

# USE OF CANNABIDIOL FOR THE TREATMENT OF CHRONIC PAIN IN DOGS

Pablo De la Iglesia Muñoz  
Final Degree Project - Faculty of Veterinary Medicine, June 2022



## INTRODUCTION

- Pain is defined like an unpleasant sensory and emotional experience associated with real or potential tissue damage.
- The classification of pain can be much extensive, but one of the most used is according to the duration in acute or chronic.
- Acute pain have a biological function, persist during the healing process, while chronic pain persist more than 3-6 months, affecting to the owner economically (long treatments) and the dog reducing the life quality (pain and quality of walks).
- Analgesic drugs is the most used method to reduce pain, but nutraceuticals products like cannabidiol are rising in the last years.

## ABOUT CANNABIDIOL (CBD)

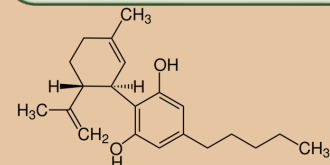
- Non-psychoactive fitocanabinoide of the plant of *Cannabis Sativa*.
- Hepatic metabolism.
- Low adverse effects.

## OBJECTIVES

- ❑ To evaluate the analgesic effect of CBD in dogs with chronic pain.
- ❑ To provide a better validity to the treatment, considering that the nutraceutical products doesn't require clinical trials for its commercialization.

## MATERIAL AND METHODS

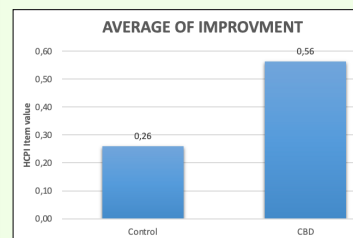
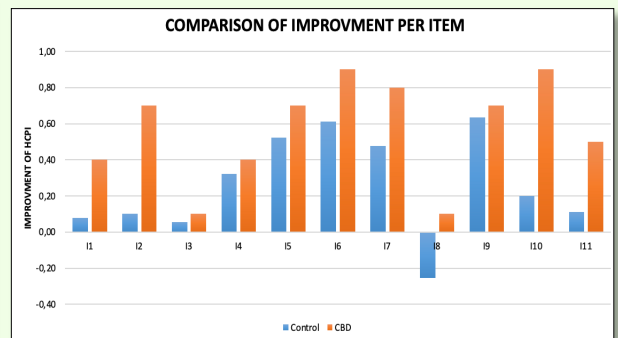
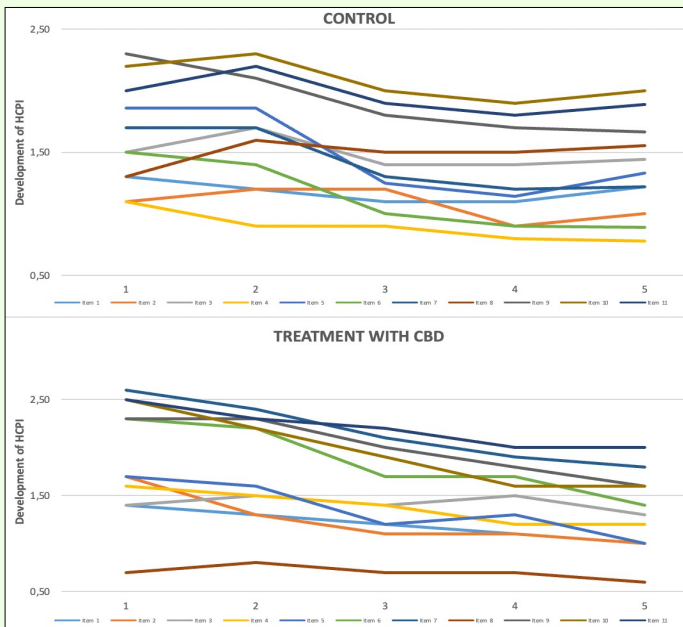
- Double-blinded study.
- Dogs (n=20) with orthopedic chronic pain, without other pathology and without treatment.
- Two groups: control (n=10) and treatment with CBD (n=10).



## RESULTS

- Of 20 animals, HCPI score was reduced in 40% of placebo and 80% of treated dogs.
- All treatment items and all except 8 control item improve.

- All items improve more in CBD treatment that in control.
- "Dog's ease of movement after a long rest" item shows the most different value between control and CBD treatment.



- The total average of all items it's more than double in CBD treatment



Items → 1: Attitude; 2: willingness to play; 3: discomfort behavior; 4: eagerness to walk; 5: up/down stairs; 6: willingness to run; 7: willingness to jump; 8: ease in lying; 9: rising from down position; 10: ease of movement after a long rest; 11: ease of movement during/after exercise.

## CONCLUSIONS

- ❖ Knowledge of CBD treatments is rising, but there are some characteristics that needs more studies.
- ❖ The results shows better scores in CBD treatment in comparison with control group.
- ❖ Controlled dose of CBD cause mild or no side effects.