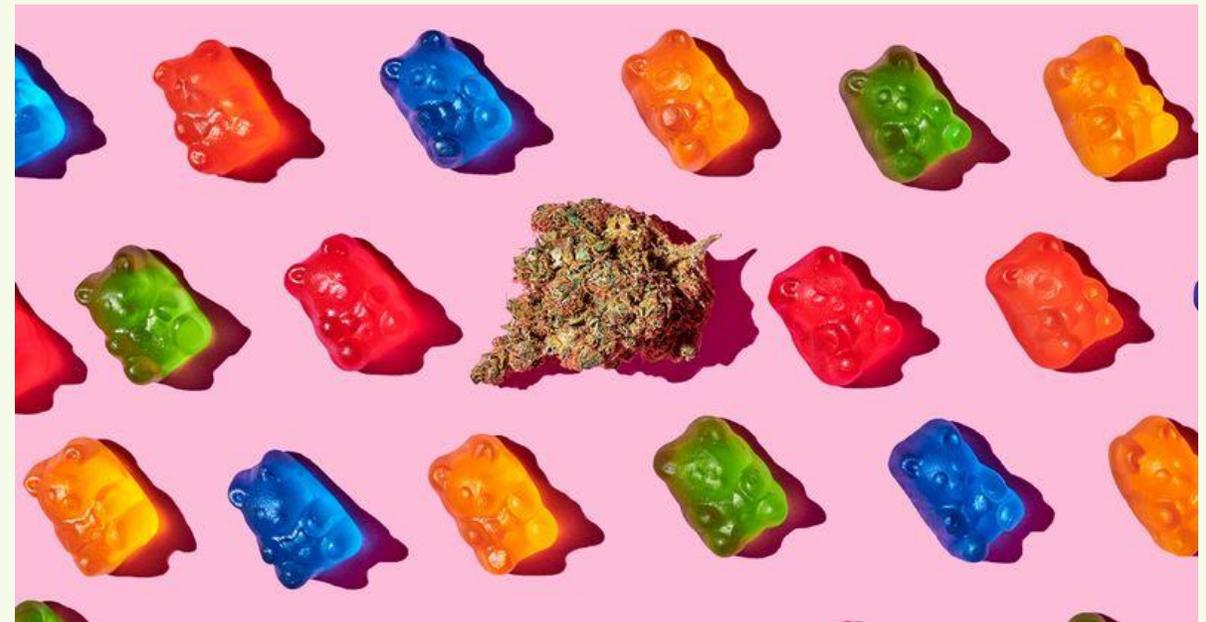
Euphoria

Psychosis

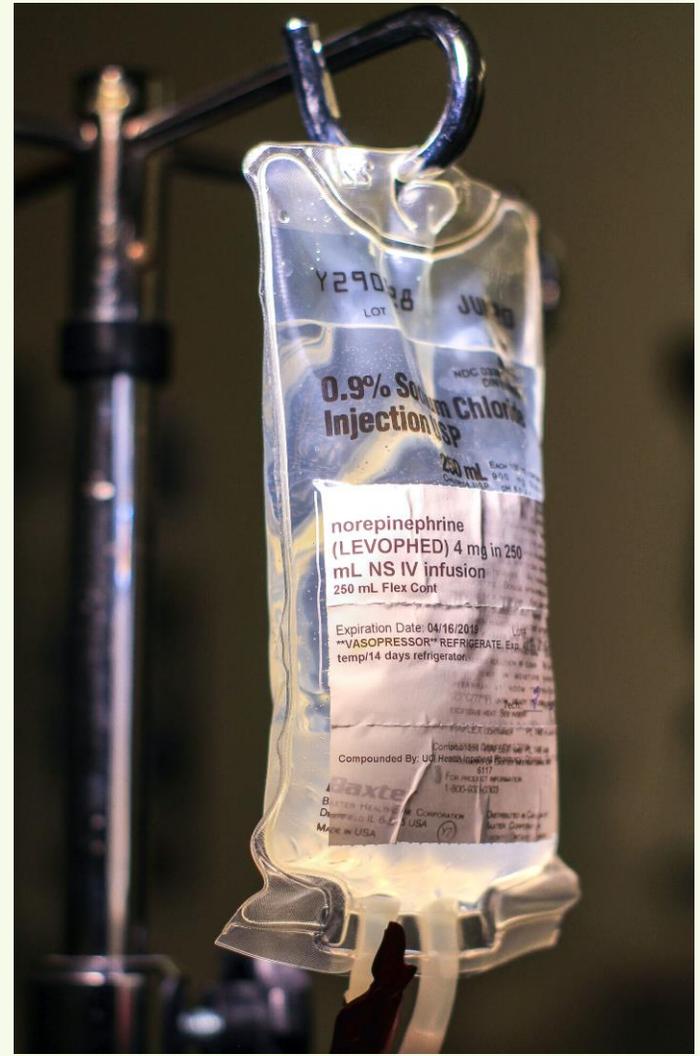
Coma

Dysrhythmia

Hypotension



CANNABIS - MANAGEMENT



OLEANDER





OLEANDER

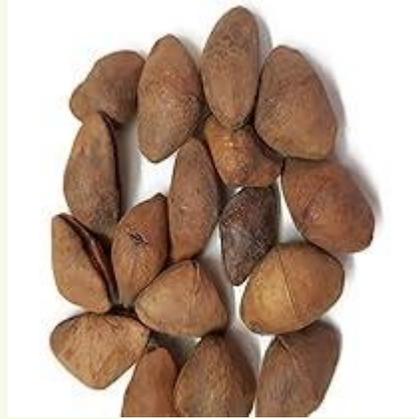
Nerium Oleander

Dogbane family, *Apocynaceae*

Perennial Shrub

Origin?

OLEANDER

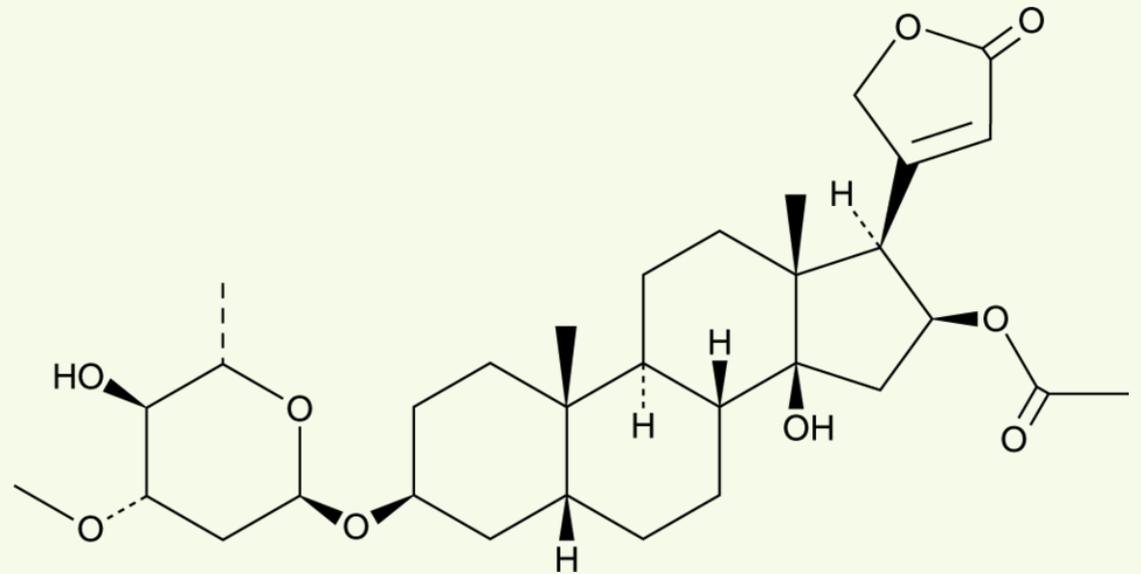




OLEANDER

Oleandrin, Folineriin, Digitoxigenin

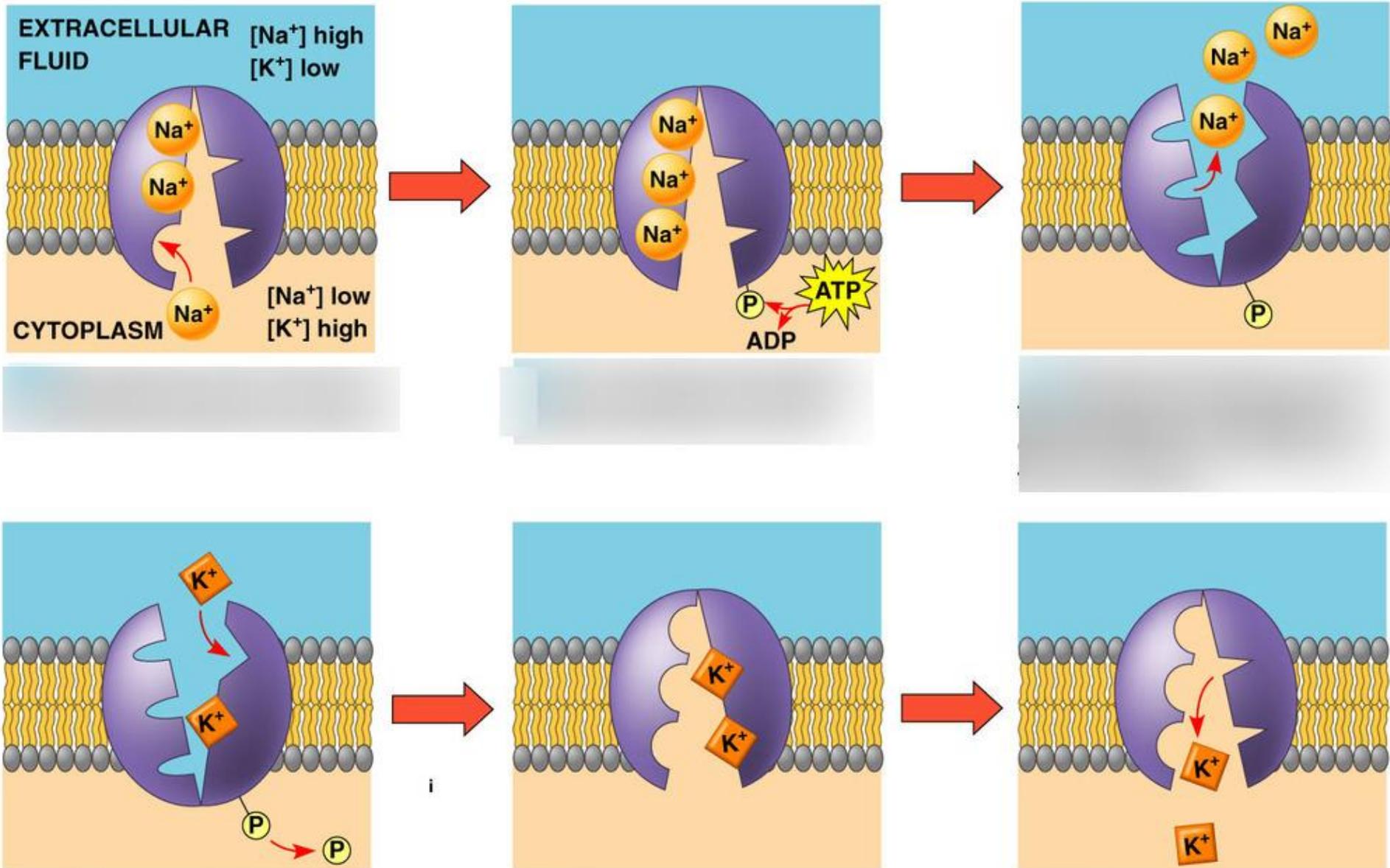
Cardiac Glycoside



CARDIAC GLYCOSIDES



CARDIAC GLYCOSIDES





OLEANDER - EXPOSURE

Suicidal

Explorational

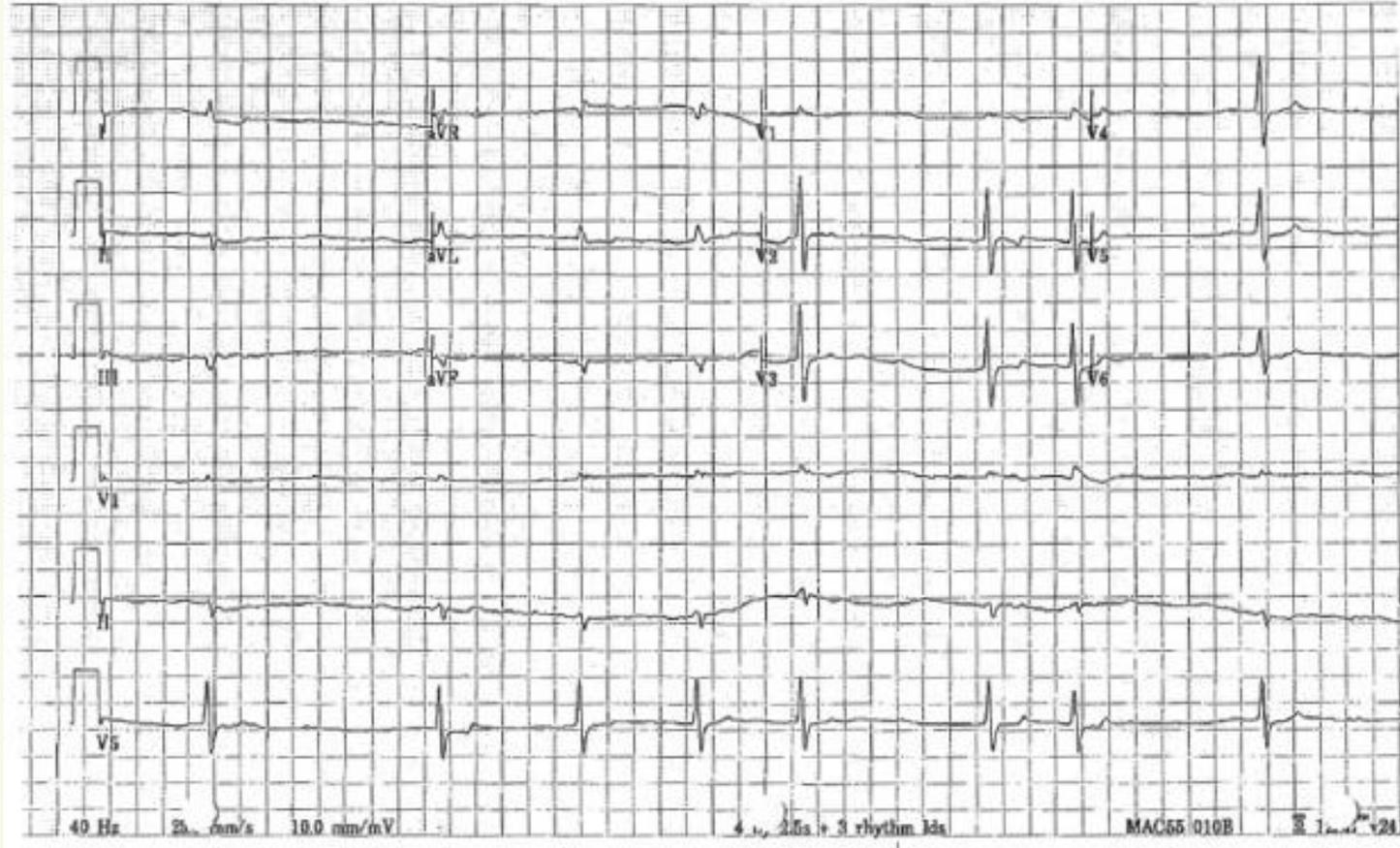
Therapeutic Misadventure

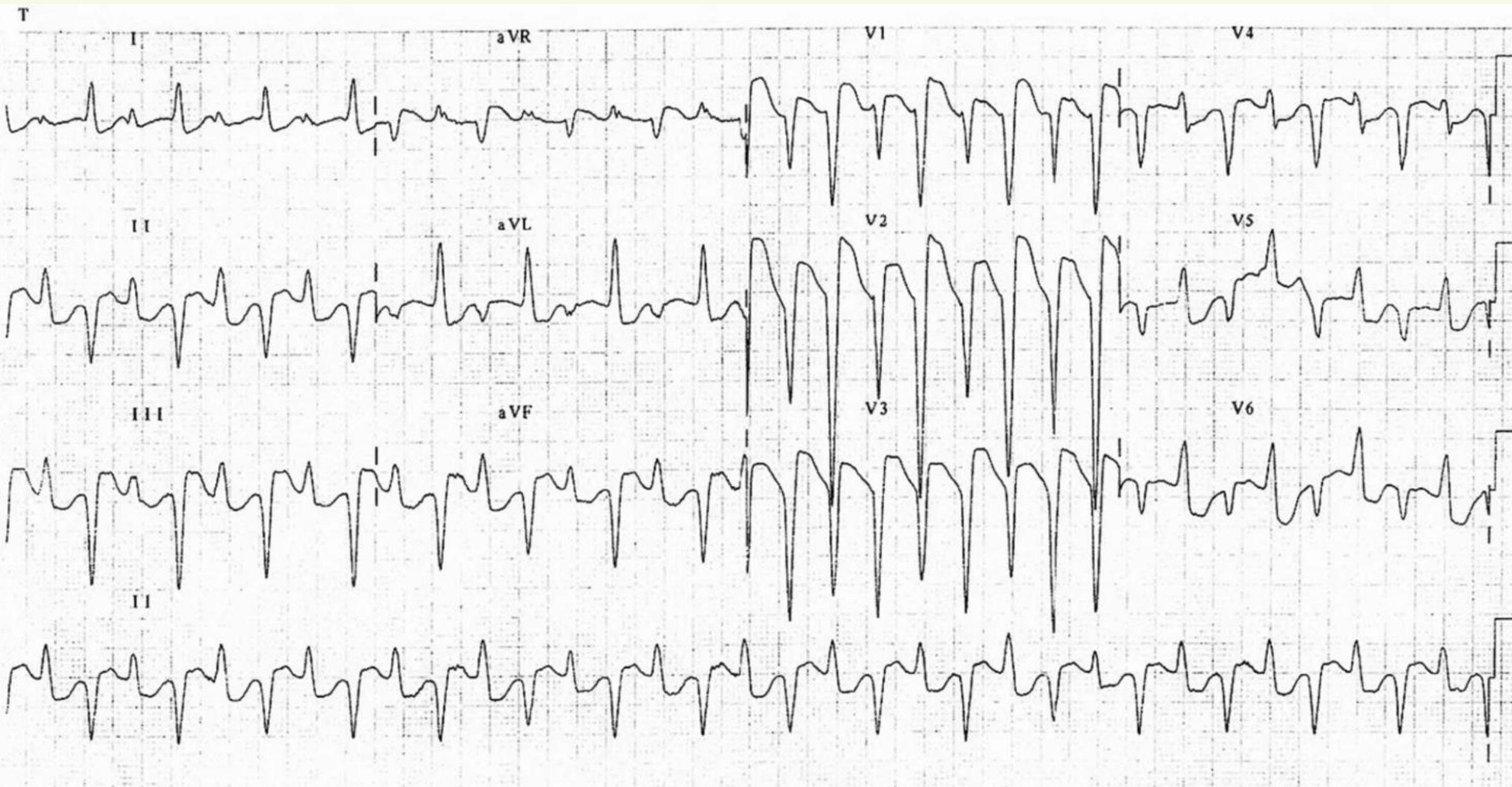


Female Unknown

Vent. rate 53 bpm
PR interval * ms
QRS duration 114 ms
QT/QTc 358/335 ms
P-R-T axes * -48 141

Atrial fibrillation with slow ventricular response
Left axis deviation
Low voltage QRS
Right bundle branch block
Abnormal ECG







Herbal creations®

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1. Anticancer Potential

2. Cardiovascular Health

3. Anti-inflammatory

4. Antioxidant Properties



NERIUM OLEANDER EXTRACTS

VIBRANT BLOOMS

(Herbal Extracts)

Nerium oleander, a versatile plant known for its vibrant blooms, has garnered attention beyond its ornamental value due to its potential health benefits. As a trusted supplier in the United States, we pride ourselves on delivering high-quality Nerium oleander extracts to meet diverse industry needs. From skincare formulations to medicinal applications, our extracts offer a natural solution backed by science and innovation.

 Enquiry Now

Scientific Name: Nerium oleander

Brand: Herbal Creations

Form: Dried

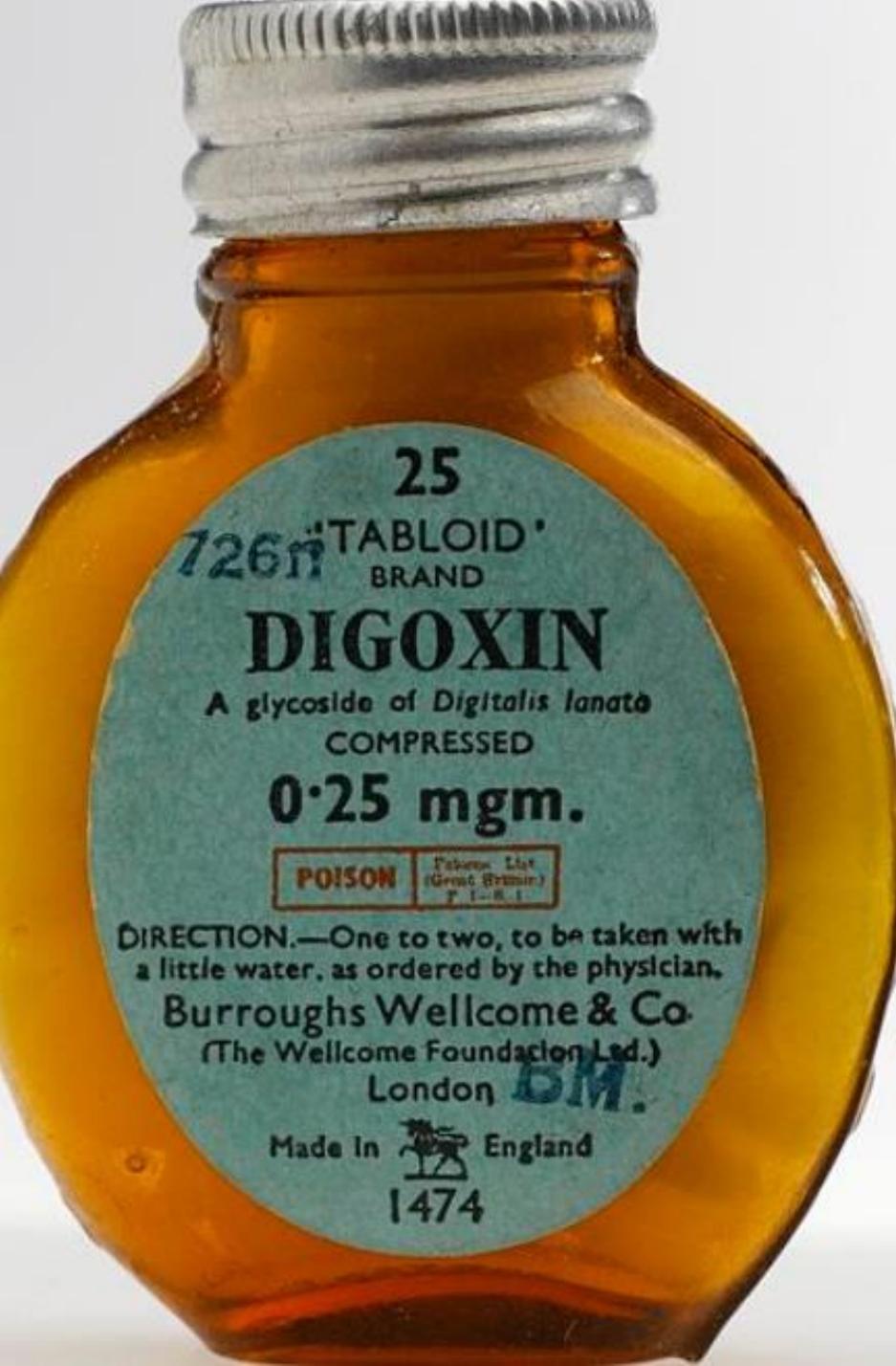
Shelf Life: 3 Year

Stock **Available in USA**

Address Unit-F03, 1001 Doubleday Avenue,
Ontario-91761, California

USA West Coast sugam@herbal-creations.com

USA East Coast shashank@herbal-creations.com



THE DRUG: DIGOXIN

Essentially identical MOA

Chronic

Explorational

Intentional





OLEANDER - PRESENTATION

GI upset

Hypotension

Bradycardia

Visual changes

Hyperkalemia



OLEANDER - PREHOSPITAL CARE

Diagnosis:

Salad
Leaf extract
Smoothie
Tea
Nuts

EKG



OLEANDER - PREHOSPITAL CARE



Fluids

Atropine

Pressors

Antiarrhythmic?

Cardioversion/defibrillation

Pacing

DEATH CAMAS





**Death
Camas**

**Wild
Onion**

DEATH CAMAS

**Toxicoscordion (fm Zigadenus)
Venenosum**

Zygacine

Foraging





DEATH CAMAS

Blue Camas - Traditional food

Foraging mistakes

Foreign foragers – wild onion





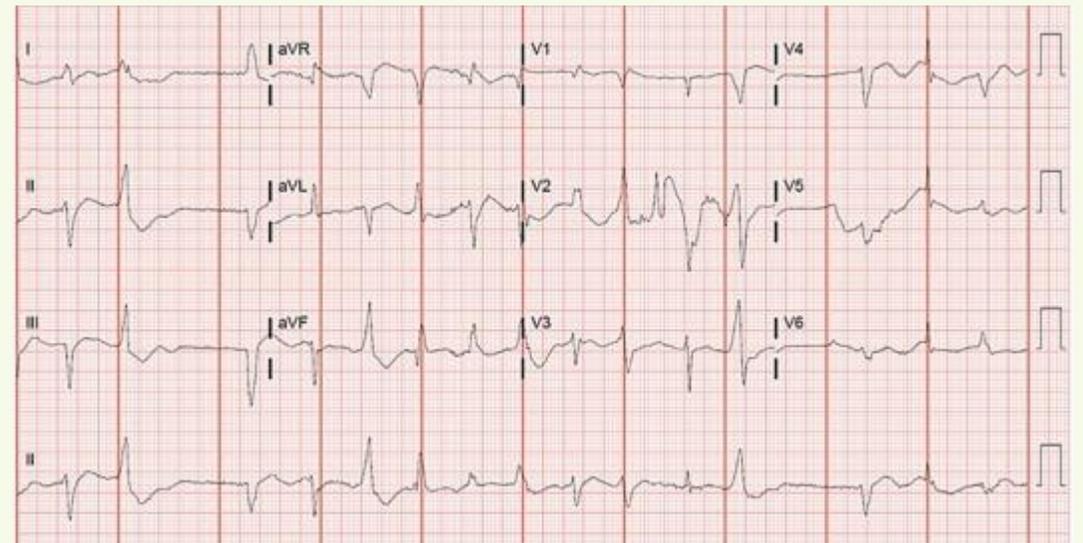
DEATH CAMAS - PRESENTATION

Vomiting

Bradycardia

Hypotension

Dysrhythmias



DEATH CAMAS - MANAGEMENT

Fluids

Atropine

Epinephrine

Antidysrhythmics

Cardioversion





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