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Summary

This study conducted to explore the effect of *Cyperus rotundus* L. on growth and development of protoscolces in the liver tissue of swiss white mice infected with protoscolces of *Echinococcus granulosus* collected from hydatid cysts of sheep.

Study include four groups (n = 10 each) 1 st group considered control negative, 2nd control positive (infected with protoscolces only) 3rd & 4th group treated with *Cyperus rotundus* L. dose (0.5 mg / kg body weight) + protoscolces of *Echinococcus granulosus*.

Results of this study showed presence of histopathological changes in liver tissue represented by granuloma with presence of structureless hydatid cysts in some sections, on the other hand sever fatty changes, vacuoler degeneration focci, cuffening of mononuclear inflammatory cells, focal area of coagulative necrosis in addition to hemosiderine & bilirubine pigmentation have been seen.

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Hydatid disease

Cystic echinococcosis

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Metacestode

() *Echinococcus granulosus*

Infectious

() granuloma

Immunomodulation

() Puckweed

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Cyperus rotundus L.

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0.9-0.5

1

D-Fructose % 41.7

D-Glucose

%

() % 9.3

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() Riore et al

:

Smyth& Baret

() Smyth

2500-2000

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() (Ip) Intraperitoneal cavity

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30

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30-25

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(IP)

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2500-

2000

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(
(1/ 0.5)
6 ()

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(
(1/ 0.5)
9

72 % 10 2-1
% 100 90 70
6-4

.(21)

:Gross pathological changes

Hepatomegaly Spleenomegaly
Variable sizes of white focal necrosis

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% 100

: Histopathological changes

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Fatty change
bilirubine

Vacuolar degeneration
haemosiderine

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.() Ali& Salih () Ali

() () Ali-Khan

() Alkarmi &Behbehani

.()Ali

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Perivascular Lymphocytic cuffing

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Pyknosis

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Granulomatous lesions

Necrotic

center

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BCG

() Thompson *et al*

T. taeniaeformis

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()

() Reuben *et al*

BCG

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Solanumnigruml

(Batsch,1786) *Echinococcus granulosus*

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Cyperus rotundus Linn

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Thymus vulgaris Linn

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Echinococcus granulosus

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Cyperus rotundus

Thymus vulngaris Linn

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Linn

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Echinococcus granulosus

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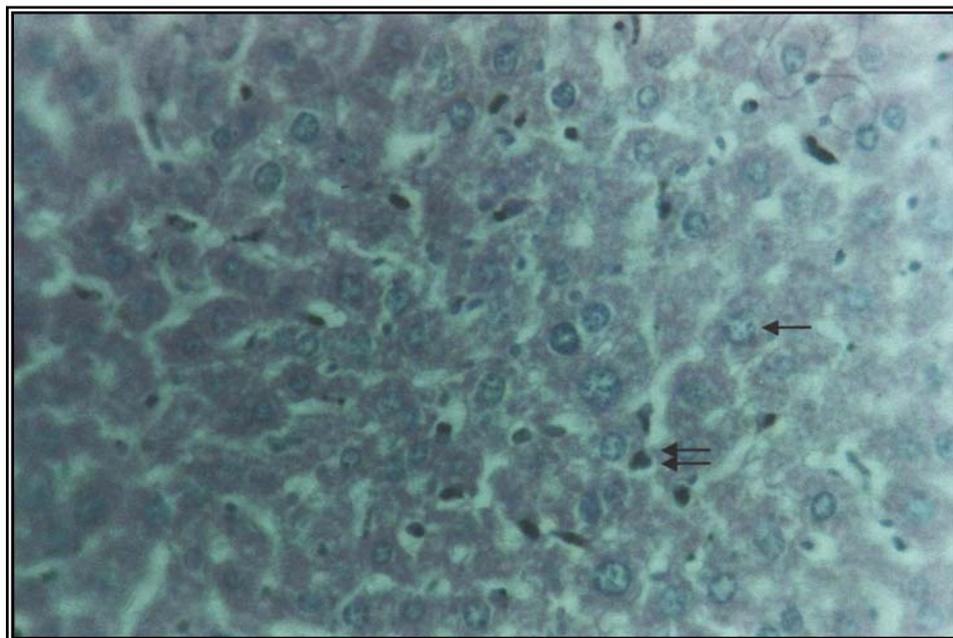
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Echinococcus

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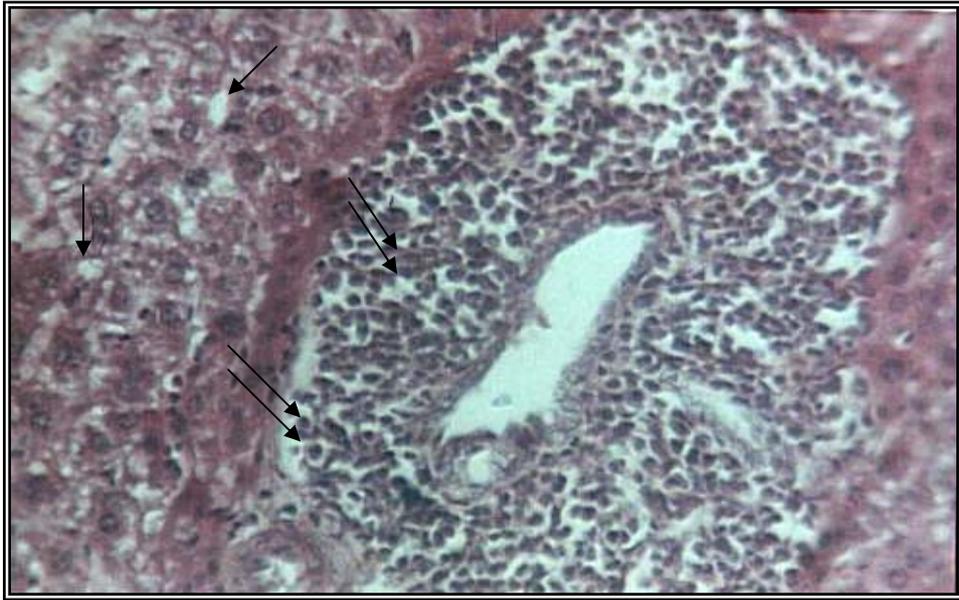
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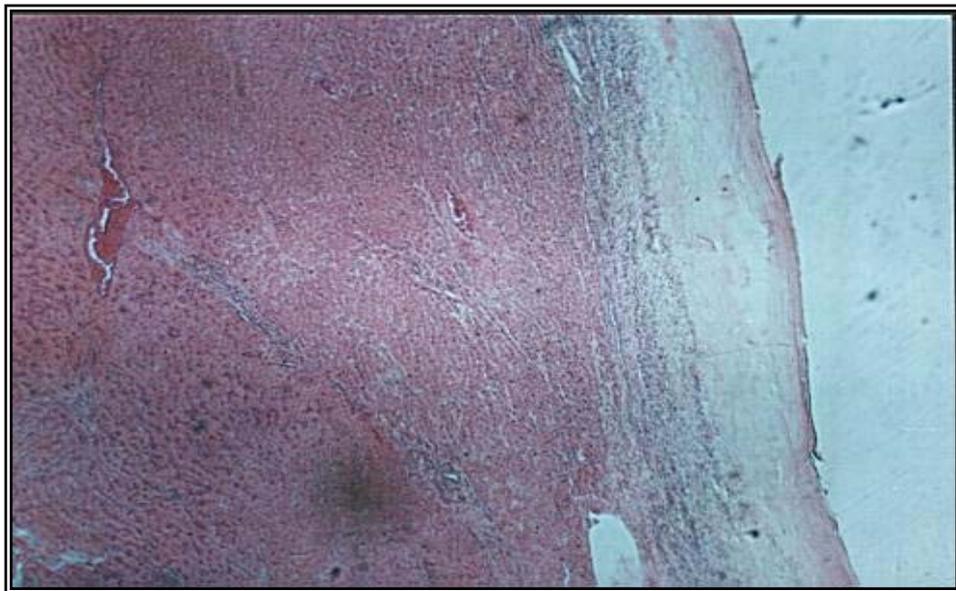
H&E 400X (←→)



:(2)

H&E 400 X (↙)

(⇔)

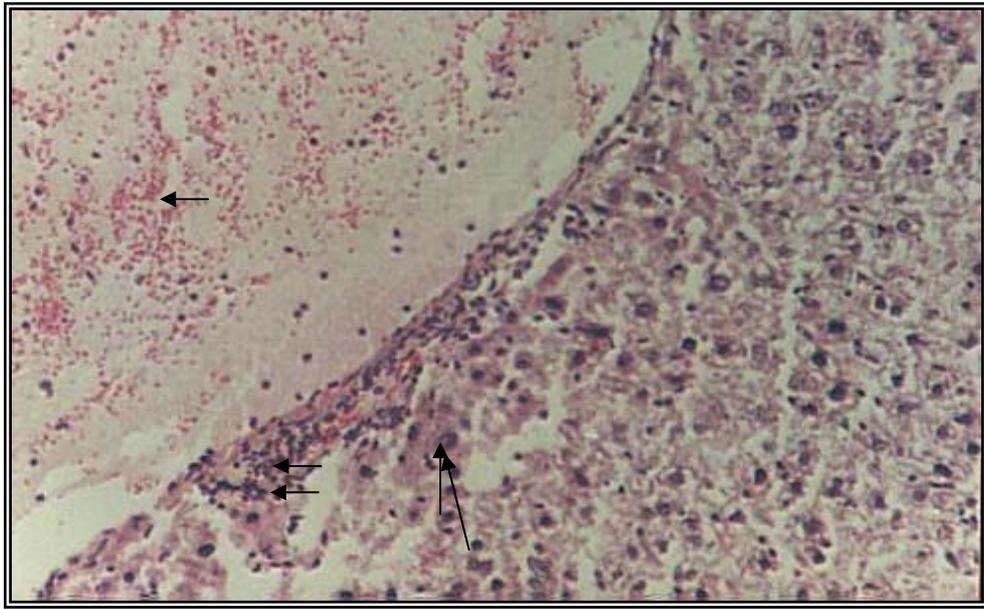


:(3)

H&E 100 X. ()

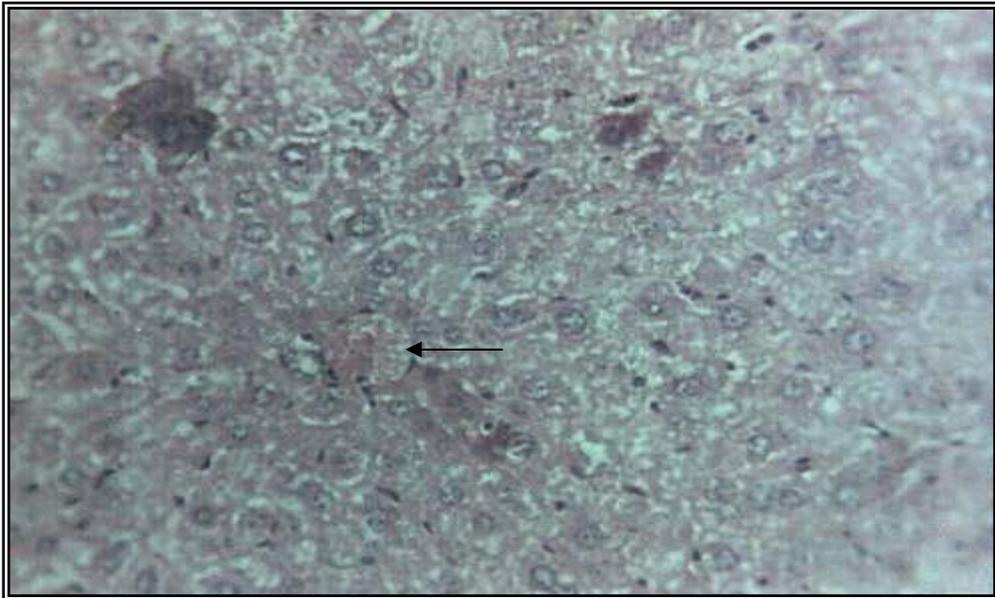
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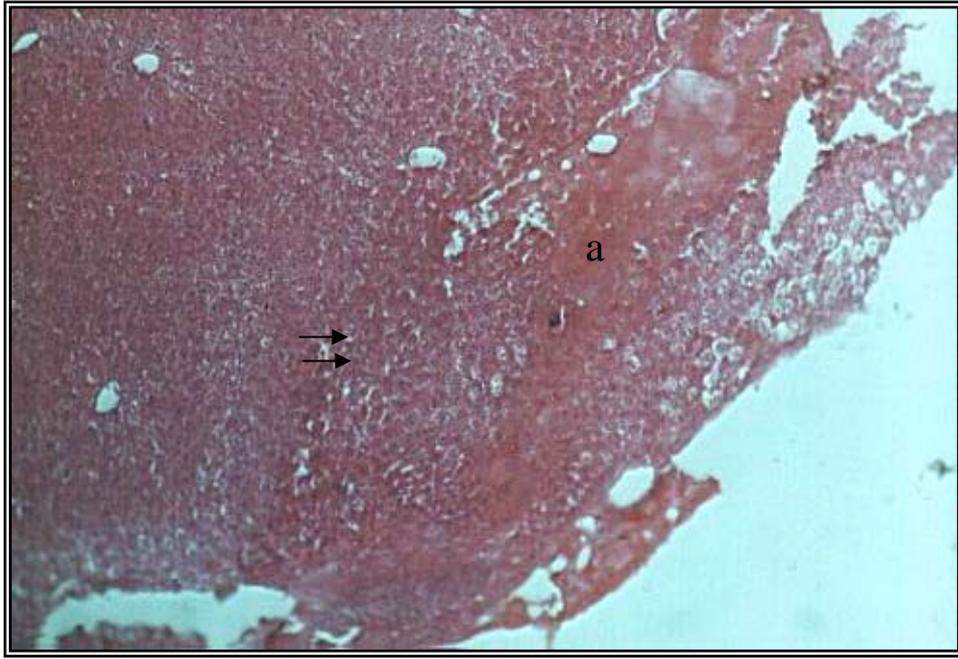
6 (/ 0.5) : (4)

(←)
H&E 240 X (↑) (⇔)



9 / 0.5) : (5)

H&E 400 X (←)



9 (/ 0.5) (6)

(⇔)

H&E 100X (a)



(/ 0.5) :(7)

9

H&E 100X (⇔)

(↗)