Clinical case report of dermal hypersensitivity following FMD vaccination in a heifer

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In endemic areas, vaccination programs with killed or inactivated vaccine is used to control the disease. In this case report a 12 month old heifer with skin lesions was examined in a dairy farm around Mashhad. Clinical examination showed severe,extensive lesions on face, neck and fore limbs skin and vesicles on teats, just two days after vaccination. Thermal table showed a mild cosinophilia, and histopathological examination revealed the accumulation of inflammatory cells in capillaries and mononuclear cell around dermis, especially in hair follicle perifolliculitis, and excretion of these cells in to the follicular epithelial layer.

There were various factors which could cause such a reaction for example concurrent diseases e.g. HVBD – MD or John's disease, hypersensitivity reaction due to previous vaccination, or intra dermal injection of vaccine, and etc.

Key words: Vaccination, FMD, Hypersensitivity, Cattle.

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References