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## Effect of Daonil in Combination With Paracetamol Or Oxytetracycline in Glucose and Cholesterol Levels in Blood of Rats

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### ABSTRACT

The effect of daonil and its combination with Paracetamol or oxytetracycline in glucose and cholesterol levels in blood of normal and alloxan induced diabetic rats were investigated. Diabetes induced by injection of (100 mg/Kg body weight) of alloxan . Daonil ( 1mg/Kg body Weight) showed reduction in the level of glucose in normal and diabetic rats. Neither combination of daonil with paracetamol nor with oxytetracycline showed significant change in the hypoglycemic effect of daonil in normal and diabetic rats. Treatment with daonil caused significant decrease in cholesterol level in diabetic rats, but not in normal rats, while combination of daonil with oxytetracycline caused significant reduction in cholesterol level in normal rats, but not in diabetic rats. Combination of daonil with Paracetamol showed non significant effect in cholesterol level in normal and diabetic rats.

In conclusion the results of this study revealed, a beneficial effect of daonil treatment in insulin dependent diabetes mellitus, and its activity not affected by its combination with paracetamol or oxytetracycline.

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(Rydberg et al., 1994)

Ca<sup>+</sup>

K<sup>+</sup>

(Groop, 1992)

.(Gregorio et al., 1992)

(Jonsson et al., 2000)

(Tayek, 1995)

.(Muller et al., 1994)

(Khedun et al., 1993)

(Blakytny and Harding, 1992)

.(Jaya et al., 1995)

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.(Benzo, 1987)

(357-205) (8-6) Wistar

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BDH limited, )

48 ( / 100) (poole, England

.(Katsumata and Katsumata, 1990)

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(8-6)

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.(Atta et al., 1983)

( / 1) .3

) ( / 300)

(

.(Price and Jollow, 1982)

( / 1) .4

Tetroxy-LA,Bimeda ) ( / 100)

.(Mckellar, 1989) (Chemical Export,Ireland

12

(Randox Kit) 5 2

.(Biomerieux Kit)

Duncan

(P< 0.05) test

(p<0.05)

5 2

.(1 )

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5	2		
• 1.6 ± 67	1.4 ± 70	3.3 ± 75	
• 2.5 ± 40	• 3.9 ± 35		
• 2.5 ± 34	• 2.0 ± 29		+
• 2.1 ± 43	• 2.5 ± 48		+

±

.(p<0.05)

(p<0.05)

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5 2

.(2 )

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:2

( 100 / )

5	2		
• 14.4 ± 433	• 15.7 ± 448	16.6 ± 458	
• 6.2 ± 385	• 6.7 ± 402		
• 5.5 ± 361	• 5.8 ± 377		+
• 8.7 ± 370	• 8.9 ± 387		+

±

.(p<0.05)

(p<0.05)

\*

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5 2

5

.(3 )

:3

( 100 / )

5	2		
• 1.2 ± 50	• 2.1 ± 55	3.6 ± 57	
• 2.4 ± 56	• 2.1 ± 59		
• 1.5 ± 61	• 1.6 ± 29		+
• 2.1 ± 49	• 2.1 ± 53		+

±

.(p<0.05)

(p<0.05)

\*

5 2  
2  
(4 )

:4

( 100 / )

5	2		
• 1.3 ± 95	2.4 ± 98	2.3 ± 1.5	
• 3.1 ± 90	• 2.9 ± 94		
• 3.4 ± 93	3.1 ± 97		+
• 3.6 ± 89	• 3.4 ± 92		+

(p<0.05)

±

(p<0.05)

\*

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(Tessier et al, 1994)

.(Tayek, 1995)

.(Suh et al, 1993)

( glucose T4 2- deoxyglucose transport)

.(Muller et al, 1994) (glycerol 3- phosphate amytransferase glycogen synhase)

.(Blakytny and Harding, 1992)

.(Hiatt and Bonorris, 1970)

:

.(Muller et al, 1994)

.(Jaya et al, 1995)

.(Paolettl and Fumagalli, 1971)

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