

# Prevalence of Adverse Drug Reactions and Associated Factors to Antiretroviral Therapy among HIV-Positive Patients at Ndola Teaching Hospital, Zambia

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## Supplementary

### Appendix 1: Budget

| Activity/ item                  | Unit measure  | Unit price (k) | Quantity | Cost (k) |
|---------------------------------|---------------|----------------|----------|----------|
| Pens                            | Each          | 2              | 5        | 10       |
| Rim of paper                    | Each          | 70             | 2        | 140      |
| Transport                       | Each day      | 30             | 10       | 300      |
| Meal allowance                  | Each day      | 20             | 10       | 200      |
| Meal allowance for 2 assistants | Each day      | 30             | 10       | 300      |
| Printing of proposal            | Each page     | 3              | 25       | 75       |
| Binding proposal                | Each document | 25             | 1        | 25       |
| Printing and binding report     | Each copy     | 150            | 1        | 150      |
| TOTAL                           |               |                |          | 1200     |

**Table 1.** Budget.

## Appendix 2: Work plan and time frame

The project was done in 25 weeks, in 2022. Data was collected between 8 and 16 hours during the data collection period.

| Weeks task                             | 1-2 | 3-4 | 5-8 | 9-12 | 13-16 | 17-19 | 20 | 21 | 22-25 |
|--|-----|-----|-----|------|-------|-------|----|----|-------|
| Data collection                        |     |     |     |      |       |       |    |    |       |
| Data compilation                       |     |     |     |      |       |       |    |    |       |
| Data analysis                          |     |     |     |      |       |       |    |    |       |
| Report writing                         |     |     |     |      |       |       |    |    |       |
| Submission of a draft report           |     |     |     |      |       |       |    |    |       |
| Editing and submission of final report |     |     |     |      |       |       |    |    |       |

**Table 2.** Work plan and time frame.

## APPENDIX 3: INFORMATION SHEET

**Introduction:** My name is Kingswell Mavuka. I am a student at the Copperbelt University, School of Medicine. I am carrying out a study to determine the prevalence of adverse drug reactions and associated factors to antiretroviral therapy among HIV-positive patients at Ndola teaching hospital, Zambia.

**Purpose of the study:** The purpose of this study is to find out the prevalence of adverse drug reactions and associated factors to antiretroviral therapy among HIV-positive patients at Ndola, which could help health practitioners and scientists to come up with better ART regimens.

**Participation:** The study will involve HIV-positive patients using recorded data.

**Study procedure:** This will be a hospital-based retrospective cohort study that will involve records from January 2019 to January 2022. A total of 356 patient records will be selected using systemic random sampling. Data will be collected using a data collecting form and will be analyzed using SPSS software with the results categorized into frequency counts, bar charts, percentages, and/or tables.

**Confidentiality:** No names or contact information will be provided. The data provided will be completely confidential. The information that will be obtained in this study will not be disclosed at any cost or used for other purposes other than those specified for the research.

**Results:** The results of this study can be used to recommend better ART regimens with little or no adverse effects.

**Risks and benefits:** There are no risks that may arise from being a study participant. No benefits will be given for participating in this study but the information obtained will help raise awareness of the prevalence of ADRs to relevant authorities

Name: Kingswell Mavuka

Address: Copperbelt University, P.O BOX 21692

Email: Kmavuka@gmail.com

Tel: +260976331331

If you have any complaints about the study please contact the Secretary of the TDRC Ethics Review Committee at the following address

The Secretary

TDRC Ethics Reviews Committee

P.O Box 71769 Ndola

Email: [tdrc-ethics@tdrc.org.zm](mailto:tdrc-ethics@tdrc.org.zm) or [ethics.tdrc@gmail.com](mailto:ethics.tdrc@gmail.com)

Tel: +260 612837

#### Appendix 4: Consent form

My name is Kingswell Mavuka, a 5th-year medical student from The Copperbelt University, School of medicine from a research program established by the university's Department of Public Health and with permission from the school authorities. I am here to conduct a study on the prevalence of adverse drug reactions and associated factors to antiretroviral therapy at Ndola Teaching Hospital. Inferences made from this study can be used to come up with better antiretroviral therapy with little or no adverse drug reactions in the future.

All the information accessed will be handled as confidential and the results will only be used for academic purposes.

Do you have any questions? Thank you.

Officer-in-charge signature:.....

Investigator's signature:.....

Signature of witness: .....

Date: .....

#### Appendix 5: Data collection tool

| DATA ENTRYID | ART REGIMEN | AGE | GENDER | TIME FRAME (months) | ADRs |
|--------------|-------------|-----|--------|---------------------|------|
|              |             |     |        |                     |      |
|              |             |     |        |                     |      |
|              |             |     |        |                     |      |
|              |             |     |        |                     |      |
|              |             |     |        |                     |      |
|              |             |     |        |                     |      |
|              |             |     |        |                     |      |
|              |             |     |        |                     |      |
|              |             |     |        |                     |      |

**Table 15.** Data collection tool Data collection form.

TROPICAL DISEASES  
Tel/Fax +260212 615444  
P O Box 71769  
tdrc-ethics@tdrc.org.zm  
NDOLA, ZAMBIA



RESEARCH CENTRE

TDRC RESEARCH ETHICS COMMITTEE  
IRB REGISTRATION NUMBER : 00002911  
FWA NUMBER : 00003729

TRC/C4/08/2022  
15th August 2022

Kingswell Mavuka  
CBU School of Medicine  
NDOLA

Dear Kingswell

RE: **ETHICAL APPROVAL OF A PROTOCOL ENTITLED "THE PREVALENCE OF ADVERSE DRUG REACTIONS AND ASSOCIATED FACTORS TO ANTIRETROVIRAL THERAPY AMONG HIV POSITIVE PATIENTS AT NDOLA TEACHING HOSPITAL, NDOLA."**

Reference is made to your letter in which you submitted the above titled protocol for ethical review.

On behalf of the Chairperson of the TDRC Research Ethics Committee (REC), I wish to inform you that the Committee reviewed the protocol.

The Committee has noted that all ethical considerations have been well addressed. Therefore, I hereby write to inform you that ethical approval has been granted based on the following conditions:

Ensure that the methodology needs to be clear especially how specific objectives will be met

This approval is valid for the period **15<sup>th</sup> August 2022 to 14<sup>th</sup> August, 2023**.

You are now required to submit your protocol to the National Health Research Authority for final approval following the link: <https://www.nhra.org.zm> and submit a final report to the REC Secretariat at the end of the study.

The Committee wishes you success in the execution of the study.

Yours faithfully,

TROPICAL DISEASES RESEARCH CENTRE

Mr Sydney Mwanza  
DEPUTY SECRETARY – TDRC Ethics Review Committee



## Appendix 6: Ethical approval from tdrc

## Appendix 7: Permission from the copper belt provincial health office

All Correspondences should be addressed to the  
Provincial Health Director  
Telephone/Mobile No. +260861274/+260 978529175  
Email: copperbeltpho@gmail.com



REPUBLIC OF ZAMBIA  
MINISTRY OF HEALTH  
COPPERBELT PROVINCIAL HEALTH OFFICE

PWD Yard, Kabompo Road  
P.O. Box 70032,  
Kansenshi  
NDOLA

7<sup>th</sup> September, 2022

Mr. Kingswell Mavuka  
Copperbelt University,  
School of Medicine,  
P.O Box 71191  
NDOLA

Dear Mr. Mavuka,

**RE: REQUEST FOR PERMISSION TO CONDUCT RESEARCH**

Reference is made to your letter regarding the above captioned subject.

I am pleased to inform you that Management has favourably considered your request and has granted you permission to conduct the Research entitled: **"The Prevalence of Adverse Drugs Reactions and Associated factors to Antiretroviral Therapy Among HIV Positive patients at Ndola Teaching Hospital,"** Ndola, Copperbelt Province.

Kindly note that the data you will collect should not be used for any other purposes other than for academic purposes only and that you should adhere to all the preventive measures for COVID-19 and the guideline as provided for by TDRC Ethics Review Committee.

Share your findings with this office for our reference and information purposes.

I wish you a successful study.

Yours faithfully

**COPPERBELT PROVINCIAL HEALTH OFFICE**

Dr. Charles Mwinuna  
PROVINCIAL HEALTH DIRECTOR

12 SEP 2022

## Appendix 8: Permission from Ndola teaching hospital

All correspondence should be addressed to the  
Senior Medical Superintendent  
Ndola Teaching Hospital  
Postal Agency, Ndola  
Telephone: 611585-9  
Fax: 612204  
E-mail: ndolateachinghospital@gmail.com



REPUBLIC OF ZAMBIA  
MINISTRY OF HEALTH  
NDOLA TEACHING HOSPITAL

18<sup>th</sup> November, 2022

Dean  
The Copperbelt University  
Michael Chilufya Sata School of Medicine  
Ndola-Luanshya Road  
P.O Box 71191  
Ndola

Dear Sir/Madam,

**Re: Acceptance to Conduct Research Project at Ndola Teaching Hospital**

I wish to inform you that we have granted **KINGSWELL MAVUKA; Student No.17110783** permission to conduct a research project at Ndola Teaching Hospital. On the topic: **"The Prevalence of Adverse Drug Reactions and Associated Factors to Antiretroviral Therapy Among HIV Positive Patients at Ndola Teaching Hospital, Zambia"**.

Ndola Teaching Hospital embraces research activities from students and members of staff. Research enhances informed decision making at any organization. Hence, management demands that the findings of any research conducted at the hospital is shared. The student is mandated to submit the research proposal and the final report to Ndola Teaching Hospital Research Committee through the Planning department.

The student is hereby advised to uphold confidentiality in the chosen topic of study.

Joseph Musowoya FACS  
Senior Medical Superintendent  
Ndola Teaching Hospital

