



# Treatment of bovine acarodermatitis with oral ivermectin solution

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**D**ermatitis caused by acari or mites is known as 'acarodermatitis'. Mites, which produce skin lesions in cattle mainly, are *Sarcoptes* and *Demodex* species. Sarcoptic mange causes severe itching dermatitis. Mites of *Demodex* species infest hair follicles of all species of domestic animals. Mange infection causes economic loss by way of excessive itchiness and also loss in hide quality. Rarely death losses also occur

owing to the invasion of secondary bacterial infection and accompanying fatal septicemia. Generally, therapy is undertaken utilizing acaricidal preparations externally. The drugs utilised are helpful to a variable degree and also possess some degree of toxicity to the mammalian host (Radostits et al, 1994). Ivermectin is a safe drug and possess higher degree of activity against wide variety of ectoparasites including mangemites. Hence a pilot clinical trial was conducted to study the efficacy of Itin on acarodermatitis.

## Clinical cases and Lesions:

The clinical trial was conducted on eight crossbred bovines (calves & cows) suffering from mange/mite infestation. The distribution pattern of skin lesions and treatment particulars are given below. Oral

S. No.	Animal	Lesions	Weight (kg)	Total dose of ivermectin (ml)	No. of doses for clinical recovery
1	H.F. Calf (Demodex)	Shoulders, sides of neck, Thick & wrinkled	50	10	2
2	Jersey heifer (Sarcoptes)	Sides of neck Thick & wrinkled skin	150	30	1
3	Jersey cow (Sarcoptes)	Alopecia, thickened skin, sides of neck	200	40	2
4	H. F. Cow (Demodex)	Thickened skin, sides of neck and flank	200	40	1
5	H.F. cow (Demodex)	Shoulder & neck mainly, generalised diffuse lesions	200	40	2
6	Jersey calf (Sarcoptes)	Sides of neck, tail	75	15	1
7	H.F. Cow (Sarcoptes)	Sides of neck, dewlap, brisket	150	30	2
8	Jersey cow (Demodex)	Shoulders, sides of neck	150	30	1

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