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| **Prevalence of *Buxtonella sulcata* in neonatal and young calves in Al-Nasir station and two regions in Baghdad(Al-Shu'la and Gazalia) .** | Research Title  |
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| Neonatal diarrhea of calves is a major cause of economic loss in rearing young calves . *Buxtonella sulcata* may be a potential cause of diarrhea in these animals .This study aimed to investigate the prevalence of *B. sulcata* infection and its role in diarrhea in neonatal and young calves .A total of 250 fecal samples were collected from calves (110 male and 140 female , ages ranged 1-30 day , among which 98 had diarrhea). Two laboratory tests were used to detect *B. sulcata* cysts and trophozoites in fecal samples which are direct wet film method and ether-formalin sedimentation method .The overall rate of infection was 43.2% . There is a significant difference in the rate and intensity of infection between calves with and without diarrhea . Calves over 10 day old had higher rate of infection than calves under 10 day old with significant difference .*Buxtonella sulcata* may be a potential cause diarrhea in neonatal and young calves when there is suitable conditions in the intestinal lumen that promote the parasite multiplication . | Abstract |