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(-)

% , *Triodontophorus spp.* % *Strongylus spp.*
Dictyocaulus % *Parascaris equorum* % , *Trichostrongylus axei* % , (Cyathostomins)
Gastrodiscus % , *Oxyuris equi* % *Habronema musca* % *Strongyloides westeri* % , *arnfieldi*
.% % , *Dicrocoelium spp.* spp
% , % , %
% , %
(P<0.05) (P<0.05) (P<0.01)
(P<0.05) (P<0.01)

Clinical and hematological study of the internal parasites in native donkeys in Mosul city

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Abstract

The study was included 70 native donkeys at age 3-4 years, 60 animals naturally infected with gastrointestinal parasite and 10 clinically normal served as control group. Coprological examinations revealed that the donkeys were infected with Nematodes such as Large strongyles *Strongylus spp.* 70%, *Triodontophorus spp.* 36.6%, Smallstrongyles (cyathostomines) 33.3%, *Trichostrongylus axei* 33.3%, *Parascaris equorum* 20%, *Dictyocaulus arnfieldi* 13.3%, *Strongyloides westeri* 10%, *Habronema musca* 10%, *Oxyuris equi* 6.6% and Trematode Worm *Gastrodiscus spp.*, *Dicrocoelium spp.* 3.3%. The rate of a single infection was 20% and mixed infection was 80%. Diagnoses was based on the measurement and the characteristic shapes of eggs and larvae. Results indicate that diseased donkeys exhibited emaciation 30%, rough coat 68.3%, pale mucous membranes 60%, Pica 53.3%, colic 68.3%, moist ralse 6.6%. Significant decrease (P<0.05) were encountered in the RBC_s count (P<0.01) and Hb and PCV values of infected donkeys compared with control, while there were significant increase at (P<0.05) in WBC_s and eosinophils at (P<0.01).

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Total leukocytic count

Total erythrocyte count

Packed cell (Hb) Hemoglobin
(PCV) volume

Standard error

Mean

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Microsoft, Ver. 15.0,) SPSS

T- test

(USA

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.(P<0.01) (P<0.05)

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Strongylus spp., *Triodontophorus spp.*

% , %

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Cyathostomins spp.

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% , *Trichostrongylus axei*

Parascaris

()

Dictyocaulus

%

equorum

% ,

arnfieldi

(-)

Strongyloides westeri

%

Habronema muscae

% , *Oxyuris equi*

Dicrocoelium spp. *Gastrodiscus spp*

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% ,

%

%

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Trichostrongylus axei

) *Parascaris equorum*

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) *Strongyloides westeri*

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Strongylus ()

(

) *Gastrodiscus spp*

() *spp*

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% ,

%

%

% ,

% ,

Coulter counter (Automatic digital cell counter)
/ Beckman

(-)



Trichostrongylus axei :



Parascaris equorum :

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%

Strongylus spp.

Triodontophorus spp.

Small strongyles (Cyathostomins)

Trichostrongylus axei

Parascaris equorum

Dictyocaulus arnfieldi

Strongyloides westeri

Habronema muscae

Oxyuris equi

Gastrodiscus spp.

Dicrocoelium spp.

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%

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(P<0.05)

(P<0.01)

.()

(P<0.05)

granulocyte

.() (P<0.01)

%

(-)

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Strongylus vulgaris

% %

Trichostrongylus

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% , *axei*

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% ,

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Habronema muscae

() %

%

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Parascaris equorum

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%

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() % ,

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% ,
() %

()

P. equorum

P. equorum

Strongyles

Strongyloides

%

westeri

% -

()

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% ,

()

Triodontophorus % , *Strongylus spp.* %

spp.

% ,

% ,

()

%

()

% ,

(-)

(-)

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Strongylus spp.

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Oxyuris equi

() % ,

() %

% ()

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% %

Dictyocaulus arnfieldi

() % ,

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.% ,

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% , *Gastrodiscus spp*

% , , % ()

.% , ()

% , *Dicrocoelium spp*

.% , ()

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Strongylus vulgaris

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Parascaris equorum

Dictyocaulus arnfieldi

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- Parascaris*
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