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## Effect of *Corynebacterium cutis* lysate treatment on the cytokine levels in sheep

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The aim of this research was to determine the effect of *Corynebacterium cutis* lysate on cytokine levels including hemogram parameters in sheep. In the research, 10 male yearling Merino sheep was used. Recommended dose (8 mg, 0.4 mL) of *Corynebacterium cutis* lysate (Ultra-corn® Inj.) was administered subcutaneously at a single dose to each animal. Before (0 hour, control) and after the treatment, blood samples were obtained from *v. jugularis* at 2, 4, 8, 12, 24, 48, 72 and 96 hours. Concentrations of serum tumor necrosis factor alpha (TNFα), interleukin (IL)-1β, IL-6 and IL-10 were measured with ELISA reader, while hemogram values (white blood cell, red blood cell, platelet, hematocrit, hemoglobin) were determined with hemocell counter. *Corynebacterium cutis* lysate caused fluctuations on the cytokine levels ( $p>0.05$ ) and did no effect the hemogram parameters. In conclusion, it may be stated that treatment of *Corynebacterium cutis* lysate has no statistically significance effect on the cytokine levels, and detailed researches are need to determine the effect of *Corynebacterium cutis* lysate on the passive immunity.

### Biography

Burak Dik is pursuing his PhD education from Selcuk University. He works as Research Assistant in Selcuk University, Faculty of Veterinary Medicine. He has published more than 13 papers in reputed journals and he has been working some reputed project.

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