

Veterinary World 1(9): 261-264

## Acute Clinically Mastitic Animals in villages of Assiut Governance: Diagnosis and Treatment

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### Abstract

This investigation was run in some villages in Assiut governorate during summer 2007 to diagnose acute clinical mastitis in different animal species and to apply different lines of treatment for evaluating which treatment line of choice giving cure, aiming to another goal by preventing the conversion of acute mastitis towards the chronic one which is difficult to be treated and the dairy animal will be excluded. Therefore, 2150 animals were clinically examined in 5 villages located north to Assiut city, Egypt, including 400 cows, 950 ewes and 800 she goats, and the incidence of acute clinical mastitis was 22.50%, 2.63% and 4.63%, respectively. Milk samples were collected from all clinically mastitic cows for bacteriological examination to identify the causative agents of the intra-mammary infection (IMI). It was found the major causative agents isolated were *Staphylococcus aureus*, *Streptococcus agalactiae*, *Escherichia coli* and *Corynebacterium pyogenes*, causing either single or mixed type of infection. When applying different lines of treatment, all diseased animals were classified into 3 groups: 1st group received local treatment by intra-mammary infusion antibiotic. 2nd group received systematic treatment by intra-muscular (I/M) injection of both antibiotic and anti-inflammatory drugs. While, 3rd group received combination of both local and systematic treatment lines together. Cure% was achieved as 50% for 1st group, 90% for 2nd group, while 3rd group gave complete cure by 100%. It was noticed that the incidence of acute clinical mastitis among examined cows was worrisome and can be considered as indicator of the epidemiology of the disease. While, spreading of the disease among ewes and she goats was somewhat low in comparison with that of cows. In conclusion, combination of both local and systematic treatment lines together should be advised in treatment of acute clinical mastitis to ensure complete cure. The obtained results highlighted the focus towards the spreading of acute clinical mastitis among cows lived in some Assiut governorate villages.

Key words: Acute clinical mastitis, Cows, Ewes, She goats, Intra-mammary infection (IMI).