An outbreak of infectious bovine keratoconjunctivitis in a dairy cattle herd in the Southern of Minas Gerais/Brazil is described. About 50% of animals in a herd of 180 heifers aged from 18 to 24 months were affected. Blepharospasm and excessive tearing were the most common clinical signs. There were also corneal opacity and blindness provoked by corneal ulceration in some animals. The determining factors of the outbreak age, young animals from different herds in a system of high density and inadequate therapy.

*Moraxella bovis* was isolated from ocular swabs. The control of the disease was conducted by the isolation of sick animals and treatment with ocular ointment containing cefoperazone associated with the long-term action oxytetracycline by intramuscular route. An autogenous bacterin was manufactured by using *M. bovis* recovered from the herd and used for the prevention of keratoconjunctivitis.