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Comparison between some medicinal plants and *Pira cream* in clinical *Staphylococcus* and *E. coli* mastitis in dairy cattle

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The aim of this study was carried out to compare of medicinal plants and pira cream as localized anti-inflammatory drug to treatment of Staphylococcus and E.Coli mastitis in the dairy cattle. In this study which has done in semi-industrial husbandry shahr-e-kord province on 20 infected dairy cattle that have clinical Staphylococcus and E.Coli mastitis. Detection of microorganism confirmed via milk culture in the laboratory. The dairy cattle were randomly allocated in 2 groups with 10 members. One group called control (treated with Pira cream) and the other group called treatment (treated with medicinal plants). The systemic treatment was done via injection of Penicillin, Gentamicin and local treatment via penestroson ointment intra mammary glands. The systemic treatment confirmed by Antibioqram test. On the other, Ointments including Pira cream and medicinal plants used superficially on mammary gland as well as the same time and used twin per day after milking. The medicinal plant compounds were *Plantago Psyllium*, *Aithaea Officinalis*, *Viola odorata*, *Malva sylvestris*, Flaxseed and flour of *Vicia Fava* that offered by powder form with equal amount of each element and used from Vaseline (Eucerin) as a basic material of cream. However, for improve progress were done Clinical examination and California mastitis test (CMT) on every day.

The result shown the usage of medicinal plants affected on improving Staphylococcus and E.Coli mastitis process better than Pira cream in infected cattle and treatment done in shorter time (Medicinal plants 4 days VS Pira cream 5 days). The cost of treatment with medicinal plants is cheaper than Pira cream.

On the other, using of medicinal plants better than synthetic, chemical drugs and industrial medicine has better performance in more disease.

Key words: Mastitis, *Plantago Psyllium*, *Aithaea Officinalis*, *Viola odorata*, *Malva sylvestris*, Flaxseed, *Vicia Fava*, Pira cream, dairy cattle

Comparison of the effects of *Cupric sulfate* with *Vaseline* and *Phyto ointment* in the treatment of heifer dermatophytosis

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In recent time the natural drugs returned by synthetic and semi synthetic drugs in human medicine. But in veterinary medicine more than 50 percent of animals treatment done by mineral, organic compounds, medicinal plants and microbial organisms. For example: Na, K, Ca, Alum, Lime, Cupric Sulfate, Acids and Alcohols. In this study 20 heifers (18 – 20 month) selected in two groups with ten members and examined. At first step sampled to identify the type of fungus. In first group used Phyto ointment, in second group Cupric Sulfate with Vaseline. The treatment was done twin per day via superficial ointment. The libratory finding shown Trichophyton Verrucosum were separated from infected area. The usage of Cupric Sulfate and Vaseline in treatment of dermatophytosis was better and faster than Phyto ointment. Heifer treated by Cupric Sulfate with Vaseline and Phyto ointment during 4 and 16 days. The treatment method by Cupric Sulfate with dermatic reaction and a few day later histological repairs was done successfully. Finally sampled and cultured from infected site and Trichophyton Verrucosum was not observed. Therefore the result shown the usage of Cupric Sulfate with Vaseline is better than Phyto ointment because working with heifer is dangerous and have various risk factors.

Keywords: Dermatophytosis, Cupric Sulfate, Phyto ointment, Heifer