

Molluscicide Control of Snail Vectors of Schistosomiasis

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A review of the methodology recommended by the World Health Organization for the use of molluscicides for the control of snail vectors of schistosomiasis is presented. Discussion of the principle molluscicides used, their advantages and disadvantages, the techniques and equipment required for their application and evaluation of effect as well as the biological control of snails is included.

Key words: schistosomiasis mansonii - control - snail vectors - molluscicide

Schistosomiasis or Bilharziasis is a complex of helminthic infections that affect man. Some 200 million individuals in 74 tropical countries are infected (Iarotski & Davis 1981, WHO 1985, Sleight & Mott 1986).

Five species of *Schistosoma*, *S. japonicum*, *S. mansoni*, *S. haematobium*, *S. intercalatum* and *S. mekongi* which are taxonomically and epidemiologically distinct, utilize one or more species of intermediate snail host parasite thousands of individuals. The first three species listed are of greatest medical importance and the latter two have a restricted distribution in regions of Africa and around the Mekong river in South East Asia respectively.

Snail control by means of molluscicides is today considered an auxiliary method within integrated control of schistosomiasis (Mc Cullough 1992).

The Expert Committee of the WHO (1985) listed three phases in the control of schistosomiasis: (1) *Planning*: collection of epidemiological data, organization of a national plan of action and allocation of resources for the program; (2) *Intervention-attack*: a period of active intervention operations are intense and continually evaluated. This phase results in a rapid reduction of prevalence; (3) *Maintenance*: maintenance is then required in many situations.

THE OBJECTIVES OF SNAIL CONTROL BY MOLLUSCIDE APPLICATION

The inclusion of the definition of objectives in control programs is essential. According to Mc Cullough (1992) the principle objectives are: (a) to contribute, preferentially in combination with chemotherapy and other measures, to the significant reduction of the transmission of schistosomiasis through the destruction intermediate host populations, principally infected snails, in habitats selected during peak transmission. The reduction recommended by Mc Cullough (1992) is 95% and this level should

be maintained during the period of peak transmission; (b) the destruction of the snails in a number of breeding sites that contribute significantly in increasing the population density in neighboring foci; (c) prevention of transmission in tourist areas; (d) to achieve a community involvement in the activities associated with transmission control; (e) to drastically reduce the intensity of transmission in sites used for high risk occupations such as fishing and agriculture; (f) to prevent the introduction of new potential vectors; (g) in certain types of habitats to totally eliminate snails in order to prevent the risk of transmission; (h) to avoid whenever possible the establishment of new breeding colonies in new irrigation systems.

ADVANTAGES AND DISADVANTAGES OF THE USE OF MOLLUSCICIDES

In general the advantages of the selective use of molluscicides in control operations are: (a) interruption of transmission; (b) the desirable but not essential involvement of the community; (c) reasonable efficiency and cost; (d) simple equipment that can also be used in the control of other vectors; (e) although good supervision is essential the methods of application are general simple and do not require specialized operational schemes; (f) the selection of foci where application is required can usually be based on the patterns of water usage of the population; (g) low toxicity for man and other animals; (h) health education programs are used to reinforce the results achieved.

The disadvantages are: (a) the need for repeated applications since snail eradication is difficult; (b) the implementation and evaluation of control is time consuming; (c) the effect on schistosomal morbidity, even when snail control are efficient and in the absence of chemotherapy, is delayed; (d) the technical capacity required to decide appropriate application procedures in view of the great variation in transmission sites.

Molluscicides In Schistosomiasis Control

**Special Programme for Research and
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Molluscicides in Schistosomiasis Control Thomas Clement Cheng,1974 **Parasitic Diseases** Max J. Miller,Edgar Love,1989-05-31 Based on papers presented at the XI International Congress for Tropical Medicine and Malaria this publication provides an authoritative evaluation of treatment and control of helminth parasite infections A section on leprosy and a brief review of malaria vaccination are included A comprehensive review of the history of schistosomiasis control programs presents information unavailable elsewhere This book is of special interest to professionals concerned with health problems of less developed countries and in particular to public health officials epidemiologists and clinicians dealing with patients in or returning from the tropics Field Use of Molluscicides in Schistosomiasis Control Programmes ,2017

Controlled Release Technologies Agis F. Kydonieus,2019-07-17 First Published in 1985 this book offers comprehensive insight into the process of administering chemical ingredients Carefully compiled and filled with a vast repertoire of notes diagrams and references this book serves as a useful reference for students of pharmacology and other practitioners in their respective fields **Manson's Tropical Diseases** Gordon Charles Cook,Alimuddin Zumla,2009-01-01 Providing the latest coverage on emerging and re emerging diseases from around the world such as tuberculosis and malaria this updated guide contains boxes and tables that highlight key information on current therapies This edition includes online access for more information Controlled Release Technologies Agis F. Kydonieus,2022-07-30 First Published in 1985 this set offers comprehensive insight into the process of administering chemical ingredients Carefully compiled and filled with a vast repertoire of notes diagrams and references this book serves as a useful reference for students of pharmacology and other practitioners in their respective fields *Controlled Release Pesticides Formulations* Nathan F. Cardarelli,2018-01-17 The main goal of this book is to present a summary of the state of the art historical background Conventional chemical pest control methods are mentioned only as a means of comparison to controlled release Research endeavour with biological weapons potential usage of such controls and the few instances of success are likewise brought into focus with the same motive Formulations and methods of preparing controlled release pesticides are discussed in some detail as concerns the antifouling and molluscicide areas where the compounding methodology has been well developed The mathematical basis of controlled release has been developed to an extent and is presented in an abbreviated form *The Toxicology of Molluscicides* Gerald Webbe,1987 The past decades have seen the implementation of numerous programmes for the eradication of molluscs due mainly to their involvement as vectors of human parasitic diseases These programmes have involved the use of vast quantities of molluscicides and have resulted in many unwanted side effects This volume of the International Encyclopedia of Pharmacology and Therapeutics brings together reviews on the major molluscicides in current use Each review outlines all the physicochemical toxicological and pharmacological properties as well as detailing the effects on all the other major organisms that they are likely to come into contact with In bringing together all this information in one

volume this book will enable the use of molluscicides to be better controlled and far more effective whilst preventing the serious ecological damage often associated with such programmes **Plant Molluscicides** Special Programme for Research and Training in Tropical Diseases. Scientific Working Group on Plant Molluscicides, 1987-11-13 The role that molluscicides can play in the control of schistosomiasis has been well established Economic constraints and the rising cost of synthetic chemicals in endemic countries make plants an attractive alternative source of molluscicides For the first time the present and potential roles of plant molluscicides screening methods problems of evaluation needs in the field of toxicology and methods of breeding selection and cultivation of plants are reviewed Guidelines for research in plant molluscicides are reported *Weed Control Methods for Public Health Applications* E.O. Gangstad, 2018-05-04 This volume includes measures of control of aquatic vegetation that harms human health since water related diseases exist in this environment Although malaria has receded internationally due to the combined chemotherapeutic insecticidal programs recently it has resisted both medicines and insecticide control Active malaria cases in the U S were fewer than a dozen before the Vietnam War but in 1973 the figure was about 700 almost all traceable to returning military personnel The disease could again become prevalent Other diseases exist whose transmission is indirectly affected by aquatic weed conditions including filariasis and various trematodiasis especially from the schistosomes Chinese liver fluke cattle liver fluke Guinea worm giant intestinal fluke Asiatic lung fluke and broad tapeworm Waterweeds also support disease pest arthropods i.e. snipe flies tabanids horse gad deer and greenheads Clear Lake gnats Mayflies black flies sandflies and sewage flies Ecosystem studies of impounded water research and development of herbivorous fish and utilization of herbivorous fish in China are also included in this volume *Schistosomiasis* Peter Jordan, 1985-11-07 Schistosomiasis is a disease affecting over 200 million people in developing countries It is caused by worms that need particular species of fresh water snails for completing their life cycle and developments in Third World countries have spread and increased the severity of the disease Dr Jordan describes a 15 year study on St Lucia a mountainous Caribbean Island where isolated valleys provided ideal field laboratories for comparing the effects on transmission the advantages and disadvantages of intensive snail control environmental improvement providing villages with water and chemotherapy with newly available drugs The project was staffed by a multidisciplinary team and their intensive programme led to successful control This book describes the investigation fully and readably It will be valuable to all who work in the fields of tropical medicine parasitology epidemiology community and environmental health and vital to workers on schistosomiasis control in developing countries [Index-catalogue of Medical and Veterinary Zoology](#), 1976 **Index-catalogue of Medical and Veterinary Zoology** Dorothy B. Segal, 1982 **Controlled Release of Pesticides and Pharmaceuticals** D. H. Lewis, 2013-06-29 [Molluscicides in Schistosomiasis Control](#) Thomas Clement Cheng, 1974 [Advances in Trematode Biology](#) Bernard Fried, Thaddeus K. Graczyk, 2024-11-01 Trematodology the study of a class of medically important parasitic flat bodied worms has made significant advances over the past ten years The

tremendous amount of information accumulated from research discoveries and technical developments related to trematode biology makes this book a timely and necessary part of the literature. *Advances in Trematode Biology* presents a thorough treatment of modern trematodology including principles and practices. With coverage of background material as well as modern methods, *Advances in Trematode Biology* updates researchers, practitioners and students with new information in immunology, biochemistry, physiology and molecular biology. *Advances in Trematode Biology* includes practical information on parasitological techniques emphasizing species of medical and veterinary importance, a key reference for parasitologists, biologists, medical and veterinary personnel. The excellent presentation of material including well organized tables and chapters make *Advances in Trematode Biology* easy to use both as a textbook and as a reference. **Snail Transmitted**

Parasitic Diseases Emile A. Malek, 2018-05-04 Research on snail transmitted disease has continued at a considerable pace during the last twenty years and several investigators have made valuable contributions to our knowledge of these diseases. The objective of this book is to present an up to date account of the infections or diseases of the world which are transmitted by snails and in which each disease is considered in much greater detail than is usually provided by textbooks on general medical or veterinary parasitology. These two volumes cover the infections or diseases that are caused by certain helminths which are transmitted by snails. *Freshwater Snails Of Africa And Their Medical Importance* David S Brown, 2002-09-11

The first half of this book is primarily a systematic survey of the snails beginning with glossaries, keys for identification to genera and a checklist of species. This is followed by a synopsis of species with brief notes on ecology, distribution and parasites. Relationships are then described between snails and schistosomes and with other parasites. The book goes on to consider the factors affecting snail populations and possible methods for population control. *Bioactive Polymeric Systems*

Charles G. Gebelein, Charles E. Carraher, 2012-12-06 The vast array of libraries in the world bear mute witness to the truth of the 3000 year old observation of King Solomon who stated of making many books there is no end and much study is a weariness of the flesh. Yet books are an essential written record of our lives and the progress of science and humanity. Here is another book to add to this huge collection but hopefully not just another collection of pages but rather a book with a specific purpose to aid in alleviating the weariness of the flesh that could arise from much studying of other journals and books in order to obtain the basic information contained herein. This book is about polymeric materials and biological activity as the title notes. Polymeric materials in the broad view taken here would include not only synthetic polymers e.g. polyethylene, polyvinyl chloride, polyesters, polyamides etc but also the natural macromolecules e.g. proteins, nucleic acids, polysaccharides which compose natural tissues in humans, animals and plants. In the broad sense used here biological activity is any type of such action whether it be in medication, pest control, plant growth regulation and so on. In short this book attempts to consider briefly the use of any type of polymeric material system with essentially any kind of biological activity. *Health and Development* Iris Borowy, Bernard Harris, 2023-01-30 Health and development require one another there can be no

development without a critical mass of people who are sufficiently healthy to do whatever it takes for development to occur and people cannot be healthy without societal developments that enable standards of health to be maintained or improved. However, the ways in which health and development interact are complex and contested. This volume unites eleven case studies from nine countries in three continents and two international organizations since the late nineteenth century. Collectively, they show how different actors have struggled to reconcile the sometimes contradictory nature of health and development policies and the subordination of these policies to a range of political objectives.

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