

Research title

Use of Platelet-Rich Plasma as a treatment for bovine hock lesions

Impiego di lisato piastrinico nel trattamento delle patologie podali del bovino

Tutor

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State of the art and aims of the project

Hock lesions are still a serious problem in dairy farms, thus affecting animal welfare causing relevant economic losses. With the term "hock lesion" both infectious and non-infectious diseases are considered, whose treatments are still not standardized. However, all hock lesions induce a loss of substance which results in tissue modifications. The use of the homologous Platelet-Rich Plasma (PRP) is proposed as an innovative approach in the treatment of these lesions with the aim of reducing healing time, antibiotic treatment and limiting production losses. The PRP, containing growth factors, plays a chemotactic and supportive action of white line cells, promoting tissue regeneration. The aim of the project is to evaluate the effect of the administration of homologous PRP for the treatment of hock lesions in dairy cows. This approach is based on the regenerative mechanisms of the PRP and will be tested on various foot diseases due to lameness.