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Veterinarni Medicina

$\gamma\delta$ -TCR⁺ CD2⁻ lymphocytes are recruited into bovine mammary gland after stimulation

M. Faldyna, L. Leva, Z. Sladek, D. Rysanek, M. Toman

Veterinarni Medicina, 51 (2006): 258-264

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$\gamma\delta$ -T-Cell Receptor (TCR) lymphocytes were detected in mammary gland lavages collected from 10 clinically healthy virgin heifers before and after intramammary stimulation with synthetic muramyl dipeptide analogue. Using two-colour flow cytometry, CD2⁺ and CD2⁻ subsets of $\gamma\delta$ -TCR lymphocytes were analyzed. CD2⁺ $\gamma\delta$ -TCR lymphocytes markedly prevailed over CD2⁻ cells in intact mammary gland: $88.9 \pm 4.9\%$ of $\gamma\delta$ -TCR lymphocytes were CD2⁺. After stimulation, neutrophils and $\gamma\delta$ -TCR lymphocytes were recruited into the mammary gland. Among $\gamma\delta$ -TCR lymphocytes, CD2⁻ cells were mainly

responsible for their expansion. After stimulation, $60.8 \pm 13.4\%$ of $\gamma\delta$ -TCR lymphocytes were CD2+ ($P < 0.01$ when compared with mammary gland lavages before stimulation). It follows from the present study that the cells seem to be involved in the first phase of a response to an infection affecting mammary gland.

Keywords:

cattle; udder; mastitis

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