



300 Research paper

The combined use of ozone therapy and autologous platelet-rich plasma as an alternative approach to foot rot treatment for

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In **Significant Impact Groups:**

Pathogen management \ Eradication Specific alternatives

Species targeted: Sheep;

Age: Not stated;

Summary:

This study aimed to evaluate the effectiveness of ozone therapy and platelet rich plasma (PRP) in the treatment of acute foot rot. 10 sheep suffering from foot rot were treated and compared to a control group of 5 healthy sheep. Treatment consisted of local ozone application and then with non-healing cases, the application of PRP. We analysed effectiveness of combined treatment and the potential toxicity of ozone therapy. Complete recovery was achieved after local ozone treatment in 6/10 sheep. The remaining four animals also healed after the subsequent PRP therapy. Our results showed that ozone treatment did not cause major blood or inflammatory changes. We demonstrated that the local application of ozone and PRP proved to be an effective foot rot treatment that avoids the use of antibiotics/ disinfectants. However, due to the relatively high costs and time requirements, it is potentially most suitable for smaller farms.

300 Research paper - Szpondera - 2017 - The combined use of ozone therapy and autologous platelet-rich plasma as an alternative approach to foot rot treatment for sheep_ A preliminary study

Where to find the original material:

<https://www.sciencedirect.com/science/article/abs/pii/S0921448817302201?via%3Dihub>;

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