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#### Organization of American States

P. 202.458.3000

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FIFTY-SIXTH REGULAR SESSION November 19 - 21, 2014 Guatemala

#### INTER-AMERICAN DRUG ABUSE CONTROL COMMISSION CICAD

Secretariat for Multidimensional Security

OEA/Ser.L/XIV.2.56 CICAD/doc.2140/14 14 November 2014 Original: Español

CANNABIS MEDICAL USE RAUL MARTIN DEL CAMPO SANCHEZ CENADIC, MEXICO







# CANNABIS MEDICAL USE DOES IT HAS SCIENTIFIC SUPPORT?



Inter-American Drug Abuse Control Commission MASTER RAÚL MARTÍN DEL CAMPO SÁNCHEZ National Center for Prevention and Addiction Control NATIONAL COUNCIL AGAINST ADDICTIONS Nov 20







# Background

To answer the question it is necessary to do so based on evidence, therefore, **a systematic search for articles** in major refereed journals was conducted.





## SCIENTIFIC MATERIAL REVIEWED

•Systematic Review of Index Medicus Journal (monthly guide to articles of **5000** selected journals).



•403 Scientific articles were obtained by applying the assessment and synthesis methodology (combined analysis).





\* Source: Douglas K. Owens. Medical Decision Making 2002;112:S3-S10





# Background

# To discuss evidence is necessary to do so based on clinical trials, controlled, randomized and double-blind research.









#### **Types of studies**















## Problematic findings from the studies reviewed

- 1.- The **randomisation of the sample** and neither **the maneuver blinding** were respected on a third of the studies.
- 2.- Study population or demographic and clinics variables are not described.

 Nausea and vomiting secondary to surgery
 Spasticity by various causes
 Acute and Chronic
 Pain by Multiple Causes
 Secondary Acute Pain Dolor for Surgical Intervention Bladder Dysfunction
Chronic Obstructive Pulmonary Disease
Alzheimer Disease
Generalized Anxiety Disorder
Huntington Disease
Epilepsy Intraocular Pressure and Glaucoma
Altered Night Vision

asthma
Chronic Paranoid
Schizophrenia
Sleep Disorders





## Findings from the studies reviewed

The majority of studies reported only consist in **stories or anecdotes** about the use of cannabinoids, smoked *cannabis* or ingested cannabinoids, which means **there's no control group to compare effectiveness** against other drugs with proven effectiveness

- ✓ Pruritus
- ✓ Night sweats
- ✓ tinnitus
- ✓ Night Vision Impaired
- ✓Adult attention deficit hyperactivity disorder
- $\checkmark$  Nausea and vomiting secondary to Hepatitis C Treatment
- $\checkmark$  Nausea and vomiting secondary to metastasis
- $\checkmark$  Nausea and vomiting secondary to HIV / AIDS
- ✓ Isaac's syndrome







### Findings from the studies reviewed

One third of studies reviewed that did **employed drugs cannabinoids** were held with:

**Marinol** (*Dronabinol* « **DBN** » tablets 2.5 mg)

**Sativex** (oral spray *tetrahydrocannabinol* « **THC** » 2.7mg + Cannabidiol « **CBD** » 2.5mg per shot)

**Cesamet** (*Nabilone* « **NB** » tablets 1 mg).







## Findings from the studies reviewed

**Despite contraindications,** Cannabinoids drugs were used in patients with psychiatric conditions.

- Psychopathology studied to assess clinical improvement with Cannabinoids:
  - Trichotillomania, Obsessive Compulsive Disorder, Chronic Paranoid Schizophrenia, Bipolar Disorder, Major Depressive Disorder, Generalized Anxiety Disorder, Posttraumatic Stress Disorder and Sleep Disorders
- The cannabinoids therapeutic effect *wasn't superior to conventional treatment* for each of these disorders.





## Findings from the studies reviewed

Cannabinoids drugs were used **despite of** its potential risk for developing dependence to cannabis.

• Association with other medicines or drugs due to their effect to create **crosstolerance** must be monitored; because it **is a high risk use it to treat substance dependence disorders** (such as Alcohol, Cocaine and Opioid).

•Furthermore, these studies in terms of duration are short and knowing that prolonged use may lead to the development of addiction **a follow up on what happens to those individuals that received this treatment should be made** some time after the investigation ended.





## Findings from the studies reviewed

Indiscriminate use of cannabinoids drugs in patients with mild or moderate pathology expose the patient to potential risk without necessity, existing drugs with no relevant collateral damage.

- •Multiple Causes Acute Pain
- •Nausea and Vomiting Secondary to Motion Sickness
- •Acute Pain Secondary to Surgical Intervention
- •Migraine Syndrome
- •Bladder Dysfunction
- •Appetite Loss in Patients with Chronic Obstructive Pulmonary Disease
- •Fibromyalgia Pain
- •Multiple Causes of Chronic Pain





## Findings from the studies reviewed

Cannabinoids drug indistinct use in patients with physical diseases where the etiology and pathophysiology has no relevant association with the endocannabinoid system, exposing the study population to unnecessary side effects.

#### •Hiccup

•Hypertension

#### •Asthma

- •Irritable Bowel Syndrome
- •Gastroesophageal Reflux
- •Ulcerative Colitis
- •Crohn disease





#### WHAT WAS REPORTED WITH METHODOLOGY CONSISTENCY?

- One third of the reviewed studies methodologically fulfilled to be well structured. Including clinical, double-blind, randomized and controlled trials, they reported that the effectiveness of cannabinoids is not superior to conventional treatment.
- Cannabinoid drugs were approved only to reduce symptoms of some diseases or unwanted/collateral/side effects to other medical or surgical handling, but only in a secondary position as a line of treatment or therapeutic option in the following conditions:







#### WHAT WAS REPORTED WITH METHODOLOGY CONSISTENCY?

Effectiveness evidence as a second handle line **for treatment of side effects to medical and / or surgical interventions :** 

- •Nausea and vomiting secondary to chemotherapy for cancer
- Nausea and vomiting secondary to radiation therapy for cancer
- •Appetite loss secondary to HIV / AIDS and the use of antiretroviral drugs
- •Appetite loss secondary to Alzheimer's disease and its pharmacological management
- •Reduction of Neuropathic Pain due to spasticity of multiple sclerosis
- •Reduction of Secondary Pain to Spasticity for Spinal Cord Injury
- •Secondary Cancer Chronic Pain
- •Improving Loss of appetite secondary to ALS (Amyotrophic Lateral Sclerosis)
- •Postsurgical Brain Pain Reduction
- •Rheumatic Pain Reduction



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# **OVERALL CONCLUSIONS**









# MEDICAL USE OF CANNABIS... DOES IT HAS SCIENTIFIC SUPPORT?



THE ANSWER IS: NO. IT DOESN'T





## WHY NOT. REASONS:

There's **NO evidence about the effectiveness of smoking or eating marijuana**, and the **information obtained** mostly just comes down to reporting **isolated cases and anecdotal accounts.** 







## **SUMMARY**

Under the Evidence-Based Medicine Model; *specific medical indications for the use of commercial cannabinoids are minimal* and none are *irreplaceable by any other medicines,* which already their effectiveness and adverse effects are perfectly known for some time ago.





# RECOMMENDATIONS

- Conducting National Clinical Research.
- Compare Cannabinoid Drugs *against Conventional or Prototype Treatment*
- Study previously non consuming cannabis populations.
- Perform Clinical, controlled, double-blind and randomized studies (without focusing on observational or based on anecdotes studies) being approved by Research and Ethics Institutional Committees preferably before their implementation.





# TO CONDUCT INVESTIGATIONS... CANNABIS MUST BE LEGALIZED ?



# THE ANSWER IS: NO







# DOES MEXICO HAS THE EXPERIEN

# PERFORMING CLINICAL RESEARCH WITH

# ILLEGAL PSYCHOACTIVE SUBSTANCES?







## WHAT IF AN ILLEGAL SUBSTANCE HAS PSYCHOACTIVE THERAPEUTIC EFFECTS IN OUR COUNTRY?



The Medical Use is Approved

In pharmacological presentation by Certified Laboratories [e.g. opioids] although the psychoactive substance (plant, grass, leaves, resin [e.g. Poppy or Papaver somniferum] consumption remains illegal.





# FINAL CONSIDERATIONS

The revised articles summary of this presentation as well as the relevant literature will be shared in documented work.





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