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Hyperimmune bovine colostrum neutralizes *Cryptosporidium* sporozoites and protects mice against oocyst challenge. *J Parasitol* 1989, 75:151-153. 29. Fayer R, Andrews C, Ungar BLP, et al: Efficacy of hyperimmune bovine colostrum for prophylaxis of cryptosporidiosis in neonatal calves. *J Parasitol* 1989, 75:393-397. 30. Perryman LE, Riggs MW, Mason PH, et al: Kinetics of *Cryptosporidium parvum* sporozoite neutralization by monoclonal antibodies, immune bovine serum, and immune bovine colostrum. *Infect Immun* 1990 58:257-259. 31. Fayer R, Tilley M, Upton SJ, et al: Production and preparation of hyperimmune bovine colostrum for passive immunotherapy of cryptosporidiosis. *J Protozool* 1991, 38:38S-39S. 32. Riggs MW, Cama VA, Leary HL, et al: Bovine antibody against *Cryptosporidium parvum* elicits a circumsporozoite precipitate-like reaction and has immunotherapeutic effect against persistent cryptosporidiosis in SCID mice. *Infect Immun* 1994, 62:1927-1939. 33. Harp JA, Goff JP: Protection of calves with a vaccine against *Cryptosporidium parvum*. *J Parasitol* 1995, 81:54-57. 34. Naciri M, Mancassola R, Reperant JM, et al: Treatment of experimental ovine cryptosporidiosis with ovine or bovine hyperimmune colostrum. *Vet Parasitol* 1994, 53:173-190. 35. Cama VA, Sterling CR: Hyperimmune hens as a novel source of anti-*Cryptosporidium* antibodies suitable for passive immune transfer. *J Protozool* 1991, 38:42S

Abstract

Use of composite milk samples for diagnosis of *Staphylococcus aureus* mastitis in dairy cattle

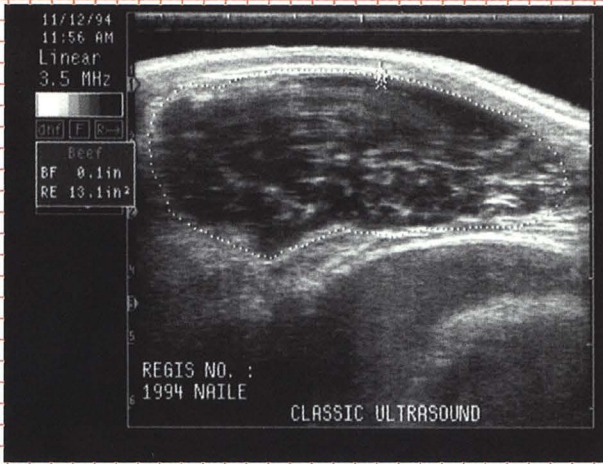
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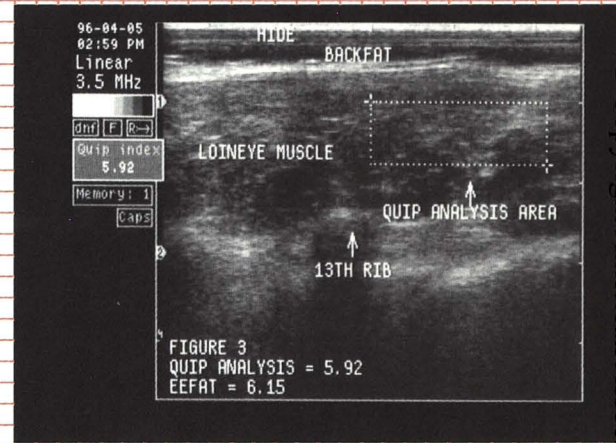
Reliability of use of composite milk samples for diagnosis of intramammary *Staphylococcus aureus* infections in dairy cattle was compared with that of individual gland samples. Microbiologic culturing of composite and individual gland milk samples collected from cows suspected of having subclinical mastitis revealed a relative sensitivity of 0.63 for composite samples, with relative specificity of 0.98. Factors influencing the relative sensitivity of composite samples

were the number of infected glands per cow, the amount of *S aureus* shedding from infected glands, and the proportion of the composite sample obtained from each gland. If 3 consecutive samples had been collected in 95% of the cows with at least 1 infected gland, *S aureus* would have been found in at least 1 of the 3 composite samples. Increasing the inoculum volume from composite samples from 0.01 to 0.05 ml increased the relative sensitivity.

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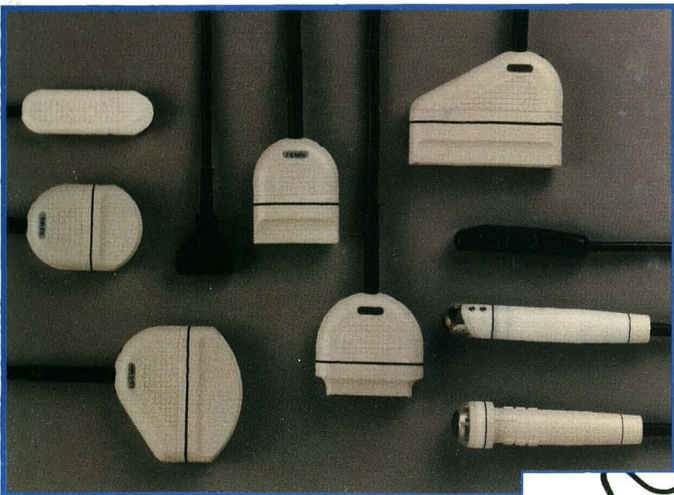
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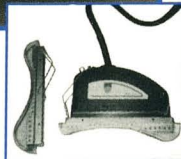
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