

Of 564 strains of bacteria isolated from cases of clinical mastitis between 1967 and 1971, approx. 50% were either *Staphylococcus aureus* or *Streptococcus* spp., 30% were Gram-negative bacilli (mainly *Escherichia coli* and *Klebsiella* spp.) and 20% were *Corynebacterium* spp. There were 45 mixed infections involving 2 organisms and 6 involving 3. In a survey of subclinical mastitis, milk samples were taken from (i) 203 cows in 11 herds with more than or equal to 10 cows and from (ii) 76 cows in 61 herds with <10 cows. Incidence of CMT-positive cows was (i) 47 and (ii) 55%. Bacteriological examination of 64 samples showed no growth for 27, whilst *Streptococcus* spp. were isolated from 14, *Staph. aureus* from 3, *Escherichia coli* from 3 and *Corynebacterium* spp. from 7. No significant differences between breeds (Friesian, Guernsey, Jersey, Ayrshire) were found, and since only 2 herds were machine-milked no conclusions could be drawn on this effect.