

(2002/11/6 2001/12/11)

% 15 %10

%3 %2 %1

%10 -

The Effect of Four Chemicals as Scolicides on The Hydatid Cyst of *Echinococcus granulosus* in Vivo

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ABSTRACT

Four chemicals were compared for their in vivo scolicial action upon the hydatid scolices of *Echinococcus granulosus* both in intact cysts and after injection into albino mice. These chemicals are acetic acid, tartaric acid, ethyl alcohol and povidine-iodine. It could be concluded that acetic acid(1%, 2% and 3%), tartaric acid (10 % and 15 %), povidine-iodine (10%) are good scolicides and may be recommended for use in surgical operations, because after treatment of the scolices with these chemicals in the above concentrations, no secondary hydatid cysts were developed in the albinon mice.

(Andersen et al., 1997)

Echinococcus granulosus

Definitive hosts

.

Andersen et al., 1997; Goldsmith and)

.(Heyneman, 1989

(WHO, 1997; Cakmakci and Sayek, 1992; Horton, 1989)

Precutaneous drainage

.

.% 95

%10

.(Meymerian et al., 1963)

Intact cyst

-

.(Rahemo and Al-Hammo, 2000)

.....

: -1

Intracystic pressure (5-3) %90 <

Semispherical shape
(Aktan and Yalin, 1996; Frayha et al., 1981)

Beaker

.
%10 %5 .

.
10 5
.

: -2

10

10 10

.Positive control

7.2

%70

Hydatid fluid

/ 1000

2000 .(Smyth and Barrett, 1980)

.(Waynforth, 1980) 21 G

1

: -3

100

. /

: -4

ANOVA

SPSS

Z

Duncan test

table

.(1984)

: -1

%1

5

.(1)

%3 %2

%5 %1

5

.

.% 15

%10

10

%20

%30

5

%10

-

.%40

10

5 1

.

(Rahemo and Al-Hammo)

.

.....

%10

%3 %2 %1

%40

%15

p< 0.05

% 30

%.%20

:1

/

:			Conc. %	Scolicides
10	5	1		
0	0	0.6	%1	
0	0	0	%2	
0	0	0	%3	
47.3	55.3	65.4	%1	
26.6	32.3	37.6	%5	
0	0	0.3	%10	
0	0	0	%15	
6.9	16.4	18.4	%20	
0	0	0.3	%30	
0	0	0	%40	
0	32.6	53.3	%10	-

-2

:

.Positive control

%100

%90<

p<0.001

z

p,0.05

%1

p<0.001

%15

%10

%5

%30-%5

%.%15 %10

%5

%10

-

p<0.01

%0

.(1997)

Landa-Garcia

%30 %20

%.%10 %20

%40

10

.

.

.

-

.(Katzung, 1998)

.1999

.365-360 1

.1984

.79-74

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