

# Assessment of the safety and efficacy of different drugs and drug combinations in children infected with schistosomes

<b>Submission date</b> 27/04/2015	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
<b>Registration date</b> 19/07/2015	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 17/08/2023	<b>Condition category</b> Infections and Infestations	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

### Background and study aims

Schistosomiasis is an infection caused by parasites that live in fresh water in subtropical and tropical regions of the world. There are six species of schistosomes; *S. mansoni*, *S. japonicum* and *S. haematobium* are the most common. Each year around 230 million people are infected with schistosomes, and around 11,000 people die from the infection. Schistosomiasis can become a persistent chronic disorder in areas with high infection rates, which results in common disabling complications such as anaemia, stunted growth, slow mental development and decreased fitness. The aim of this study is to test how well 4 different drugs work to cure the infection and reduce the number of schistosomes eggs in an infected person's body. We will be testing how well moxidectin, Synriam® and a Synriam®-praziquantel combination work against schistosome infections compared to taking praziquantel alone. This study will also be testing how safe the drugs are for school children, how effective moxidectin, Synriam® and Synriam®/praziquantel combination are against possible co-infections (*Ascaris lumbricoides*, *Trichuris trichiura*, hookworm, *Strongyloides stercoralis*) and how effective Synriam® is against malaria infection.

### Who can participate?

Children infected with schistosomes.

### What does the study involve?

Participants are randomly allocated into one of four groups. Those in group 1 (intervention group) are given the drug moxidectin. Those in group 2 (intervention group) are given the drug Synriam®. Those in group 3 (intervention group) are given the drug combination Synriam® and praziquantel. Those in group 4 (intervention group) are given the drug praziquantel. Participants are asked to give urine and stool samples, and a finger prick blood test at the start of the study, then again 3 and 6 weeks after treatment. The medical history of participants is assessed using a questionnaire, and a clinical examination is carried out by the study physician on the day of treatment. There are interviews before treatment, then 2, 24, 48 and 72 hours after treatment.

### What are the possible benefits and risks of participating?

All participants have a free diagnosis for intestinal parasitic infection and malaria infection. All

are treated and, if not cured by the drug provided, treated with the currently recommended drug (albendazole and praziquantel and malaria treatment according to local guidelines). Risks are represented by side effects linked to the treatment.

Where is the study run from?

1. Centre Suisse de Recherches Scientifiques (CSRS) (Côte d'Ivoire)
2. University Felix Houphouet Boigny (Université Félix Houphouët Boigny (UFHB)) (Côte d'Ivoire)

When is the study starting and how long is it expected to run for?

May 2015 to October 2015

Who is funding the study?

Rudolf Geigy Foundation (Switzerland)

Who is the main contact?

Prof J Keiser

## Contact information

**Type(s)**

Scientific

**Contact name**

Prof Jennifer Keiser

**Contact details**

Socinstrasse 57

Basel

Switzerland

4002

## Additional identifiers

**Protocol serial number**

01

## Study information

**Scientific Title**

Assessment of the safety and efficacy of oral Moxidectin, Synriam®, Synriam®-Praziquantel combination versus Praziquantel in school children infected with *Schistosoma haematobium* and *Schistosoma mansoni*

**Study objectives**

The aim of this study is to assess the efficacy of Moxidectin and Synriam in treating schistosomes.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

1. Nordwest und Zentralschweiz Ethics Committee (Ethikkommission Nordwest und Zentralschweiz EKNZ) ref: EKNZ UBE-15/01, 12/01/2015
2. National Ethics & Research Committee (Comite National d'Ethique et de la Recherche CNER) 16./06/2015

**Study design**

Randomised controlled phase 2 single blind trial

**Primary study design**

Interventional

**Study type(s)**

Treatment

**Health condition(s) or problem(s) studied**

Schistosomiasis

**Interventions**

This study has four treatment arms - Two stool samples (study 1), three urine samples (study 2) and one blood finger prick sample will be collected if possible on two consecutive days or otherwise within a maximum of 5 days):

1. Moxidectin 8 mg single dose
2. Synriam® 150 mg (arterolane + 750 piperazine) for three consecutive days
3. Synriam® 150 mg (arterolane + 750 piperazine) for three consecutive days + praziquantel 40 mg/kg single dose
4. Praziquantel 40 mg/kg single dose

**Intervention Type**

Drug

**Phase**

Phase II

**Drug/device/biological/vaccine name(s)**

Moxidectin, Synriam (arterolane + piperazine), Praziquantel

**Primary outcome(s)**

Efficacy: cure and egg reduction rate of *S. mansoni* and *S. haematobium*

**Key secondary outcome(s)**

1. Drug safety
2. Cure and egg reduction rate against possible co-infections (*Ascaris lumbricoides*, *Trichuris trichiura*, hookworm *Strongyloides stercoralis*)
3. To determine the efficacy of Synriam® against malaria infection

**Completion date**

01/10/2015

**Eligibility**

**Key inclusion criteria**

1. Written informed consent signed by parents and/or legal guardian, and oral assent by children
2. Able and willing to be examined by a study physician at the beginning of the study
3. Able and willing to provide two stool samples, three urine samples and one finger prick test at baseline and approximately three weeks after treatment (follow-up)
4. Positive for *S. mansoni* or *S. haematobium* eggs in the stool and/or in urine
5. Absence of major systemic illnesses (e.g. cancer, diabetes, clinical malaria or hepato-splenic schistosomiasis) as assessed by a medical doctor, upon initial clinical assessment
6. No known or reported history of chronic illness, e.g. cancer, diabetes, chronic heart, liver or renal disease
7. No anthelmintic or antimalarial treatments within past 4 weeks
8. No known allergy to study medications

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Child

**Sex**

All

**Key exclusion criteria**

1. No written informed consent by parents and/or legal guardian
2. Presence of any abnormal medical condition, judged by the study physician.
3. History of acute or severe chronic disease such as cancer, diabetes, chronic heart, liver or renal disease
4. Recent use of anthelmintic or antimalarial drugs (within past 4 weeks)
5. Attending other clinical trials during the study
6. Negative diagnostic result for *S. mansoni* or *S. haematobium* (absence of helminth eggs in stool/urine)

**Date of first enrolment**

04/05/2015

**Date of final enrolment**

15/05/2015

**Locations****Countries of recruitment**

Côte d'Ivoire

**Study participating centre**

**Centre Suisse de Recherches Scientifiques (CSRS) (Côte d'Ivoire)**

Niangon Sud

Côte d'Ivoire

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**Study participating centre**

**University Felix Houphouet Boigny (Université Félix Houphouët Boigny (UFHB)) (Côte d'Ivoire)**

Abidjan

Côte d'Ivoire

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## Sponsor information

**Organisation**

Geigy Foundation

**Organisation**

European Research Council

## Funder(s)

**Funder type**

Research organisation

**Funder Name**

Rudolf Geigy Foundation (Switzerland)

## Results and Publications

**Individual participant data (IPD) sharing plan**

**IPD sharing plan summary**

Not expected to be made available

**Study outputs**

**Output type**

**Details**  
results

**Date created** **Date added** **Peer reviewed?** **Patient-facing?**

<a href="#">Results article</a>		16/09/2016		Yes	No
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes
<a href="#">Protocol (other)</a>		16/09/2016	17/08/2023	No	No