

CÂMARA DOS DEPUTADOS COMISSÃO ESPECIAL - PL 0399/15 - MEDICAMENTOS FORMULADOS COM CANNABIS

http://bit.ly/maconha-versus-CBD

http://bit.ly/efeito-entourage

Contribuições por Dr. Fabricio Pamplona Apresentado em 10/12/2019



















SXSWL

3 produtos já registrados no mundo



THC





THC/CBD

CBD

Dronabinol (THC)

Eur Neurol. 2017 Nov; 78(5-6): 320-329.

Published online 2017 Oct 26. doi: 10.1159/000481089: 10.1159/000481089

Dronabinol Is a Safe Long-Term Treatment Option for Neuropathic Pain Patients

Sebastian Schimrigk, a,* Martin Marziniak, Christine Neubauer, Eva Maria Kugler, Gudrun Werner, and Dimitri Abramov-Sommariva

Critério

Pacientes com dor neuropatia crônica (NRS para dor >4) Mantido tratamento com amitriptilina/gabapentina, tramadol se necessário em dor aguda

Tratamento

Dose-alvo THC (7.5 - 15 mg), titulação em 2.5 mg a cada 5 dias 16 semanas vs. placebo + 32 semanas follow-up + 48 follow-up

Avaliação

NRS para dor (1-11) e SF-36 para QoL Ocorrências de EA, SEA, sinais vitais e bioquímicos

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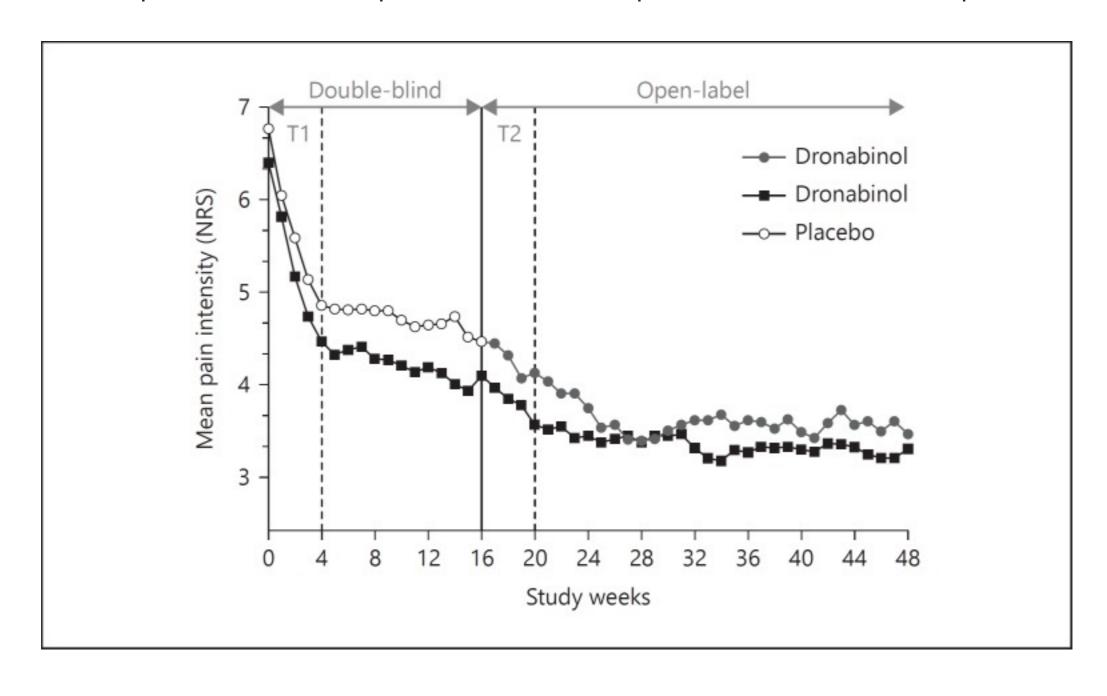
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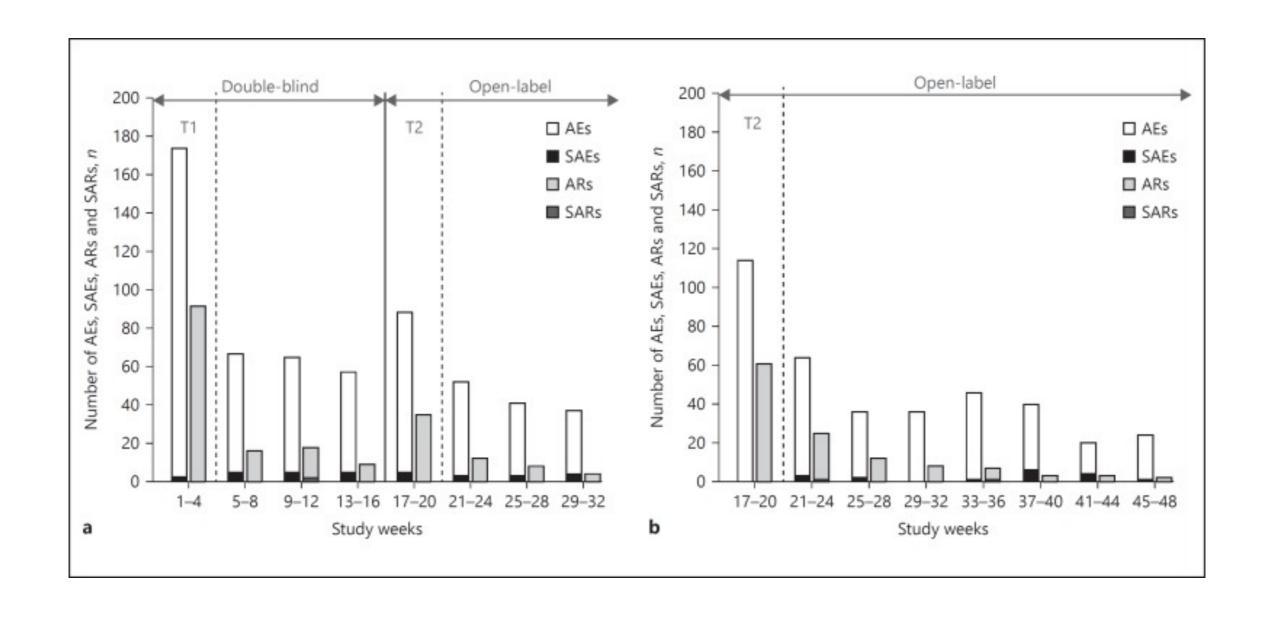
Dronabinol (THC)

Dose média: 12.7 mg/dia v.o.

Tempo de tratamento médio: 382 dias (aprox. 1 ano) 240 pacientes vs placebo / 100 pacientes follow-up



Dronabinol (THC)



Clin Ther. 2007 Sep;29(9):2068-79.

Oromucosal delta9-tetrahydrocannabinol/cannabidiol for neuropathic pain associated with multiple sclerosis: an uncontrolled, open-label, 2-year extension trial.

Rog DJ1, Nurmikko TJ, Young CA.

Author information

Abstract

BACKGROUND: Central neuropathic pain (CNP), pain initiated or caused by a primary lesion or dysfunction of the central nervous system, occurs in ~28% of patients with multiple sclerosis (MS). Delta(9)-Tetrahydrocannabinol/cannabidiol (THC/CBD), an endocannabinoid system modulator, has demonstrated efficacy for up to 4 weeks in randomized controlled trials in the treatment of CNP in patients with MS.

OBJECTIVE: The purpose of this extension was to establish long-term tolerability and effectiveness profiles for THC/CBD (Sativex (R), GW Pharmaceuticals plc, Salisbury, United Kingdom) oromucosal spray in CNP associated with MS.

METHODS: This uncontrolled, open-label trial was an indefinite-duration extension of a previously reported 5-week randomized study in patients with MS and CNP. In the initial trial, patients were randomized to placebo or THC/CBD. Patients were only required to maintain their existing analgesia in the randomized study. In the open-label trial they could vary their other analgesia as required. All patients (placebo and THC/CBD) who completed the randomized trial commenced the open-label follow-up on THC/CBD (27 mg/mL: 25 mg/mL). Patients titrated their dosage, maintaining their existing analgesia. The primary end point of the trial was the number, frequency, and type of adverse events (AEs) reported by patients. Secondary end points included changes from baseline in 11-point numerical rating scale (NRS-11) neuropathic pain score, hematology and clinical chemistry test results, vital signs, trial drug usage, and intoxication visual analogue scale scores.

RESULTS: Sixty-six patients were enrolled in the randomized trial; 64 (97%) completed the randomized trial and 63 (95%) entered the open-label extension (race, white, 100%; sex, male, 14 [22%]; mean [SD] age, 49 [8.4] years [range, 27-71 years]). The mean (SD) duration of open-label treatment was 463 (378) days (median, 638 days; range, 3-917 days), with 34 (54%) patients completing >1 year of treatment with THC/CBD and 28 (44%) patients completing the open-label trial with a mean (SD) duration of treatment of 839 (42) days (median, 845 days; range, 701-917 days). Mean NRS-11 pain scores in the final week of the randomized trial were 3.8 in the treatment group and 5.0 in the placebo group. In the 28 (44%) patients who completed the 2-year follow up, the mean (SD) NRS-11 pain score in the final week of treatment was 2.9 (2.0) (range, 0-8.0). Fifty-eight (92%) patients experienced > or =1 treatment-related AE. These AEs were rated by the investigator as mild in 47 (75%) patients, moderate in 49 (78%), and severe in 32 (51%). The most commonly reported AEs were dizziness (27%), nausea (18 %), and feeling intoxicated (11%). Two treatment-related serious AEs (ventricular bigeminy and circulatory collapse) were judged to be treatment-related. Both serious AEs occurred in the same patient and resolved completely following a period of discontinuation. Eleven (17%) patients experienced oral discomfort, 4 persistently. Regular oral examinations revealed that 7 (11%) patients developed white buccal mucosal patches and 2 (3%) developed red buccal mucosal patches; all cases were deemed mild and resolved. Seventeen (25%) patients withdrew due to AEs. The mean number of sprays and patients experiencing intoxication remained stable throughout the follow-up trial.

CONCLUSIONS: THC/CBD was effective, with no evidence of tolerance, in these select patients with CNP and MS who completed approximately 2 years of treatment (n = 28). Ninety-two percent of patients experienced an AE, the most common of which were dizziness and nausea. The majority of AEs were deemed to be of mild to moderate severity by the investigators.

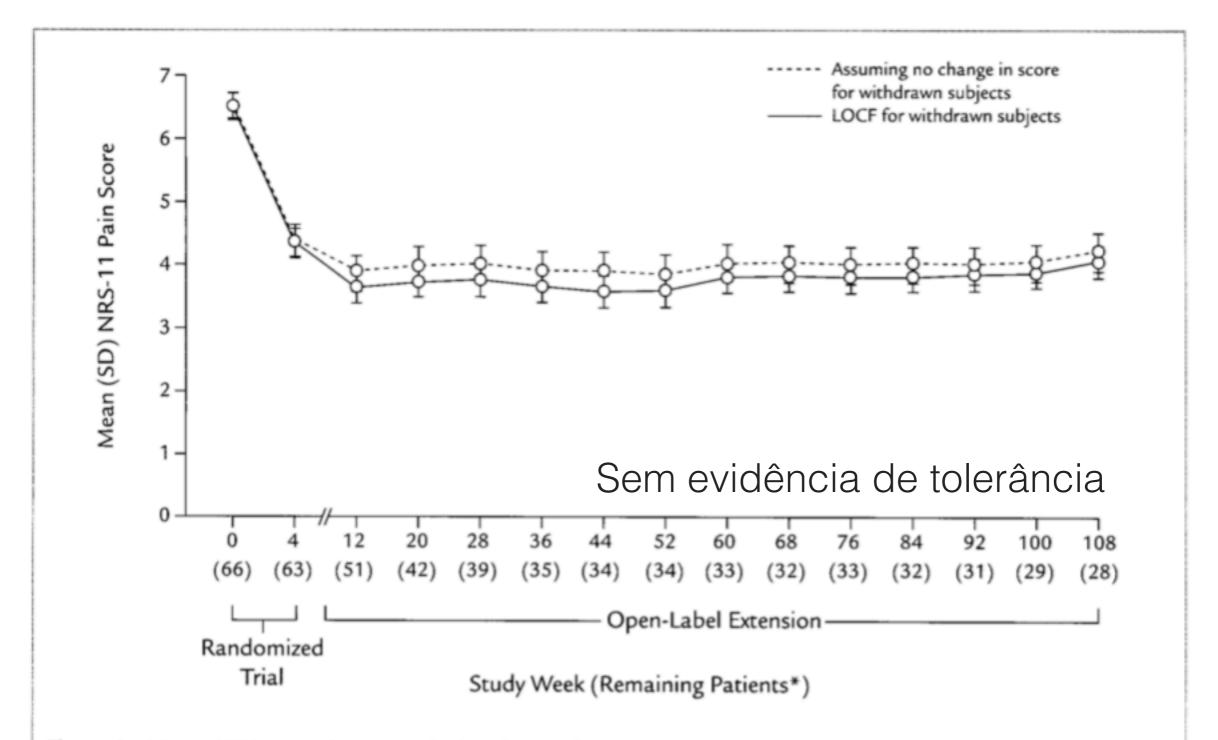


Figure 2. Mean (SD) 11-point numerical rating scale (NRS-11) pain scores throughout the randomized⁶ and open-label trial with last-observation-carried-forward (LOCF) for withdrawn patients. *The number of patients remaining on trial at each time point are for illustrative purposes.

Poucos EAs EAs comuns a outros medicamentos SNC

| Table II. Treatment-related adverse events (AEs) curring in >5% of patients with multiple so sis (MS) receiving Δ ⁹ -tetrahydrocannabi cannabidiol. | | | | | |
|---|-----------|--|--|--|--|
| | Patients, | | | | |
| AEs | No. (%) | | | | |
| Patients with ≥1 AE | 58 (92.1) | | | | |
| Gastrointestinal disorders | | | | | |
| Nausea | 11 (17.5) | | | | |
| Diarrhea | 6 (9.5) | | | | |
| Mouth plaque | 6 (9.5) | | | | |
| Vomiting, NOS | 5 (7.9) | | | | |
| Constipation | 4 (6.3) | | | | |
| Dry mouth | 4 (6.3) | | | | |
| Mouth ulceration | 4 (6.3) | | | | |
| Tooth discoloration | 4 (6.3) | | | | |
| General disorders and | | | | | |
| administration-site conditions | | | | | |
| Feeling intoxicated | 7 (11.1) | | | | |
| Edema, peripheral | 6 (9.5) | | | | |
| Fatigue | 4 (6.3) | | | | |
| Weakness | 4 (6.3) | | | | |
| Nervous system disorders | | | | | |
| Dizziness | 17 (27.0) | | | | |
| Balance impaired, NOS | 6 (9.5) | | | | |
| Headache, NOS | 5 (7.9) | | | | |
| MS aggravated | 5 (7.9) | | | | |
| Respiratory, thoracic, | | | | | |
| and mediastinal disorders | | | | | |
| Pharyngitis | 4 (6.3) | | | | |
| NOS = not otherwise specified. | | | | | |

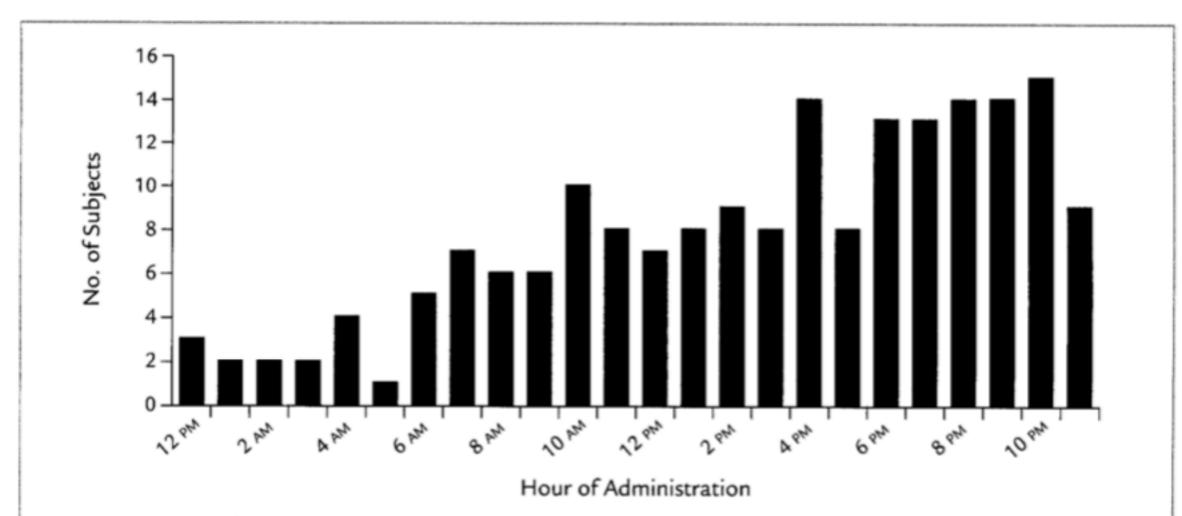
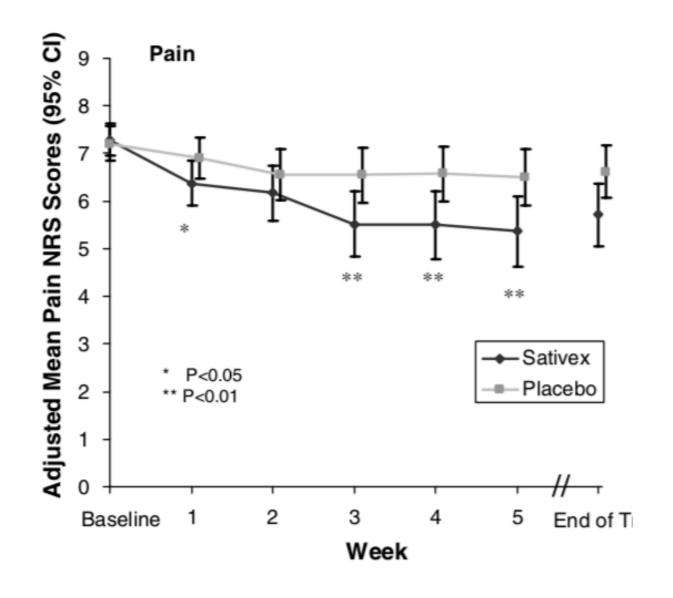


Figure 3. Time of Δ^9 -tetrahydrocannabinol/cannabidiol administration by number of patients taking ≥ 1 spray in each hour on ≥ 1 of the last 7 days of treatment in patients with multiple sclerosis who completed the open-label trial (n = 28).

Sativex successfully treats neuropathic pain characterised by allodynia: A randomised, double-blind, placebo-controlled clinical trial

Turo J. Nurmikko a,*, Mick G. Serpell b, Barbara Hoggart c, Peter J. Toomey d,
Bart J. Morlion e, Derek Haines f

Cannabinoids are known to have analgesic properties. We evaluated the effect of oro-mucosal sativex, (THC: CBD), an endocannabinoid system modulator, on pain and allodynia, in 125 patients with neuropathic pain of peripheral origin in a five-week, randomised, double-blind, placebo-controlled, parallel design trial. Patients remained on their existing stable analgesia. A self-titrating regimen was used to optimise drug administration. Sixty-three patients were randomised to receive sativex and 62 placebo. The mean reduction in pain intensity scores (primary outcome measure) was greater in patients receiving sativex than placebo (mean adjusted scores -1.48 points vs. -0.52 points on a 0–10 Numerical Rating Scale (p = 0.004; 95% CI: -1.59, -0.32). Improvements in Neuropathic Pain Scale composite score (p = 0.007), sleep NRS (p = 0.001), dynamic allodynia (p = 0.042), punctate allodynia (p = 0.021), Pain Disability Index (p = 0.003) and Patient's Global Impression of Change (p < 0.001) were similarly greater on sativex vs. placebo. Sedative and gastrointestinal side effects were reported more commonly by patients on active medication. Of all participants, 18% on sativex and 3% on placebo withdrew during the study. An open-label extension study showed that the initial pain relief was maintained without dose escalation or toxicity for 52 weeks.



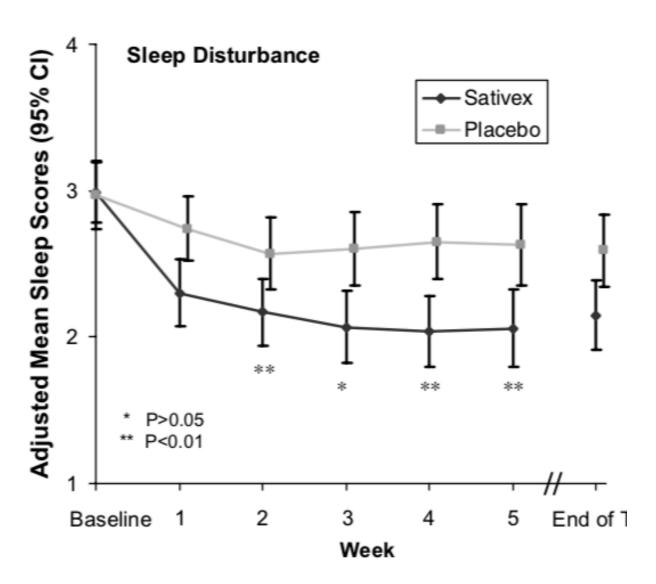


Table 5
Treatment emergent adverse events (AEs) experienced by 3 or more subjects (~ 5%) receiving sativex compared with placebo and the % of subject who withdrew due to these AEs

| Adverse event | Number (%) of patients experiencing AEs | | Number (%) of patients who withdrew due to AE | | |
|--------------------------|---|------------------|---|----------------------|--|
| | Sativex $(N = 63)$ | Placebo (N = 62) | Sativex $(N = 63)$ | Placebo ($N = 62$) | |
| Dizziness | 18 (28.6) | 9 (14.5) | 2 (3.2) | 0 | |
| Nausea | 14 (22.2) | 7 (11.3) | 1 (1.6) | 0 | |
| Fatigue | 13 (20.6) | 5 (8.1) | 0 | 0 | |
| Dry mouth | 11 (17.5) | 3 (4.8) | 0 | 0 | |
| Vomiting | 8 (12.7) | 3 (4.8) | 2 (3.2) | 0 | |
| Feeling drunk | 6 (9.5) | 1 (1.6) | 1 (1.6) | 0 | |
| Headache | 6 (9.5) | 9 (14.5) | 0 | 0 | |
| Diarrhoea | 4 (6.3) | 0 | 2 (3.2) | 0 | |
| Nasopharyngitis | 4 (6.3) | 2 (3.2) | 0 | 0 | |
| Anorexia | 4 (6.3) | 0 | 1 (1.6) | 0 | |
| Somnolence | 4 (6.3) | 1 (1.6) | 0 | 1 (1.6) | |
| Abdominal pain upper | 3 (4.8) | 1 (1.6) | 0 | 0 | |
| Disturbance in attention | 3 (4.8) | 0 | 0 | 0 | |
| Memory impairment | 3 (4.8) | 0 | 0 | 0 | |

The Brief Repeatable Battery of Neuropsychological Tests (BRB-N) was given to 85 patients (43 randomised to sativex and 42 to placebo). No difference was seen between groups assessed for cognitive function with this method at the beginning and end of treatment (Table 6).

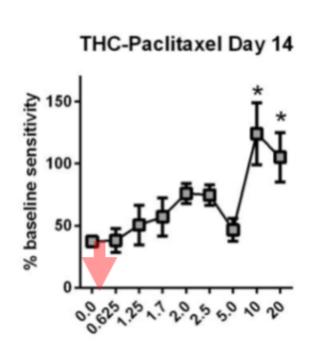
Intoxication scores (SD) remained low throughout the study, peaking after the self-titration week at 8.0 (15.4) for sativex and 3.0 (7.9) for placebo on a 0–100 scale, respectively. Five patients on sativex and 2 patients on placebo scored more than 40/100 during the maintenance period.

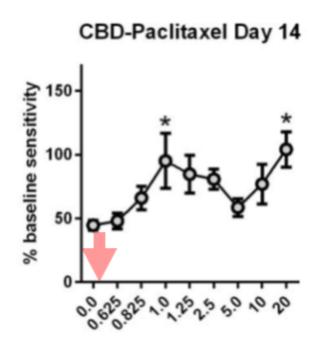
CBD+THC: Sinergia

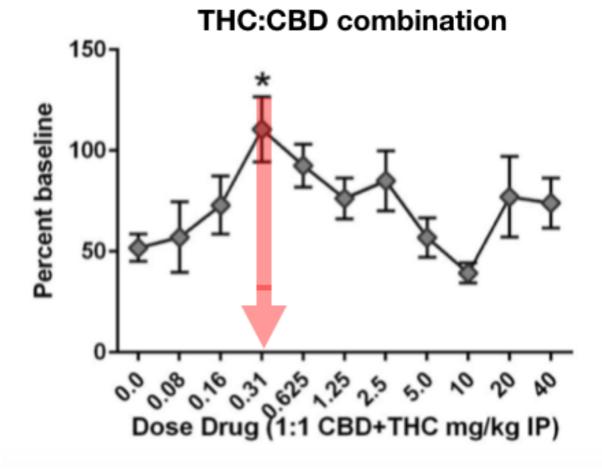
Br J Pharmacol. 2017 Sep;174(17):2832-2841. doi: 10.1111/bph.13887. Epub 2017 Jul 27.

Single and combined effects of Δ^9 -tetrahydrocannabinol and cannabidiol in a mouse model of chemotherapy-induced neuropathic pain.

King KM¹, Myers AM¹, Soroka-Monzo AJ¹, Tuma RF¹, Tallarida RJ¹, Walker EA², Ward SJ¹.









Potential Clinical Benefits of CBD-Rich Cannabis Extracts Over Purified CBD in Treatment-Resistant Epilepsy: Observational Data Meta-analysis

Fabricio A. Pamplona 1*, Lorenzo Rolim da Silva 2 and Ana Carolina Coan 3

TABLE 2 | Efficacy of treatments in the reduction of convulsive seizures (heterogeneous population).

| References | Patients | Reported improvement | >50% | >70% | Mean daily dose (mg/kg/day) |
|-----------------------|----------|----------------------|---------|--------|-----------------------------|
| Total reports | 670 | 399/622 | 216/553 | 83/311 | (2-50 mg/kg) |
| Mean | 100% | 64% | 39% | 27% | 15.0 mg/kg |
| CBD pure (6) | 137 | 37% | 37% | 22% | 22.9 mg/kg |
| CBD pure (7) | 7 | 86% | 71% | 57% | 22 mg/kg |
| CBD pure (8) | 13 | 85% | 70% | 46% | 24.6 mg/kg |
| CBD pure (9) | 18 | 72% | 50% | 22% | 37.7 mg/kg |
| CBD pure (10) | 48 | NR | 42% | NR | 28.2 mg/kg |
| CBD-rich extract (11) | 19 | 84% | 74% | 42% | 7.0 mg/kg |
| CBD-rich extract (12) | 117 | 85% | NR | NR | 4.3 mg/kg |
| CBD-rich extract (28) | 75 | 57% | 33% | NR | NR |
| CBD-rich extract (13) | 74 | 89% | 34% | 18% | <10 mg/kg |
| CBD-rich extract (14) | 43 | 83% | 67% | 42% | 3.2 mg/kg |
| CBD-rich extract (15) | 119 | 49% | 24% | NR | NR |

Endpoints: any improvement reported, improvement > 50% ("clinical responder") and > 70%, and average dose reported. NR, not reported; ?, inconclusive.

¹ Entourage Phytolab, São Paulo, Brazil, ² Bedrocan Brasil, São Paulo, Brazil, ³ UNICAMP, Campinas, Brazil

Óleo de cânhamo "full spectrum"

Potencialmente

> 100 canabinóides

400+ compostos únicos

CANABINOIDES

Principais CBD (18-25%) Δ9-THC (0.3-1%)

Outros <1%

CBN

THCV

CBG

CBC

Δ8-ΤΗС

TERPENOS

Mais comuns

Mirceno

Limoneno

Pineno

Humuleno



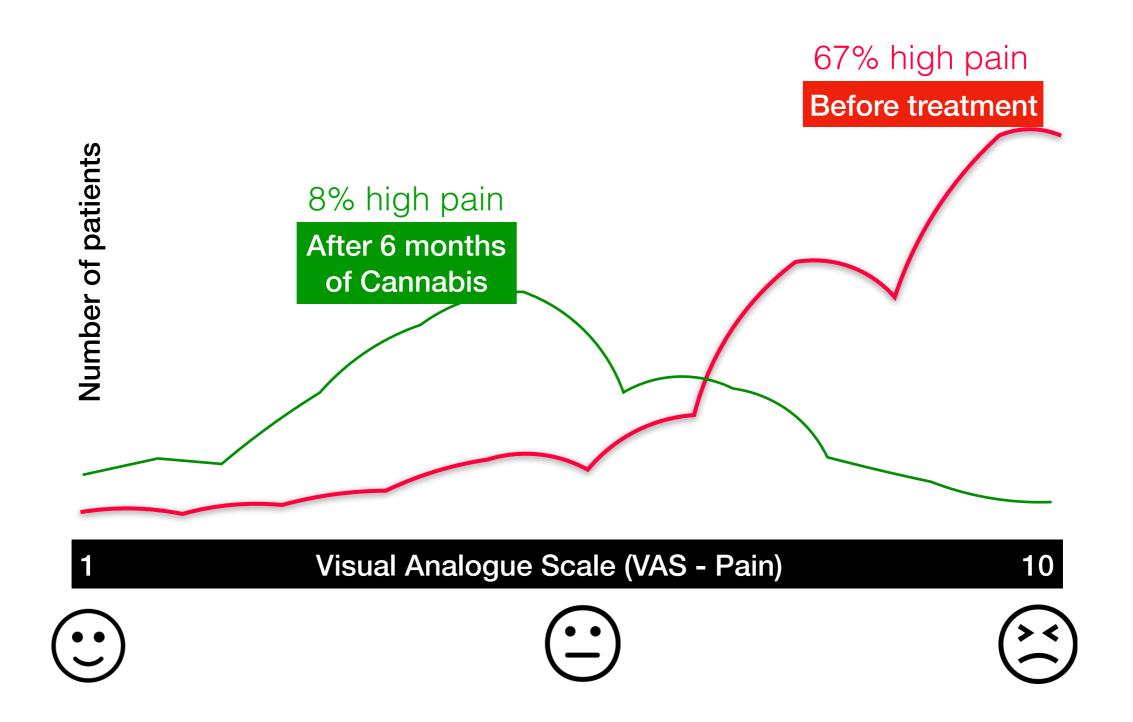
Study with 2736 patients in Israel

Only 25% had previous experience

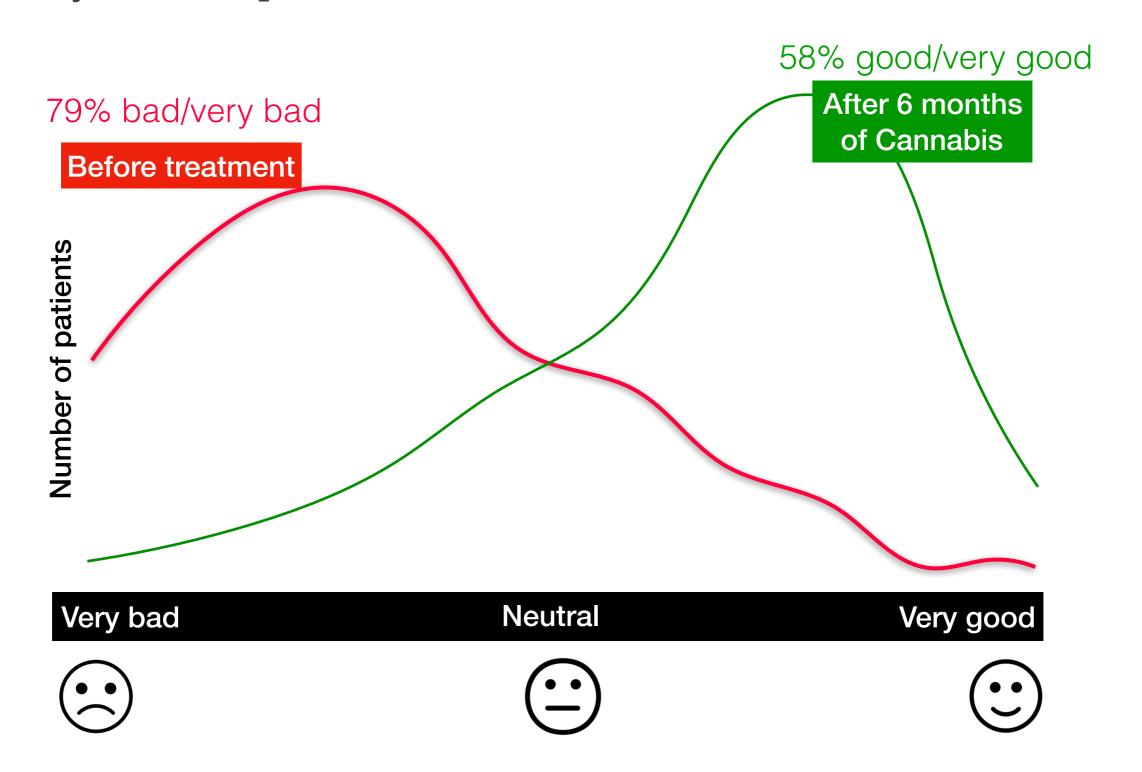
93% declared improvement in their conditions with Cannabis treatment

The vast majority used for **pain** and/or **cancer** management

[Pain intensity] Lines drawn based on the population distribution (histogram)



[Quality of Life] Lines drawn based on the population distribution (histogram)



[Types of treatment]



Preferred compositions

54%

15-18% THC <1% CBD

(Myrcene-dominant strain) (night, sedative)

27%

20-23% THC <1% CBD

(Pinene-dominant strain) (day, uplifting)

19%

1% THC 16% CBD

(Myrcene-dominant strain) (day/night, sedative)

[Adverse events]



Dizziness 10%



Dry mouth 7%





Weakness 2%



Nausea 2%







Information for Health Care **Professionals**

Cannabis (marihuana, marijuana) and the cannabinoids

Informações completas como auxílio à prescrição médica Mais de 40 aplicações clínicas descritas

https://www.canada.ca/en/health-canada/services/drugs-medication/cannabis/informationmedical-practitioners/information-health-care-professionals-cannabis-cannabinoids.html

https://www.canada.ca/en/health-canada/services/drugs-medication/cannabis/ information-medical-practitioners.html

Your health and

safety... our priority.