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## Ozonotherapy for wound management in dogs [abstract]

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### ABSTRACT

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**Purpose:** To demonstrate the bactericide and regenerative capabilities of ozone through the execution of established protocols for infected wounds management.

##### Patients and methods:

- Ozone generator
- Medical oxygen
- Drinking water
- Nelaton lead
- Gauzes
- Polyethylene bags of different sizes
- 10 mL syringes
- 30G needles

Collect information of clinical cases of 5 patients with purulent wounds caused by bite of congener treated with ozone therapy (OP) with bagging technique (1) – injury washing with ozonized water and posterior bagged of affected area with polyethylene for 15 minutes with an ozone concentration of 56 mg/L and infiltration of wound edges with the gas in an anti-inflammatory concentration of 33 mg/L.

It was possible to observe short recovery processes of disinfection and regeneration of infected wounds using in only OP as wound management protocol.

**Discussion:** Ozone bactericide property is probably the most studied topic because it was early used in the management of infected wounds (2,3). Later, with the invention of plastic materials, local treatment of septic limbs with gaseous ozone became possible. The regeneration helped with ozone has been intensively described, the acceleration of the process is related with cytokines release and the increase of tisular oxygenation [4].

**Conclusion:** Based on that, it is possible to conclude that ozonotherapy could be used as another therapeutic option in the management of infected wounds with bagging technique due to bactericide and regenerative properties of this gas.

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