



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



شبكة المعلومات الجامعية التوثيق الالكتروني والميكرو فيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

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Study of the effect of combined
antischistosomal drugs on different
strains of *S. mansoni* infected
albino mice

By

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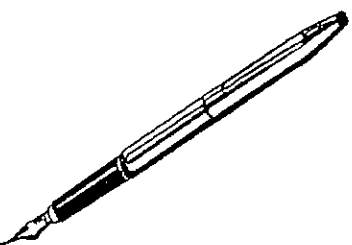
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Thanks God ...



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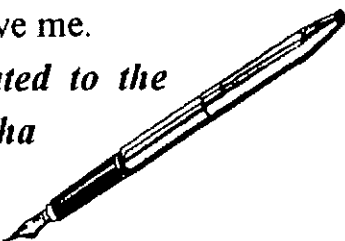
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*This PHD thesis is dedicated to the
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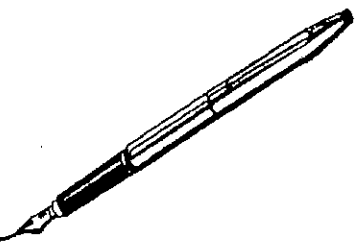


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Abstract

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Study of the effect of combined antischistosomal drugs on different strains of *S.mansoni* infected albino mice .Unpublished Doctor of Philosophy , Zoology , College for girls , Ain Shams University, 1998 .

This work was undertaken to study the possible additive or synergistic effect of both praziquantel and Ro 15-5458 on praziquantel susceptible and non-susceptible strains of *S.mansoni* infected albino mice . Groups of mice were infected with 100 *S.mansoni* cercariae^{of} praziquantel susceptible and non-susceptible strains (CD susceptible , So₄ , So₅ , Mo₃ and EE₂ resistant strains). Treatment was done after six weeks post – infection with full dose of PZQ , full dose of Ro 15-5458 , one third doses of the same drugs alone or combined . All previous groups together with infected and untreated controls were sacrificed two weeks post-treatment . The following studies were done : worm distribution , Oogram, Ova count and histopathological examination of liver sections . The use of reduced low doses of PZQ and Ro 15-5458 concurrently led to a synergistic activity in albino mice infected with susceptible and resistant Egyptian strains of *S.mansoni* . Combination therapy was more powerful than the effect of PZQ or Ro 15-5458 alone . In most resistant strains the cure rate was increased by using combination therapy .

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List of Abbreviations

C	Couples
Ca⁺⁺	Calcium ion
CO.	Company
F	Female
Kg	Kilogram
M	Mean number
Ma	Male
Mg	Milligram
No.	Number
PZQ	Praziquante/
SE	Standard error
S.m.	<u>Schistosoma manson</u> i

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