



### **Investigation of *Cryptosporidium* and *Giardia lamblia* infection with trials of treatment in sheep and goats at the Al-Mashroa district, Babylon province**

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**Abstract :** The current study was conducted during the period from September 2013 till August 2014 to investigate the percentage of infection for *Giardia lamblia* and *Cryptosporidium* sp. in sheep and goats and try to treat the project area in the province of Babylon . The number of samples examined a sample of 85 of the stool sheep and goats, some suffering diarrhea and other ostensibly intact and ages between 15 days to more than a year. Incidence of parasite *Cryptosporidium* sp. reached 13.33 % in sheep and goats in 12%, while the incidence of parasite *Giardia lamblia* to 3.33 % in sheep and goats in 8% Is not recognized trophozoites developed for *Giardia* in this study. Infection rate was highest in the age group from 15 days up to 3 months for the parasite *Cryptosporidium* sp. and more than 3 months to 6 months for the parasite *Giardia lamblia* in sheep and goats respectively. Examination showed that the highest prevalence of the disease in animals suffering from diarrhea compared with no infected outwardly and large . And that the infection rate was higher in the winter compared to the rest of the seasons of the year and that attempts to therapy conducted on animals infected *Cryptosporidium* sp. using some antibiotics explained that Alparomyomsin sulfate 100 mg / kg of body weight for a period of three to five days is the most effect comparing antibiotic Other, as well as Attempts by various anti-worms that were conducted on some infected animals with *Giardia* that Alfenbandasole 50 mg / kg of body weight for three to five days is the most effective compared to other antibiotics used in therapy. Where treatment has led to the disappearance of symptoms, And improve the health status of infected animals. This is the first study that sheds light on the extent of parasite *Giardia lamblia* and *Cryptosporidium* sp. presence in sheep and goats in the project area in the province of Babylon, where each of the parasite *Cryptosporidium* sp. of epidemic and *Giardia* important for lambs and young infected goats them naturally, and is likely to be lambs and young infected goats and pot infection rate of *Giardia lamblia* and *Cryptosporidium* sp. for other animals as well as human in this region.