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KNOW THE ISSUE

LEGALIZATION

IMPAIRMENT
MARIJUANA MAY BE MEDICINE

[Insert Shocked Face Here]
Growing Hope: The Fight for Medical Marijuana for Epileptic Kids

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(RBNNEWS.com) - January 22nd 2015 was a brisk, cold day. All the trees in Richmond, Virginia were bare from a harsh winter. As the chill blew up the hill in the city's historic Shockoe Slip district, several families began to emerge from a hotel in the shadow of the State Capitol.

Lisa Smith was there with her 14-year-old daughter, Hailey. Both she and Patrick Collins were there too, accompanied by their 15-year-old daughter Jennifer. Later, they would be joined by Terese Butler, her daughter Ashley, and Teresa's 22-year-old son, Tommy.

Hailey, Jennifer and Tommy are desperately ill with extreme forms of epilepsy. They have illnesses so insidious they have stymied a virtual army of doctors and specialists. But these families believe that oils made from a cannabis plant might help their children, where they say all other anti-epilepsy drugs have failed.
**Psychoactive**: Delta-9-tetrahydrocannabinol (THC)

**Inactive**: Carboxy-THC

Plant material from the cannabis plant; over 100 compounds (cannabinoids) and more than 500 chemicals in addition to THC

THC is found in the resin produced by the leaves and buds primarily of the female cannabis plant.
Mental v. Physical Impairment

MARIJUANA impairment (generally) more of a primarily mental impairment.

ALCOHOL AND OTHER DRUGS (generally) include more obvious physical impairment.
HOW DOES MARIJUANA WORK IN THE BODY?

Marijuana is ingested

THC binds to the fat receptors in the body/brain

Impairment peaks quickly and then seems to level out

THC crosses the “blood/brain barrier” quickly
OH YEAHHH!
### ESTIMATED Duration of Effects

<table>
<thead>
<tr>
<th>Method of Ingestion</th>
<th>Peak Duration</th>
<th>Duration</th>
<th>Dissipates</th>
<th>Residual Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoked</td>
<td>20-30 minutes</td>
<td>2-3 hours</td>
<td>3-6 hours</td>
<td>Up to 24 hours*</td>
</tr>
</tbody>
</table>

The **method of ingestion** (e.g. smoked versus consumed in an edible) will affect the peak and duration of effects (and generally result in a “lower, longer” high).

* New studies from NIH showing much longer residual effects for chronic users
Does this mean THC is medicine?
Figure 1. Pharmacological actions of non-psychotropic cannabinoids (with the indication of the proposed mechanisms of action).

Abbreviations: Δ⁹-THC, Δ⁹-tetrahydrocannabinol; Δ⁶-THC, Δ⁶-tetrahydrocannabinol; CBN, cannabinol; CBD, cannabidiol; Δ⁹-THCV, Δ⁹-tetrahydrocannabinolic acid; CBDA, cannabidiolic acid; TRPV1, transient receptor potential vanilloid type 1; PPARγ, peroxisome proliferator-activated receptor γ; ROS, reactive oxygen species; 5-HT₁A, 5-hydroxytryptamine receptor subtype 1A; FAAH, fatty acid amide hydrolase. (+), direct or indirect activation; ↑, increase; ↓, decrease.
WHAT DOES MEDICAL MARIJUANA LOOK LIKE?
WHAT'S HAPPENING HERE?
MINNESOTA MEDICAL MJ LAW
ENACTED 2014, REVISED 2015

SET MEDICAL CONDITIONS

LIQUID OR OIL; PILLS; OR VAPORIZED LIQUID OR OIL
(no smoked MJ; edibles OK?)

STATE REGISTRY
Current Push to Include “Intractable Pain”
# Medical Marijuana in Colorado

<table>
<thead>
<tr>
<th></th>
<th>2001 – 2008 total</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Marijuana Registrations</td>
<td>4,819</td>
<td>41,039</td>
</tr>
<tr>
<td>Marijuana Dispensaries</td>
<td>Zero</td>
<td>Over 900 (by 2010)</td>
</tr>
</tbody>
</table>
### MINNESOTA MEDICAL CANNABIS REGISTRY

<table>
<thead>
<tr>
<th>HEALTH CARE PRACTITIONERS</th>
<th>PATIENTS</th>
<th>CAREGIVERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>426</td>
<td>642</td>
<td>62</td>
</tr>
</tbody>
</table>

*Office of Medical Cannabis, as of October 22, 2015*
STARTS SMALL: home growing for medical...then expanded medical...then recreational/large scale
TAXATION
PRODUCT REGULATION
RULEMAKING AND ENFORCEMENT AGENCIES
ADVERTISING
COMMON ISSUES SURROUNDING INCREASED AVAILABILITY AND ACCESS TO MARIJUANA
NOT YOUR GRANDMA’S WEED
**Estimated potency is of plant-based marijuana (not concentrates)**
Today’s MJ concentrates are routinely testing with anywhere from 30% THC up to 98% THC!
MARIJUANA COMES IN MANY FORMS
MARIJUANA IS OFTEN COMBINED WITH OTHER DRUGS
ADDITIVE EFFECT

A little plus a little = a lot!

Studies support that even chronic users will not build tolerance.
PER SE LEVELS: Double-edged Sword

- 5 nanograms per se ≠ impairment
- Limited studies
- Too many factors
  - Potency
  - Dosage
  - Frequency of Use
  - Combination with other items
YOUR TRIAL BEGINS HERE...
BASICS OF DETECTION AND ENFORCEMENT
ENFORCEMENT

1. Train law enforcement to recognize signs and symptoms of marijuana impairment

2. Work with prosecutors and judges to educate about dangers of marijuana impairment

3. Overcome lack of funding for enforcement efforts & lack of support for efforts
“I Drive Safer High!”

PER SE LIMIT NOW 5 NG IN WASHINGTON
Users experience the height of the drug’s effects AFTER the active compound (THC) has faded from the blood.

The THC is hanging out in the user’s brain causing mental impairment for hours after it has lowered below the 5 ng in the blood. (The only compound potentially lasting for “days” is the inactive metabolite…carboxy-THC)
SIGN OF USE

ODOR

Fresh or Burnt?

LEGAL AMOUNT

BONGS, JOINTS, BAGGIES

EDIBLES
USE YOUR WORDS

Try your best to get the user talking about what they smoke/use...

Ask about strains, dabbing, call it medicine

If you sound knowledgeable and less judgmental, you just might get some great information
MARIJUANA’S MANY FORMS
- Euphoria
- Relaxed Inhibitions
- Disorientation
- Altered time & distance perception
- Lack of concentration
- Impaired memory & comprehension
- Jumbled thought formation
- Drowsiness
- Mood changes, including panic & paranoia
- Heightened senses
- **BODY TREMORS**
  - Especially quads, glutes and abs

- **EYELID TREMORS**
  - Modified Romberg Balance or anytime eyes are closed

- **REDDENED CONJUNCTIVA**
  - Whites of the eyes turn a pinkish color

- **GVM in teeth or green/white coating on tongue**

- **DILATED PUPILS**
Prepare Law Enforcement for the Possibility of Hash Oil Labs
EDUCATE
ENCOURAGE
ENGAGE