

Rattus norvegicus

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40

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(G1)

Rattus norvegicus

(Cont.

(G2)

(G3)

(Na,K)

(G3,G2)

(P<0.05)

(Cont)

(G1)

(Cont.)

(G1)

(G3,G2)

(G1)

(G3,G2)

(Na,K)

(P<0.05)

(Cont.)

.(G3)

(G2)

.(Cont)

(G1)

(Na,K)

**The physiological effects of *Graecum. trigonellfoenum*
seed and *Zea. Mays* (corn fiber) that use to
treatment experimental acute renal failure
in laboratory rats *Rattus norvegicus***

M. H.M. Al-Sarry and K. J.S. Al-Karishy

***Pathology department , Veterinary college , Basra University**

**** Physiology department , Veterinary college , Basra University**

Summary

The design of this study to Physiological compared of two kind of common description and use of medical plants from medical plants clinicians to the people suffer from urine retention and renal pain. These two plants resemble as *Graecum. trigonellfoenum* seed and corn fiber .40expermente white rat was used and divided in to four equal groups as follow, control group(Cont.)injected with Physiology solution and treated with tape water orally,(G1) group with acute renal failure induced by injecting glycerol and without treatment ,(G2) group with acute renal failure induced by injecting glycerol and treated with *Graecum trigonellfoenum* seed boiling solution orally,(G3)group with acute renal failure induced by injecting glycerol and treated with boiling corn fiber solution orally. Creatinin, Urea nitrogen, levels in blood plasma were estimated and the results show significant decreased in Creatinin levels in(G2)and(G3)groups compared with(G1)group and show significant decreased in Urea nitrogen levels in(G2) and(G3) groups compared with (G1) group and significant decreased in Na;K ions levels in(G2) and(G3) groups compared with(G1)group also there is significant differences between(G2) andG3 in above estimated parameters.

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.(1987,

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，
.(1988,)
Zea.mays
(1996,)*Graecum. trigonellafoenum*
(Marsh,1999)
(Bruneton,1995)
，
(1988,)
Fabaceae Leguminosa Fablales
50 80
，
23
(1988,)
Securigera secriidaca
，
24

...

.(1988,)
Mucilage
Diosaganin Saponin ,
,
.(Gupta, et.al.1986a; Gupta, et.al., 1986b.; Hardman&Fazil, 1991.)

,
, %28.91
Choline , , , ,
Trichoniline
.(Opdyke,1989;Marsh,1988) " "
%5.8 Sharma(1996) ; Stark & Madre (1986)
,
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,
,
, 10
20
, 500 100 15
Bruneton(1995); Bown Leung and Foster, 1996) .(Duke, 1997;
20 (1995)
.
.(1999,)

1995 (Bijliani)

Chronic renal failure

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.(Vancura&Chang, 1989)

Acute renal failure

.(Dowborn, 1986)

Rattus norvegicus

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10

220-200

, (G1) (G3)

(Cont.)

(G2)

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8

. (Okada, et.al., 1997)(\ 1.1)

\ 5 %50

0.5

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6

; 6

()

150

500\ 50

6

0.5

, 6

150

500\ 100

(\ 1.1)

\ 5

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6-5

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1

,

.(1986,

)(ANOVA)

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(P<0.05) (1)
 G1 (G3,G2)
 ,G2 (G3) (P<0.05)
 (P<0.05) (P<0.05) (2)
 (G1) (G3,G2)
) G2 (G3)
 , (G3) (P>0.05)
 (Na,K) (P<0.05) (4,3)
 (P<0.05) (G1) (G3,G2)
 (G2) (G3)
 (G3) (P>0.05)
 (Na,K) ,
 (G1)

, Haemoglobineuria()

Hematin emboli
 Brenner&Lazarus,1988,Ayer,1971)

.(Okada,1997;
 (Na,K)

.(Rose,1985)

ATP

(Martini , Ganong,1993)

.et.al.1998

.(Breazile et.al., 1981 1998 Martini;et.al., 1998)

—

(Guyton,1981)

% 99

.(Geerin et.al., 1985)

.(Guyton,1981)

.(Tietz,1980)

(G2)

(G3)

(Na,K)

(G1)

(G3,G2)

(Na,K)

(Na,K)

(G3,G2)

(Mersalyl&Abiole)

(Caffeine)

.(Jacob,1996 ;Ali,1995)

(1981,)

Xanthenes

pigment

(G3)

(Ganong,1993 1988,)

(G2)

.

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(1)					
6	4	2		2	
0.57±0.16 a	0.53±0.18 a	0.58±0.16 a	0.55±0.04 a	0.58±0.04 a	Cont.
1.31±0.32 b	1.28±0.24 b	2.36±0.47b	1.46±0.25 b	0.59±0.03 a	G1
1.06±0.23 c	1.23±0.29 b	1.94±0.32 c	1.42±0.28 b	0.57±0.04 a	G2
0.96±0.17 d	1.15±0.26 c	1.73±0.33 d	1.46±0.25 b	0.59±0.06 a	G3

SE ± - *

%5 - **

(2)					
6	4	2		2	
44.24± 6.3a	44.6 ±6.9a	42.43± 5.6a	41.65 ±4.9a	43.13± 5.2a	Cont.
120.3± 14.7b	128.1± 13.7b	263.1± 19.7b	271 ±22.1b	44.27± 4.8a	G1
63.61± 8.4c	63.42± 8.6c	140.3±13.7c	277 ±19.7b	41.86± 3.3a	G2
46.52± 5.1a	71.91± 10.3d	143.3± 14.1c	274 ±24.6b	43.43± 4.2a	G3

± - *

%5 - **SE

(3)

1

6	4	2		2	
132.6 ±10.3a	130.2±11.7a	131.5 8.2a	128 ±7.5a	132.8±8.7a	Cont.
142.4 ±12.1b	140.6± 13b	140.8 ±11.3b	143± 9.3b	133.3±8.4a	G1
113.9± 8.6c	115.1± 9.5c	111.6± 9.6c	148 ±11.7b	133.1±8.2a	G2
129.3± 8.9a	126 ±10.7a	131.8 ±10.4a	143 10.3b	131.8±8.3a	G3

SE

±

* -

%5

- **

(4)

1

6	4	2		2	
4.57± 0.13a	4.57± 0.24a	4.58± 0.13a	4.34 ±0.10a	4.55 ±0.09a	Cont.
5.45± 0.41b	5.44 ±0.36b	5.49± 0.26b	5.98± 0.21b	4.53± 0.08a	G1
4.21± 0.11c	4.12± 0.16c	4.25± 0.14c	5.93± 0.19b	4.56± 0.08a	G2
4.49±0.16a	4.53± 0.22a	4.21± 0.11c	5.98± 0.24b	4.52± 0.06a	G3

SE

±

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%5

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