

CBD containing gel and oil spray implementation to reduce inflammation after simple and complex dental surgery procedures

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Background:

CBD is a substance humans have been in contact with for centuries. However, we know relatively little about its potential applications in modern medicine. Much of the data that exists is for older patients and those who have suffered chronic conditions for many years. There is insufficient data of the use of CBD in dental surgery.

Fitodenta has developed a nutrition supplement, that includes phytocannabinoids. Phytocannabinoids relieves pain and inflammation in clinical trials, phytocannabinoids is also a powerful antioxidant and has 20 times the anti-inflammatory power of aspirin and twice that of hydrocortisone . Some signs are shown, that CBD may positively influence immune system response and antibiotics may be refused as prophylactic agent after minor surgery.

Aim:

To demonstrate the efficacy of phytocannabinoids in the reduction of inflammation and pain after minor (simple tooth extraction, implant placement) and major dental surgical procedures (bone regeneration, complicated third molar extraction)

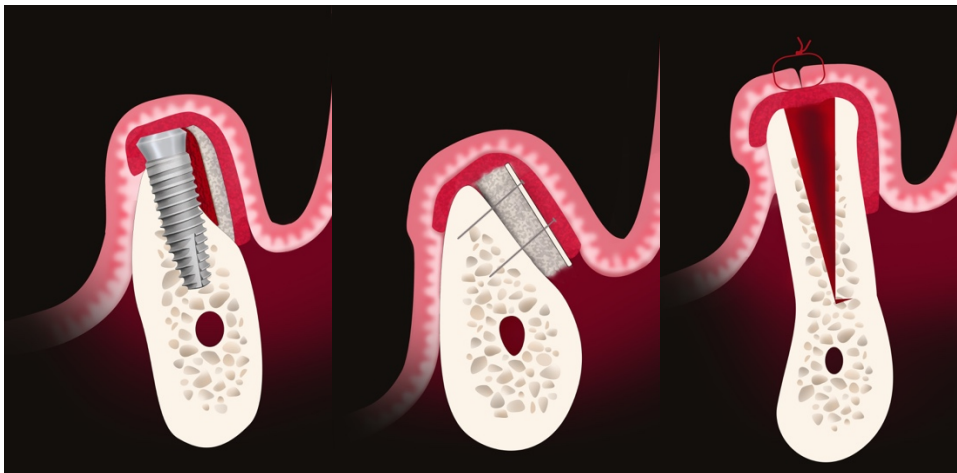
Materials and methods.

144 patients were involved in the first group and were divided in 4 subgroups:

- 1.1. Antibiotics only (36 patients);
- 1.2. Antibiotics + CBD spray only (36 patients);
- 1.3. Antibiotics + CBD gel only (36 patients);
- 1.4. Antibiotics + CBD gel and spray (36 patients).

Patients received big dental surgery procedures involving gingival flap elevations and flap releasing. (bone regeneration, complicated third molar extraction)

Antibiotics were prescribed to all groups and CBD products (gel, spray or both) were provided according to subgroups additionally.



48 patients in second group with following subgroups:

- 2.1. No additional treatment (24 patients);
- 2.2. CBD gel and spray (24 patients).

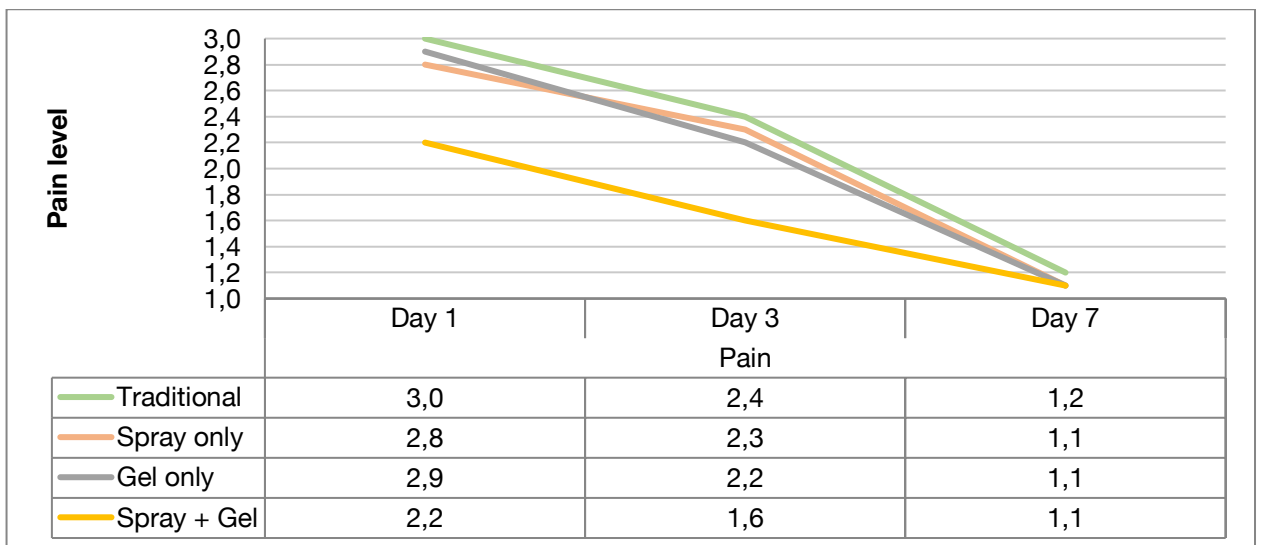
Patients received simple dental surgery (no flap releasing) and no additional medicine were prescribed for one group and CBD gel and spray to the other group.

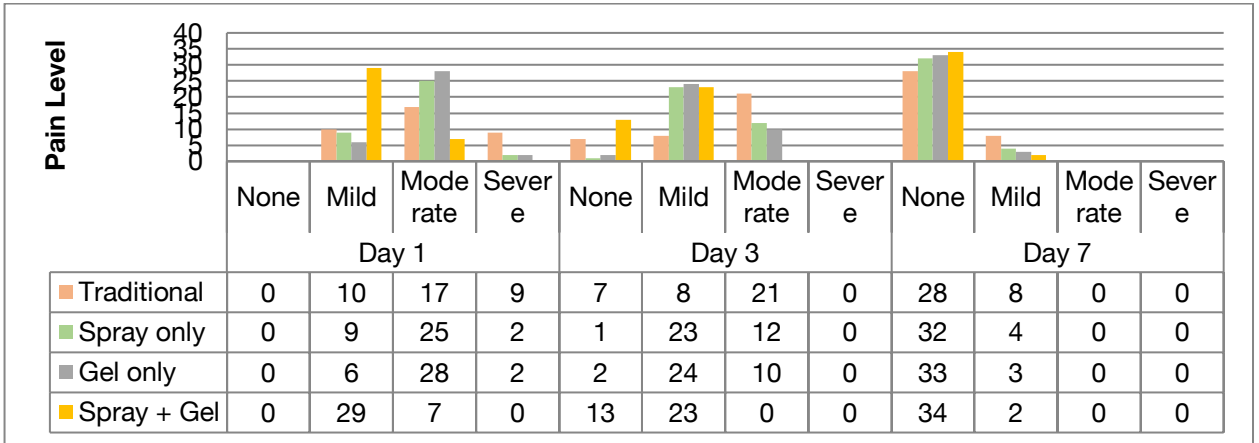
Pain level, swelling, need for pain killers and primary/secondary healing was registered.



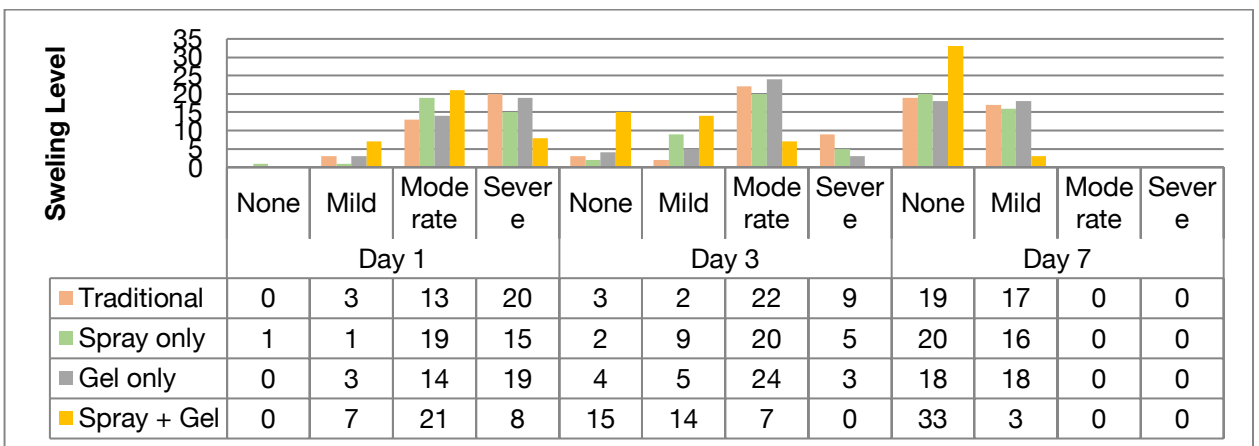
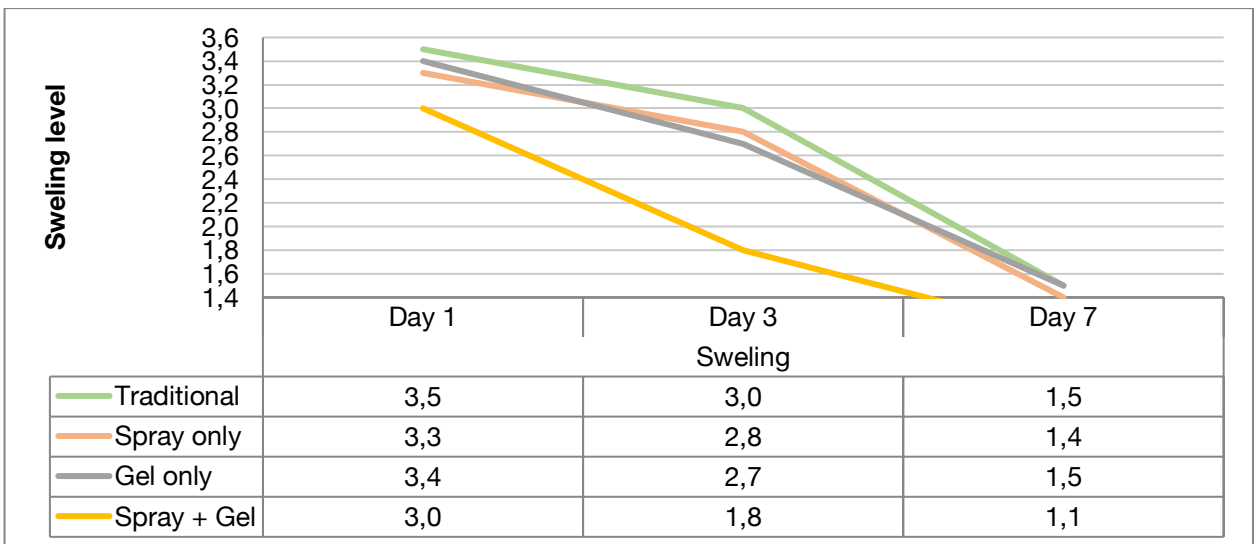
Results

First group





Pain level may be seen in the table. Spray and gel mix showed highest pain reduction score.

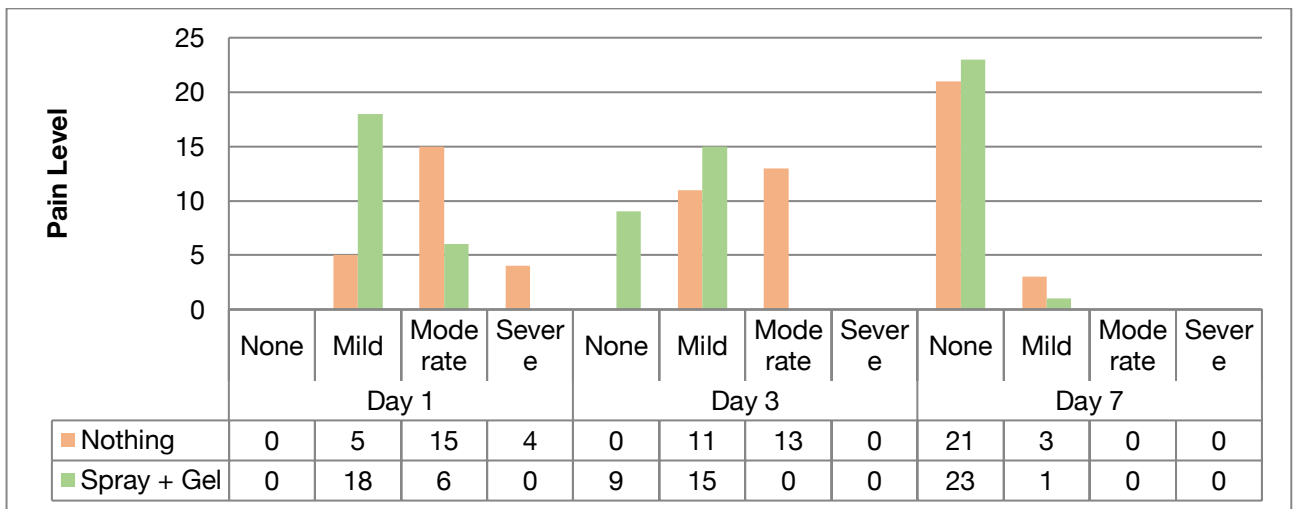
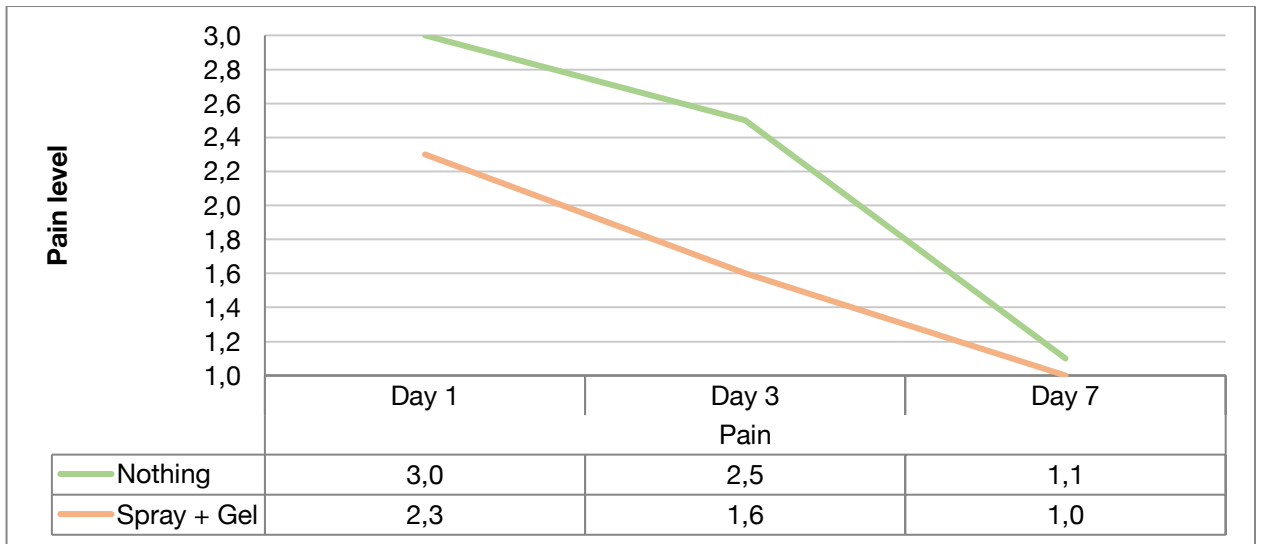


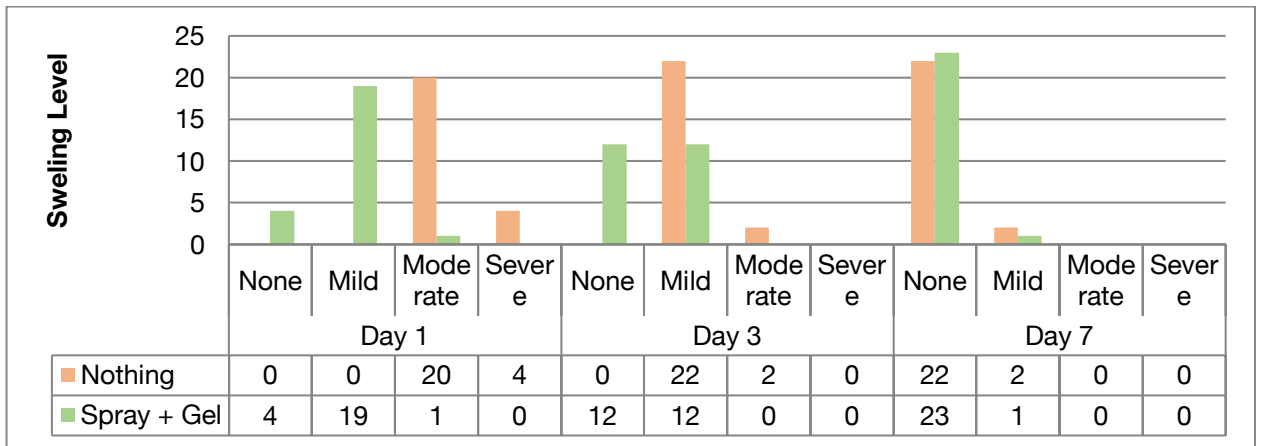
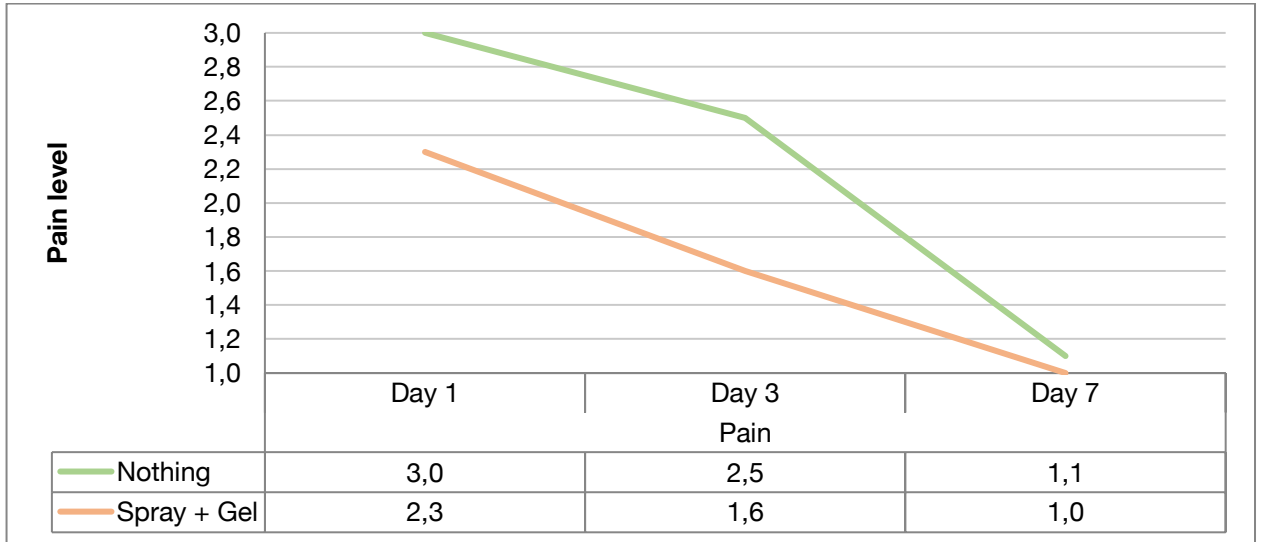
Spray + gel group showed statistically significant lowest level on the day 1 as well as on day 3.

Need for pain killers was lowest in mix group as well.

Primary and secondary healing was not influenced and has no difference between groups.

Second group





Spray + gel mix statistically significant reduce swelling and pain during first week of healing.

Conclusions:

1. CBD containing gel + spray mix statistically significant reduce inflammation, need for pain killers after minor and major dental surgery procedures.

Clinical implication:

Using supplements containing CBD is recommended after dental surgery procedures to reduce inflammation and increase healing capacity