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

Submission date	Recruitment status	[_] Pro
27/04/2015	No longer recruiting	[X] Pr
Registration date	Overall study status	[] Sta
19/07/2015	Completed	[X] Re
Last Edited 17/08/2023	Condition category Infections and Infestations	[] Inc

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- dividual 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 praziguantel alone. This study will also be testing how safe the drugs are for school children, how effective moxidectin, Synriam® and Synriam®/praziguantel 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

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers 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)

 Nordwest und Zentralschweiz Ethics Committee (Ethikkommission Nordwest und Zentralschweiz EKNZ) ref: EKNZ UBE-15/01, 12/01/2015
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

Secondary study design Randomised controlled trial

Study setting(s)

School

Study type(s)

Treatment

Participant information sheet

Not available in web format, please use contact details to request a participant information sheet.

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 piperaquine) for three consecutive days

3. Synriam® 150 mg (arterolane + 750 piperaquine) 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 + piperaquine), Praziquantel

Primary outcome measure

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

Secondary outcome measures

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

Overall study start date

04/05/2015

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 baselin 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 anthelminthic or antimalarial treatments within past 4 weeks

8. No known allergy to study medications

Participant type(s)

Patient

Age group

Child

Sex

Both

Target number of participants

240

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 anthelminthic 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

Study participating centre University Felix Houphouet Boigny (Université Félix Houphouët Boigny (UFHB)) (Côte d'Ivoire) Abidjan Côte d'Ivoire

Sponsor information

Organisation Geigy Foundation

Sponsor details

Socinstrasse 59 Basel Switzerland 4002

Sponsor type Research organisation **Organisation** European Research Council

Sponsor details

Covent Garden Place Charles Rogier 16 1210 Saint-Josse-ten-Noode Brussels Belgium 1210

Sponsor type Research council

Funder(s)

Funder type Research organisation

Funder Name Rudolf Geigy Foundation (Switzerland)

Results and Publications

Publication and dissemination plan One manuscript will be submitted to a scientific journal by the end of 2015.

Intention to publish date 31/12/2015

Individual participant data (IPD) sharing plan

IPD sharing plan summary Not expected to be made available

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<u>Results article</u>	results	16/09/2016		Yes	No
<u>Protocol (other)</u>		16/09/2016	17/08/2023	Νο	No