Knowledge, Attitudes and Practices of Caregivers of Children With Sickle Cell Disease Towards Sickle Cell Disease At Kitwe Teaching Hospital, Kitwe Zambia.

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Received: 28 February, 2023, Manuscript No. JCRE-23-90318; **Editor assigned:** 03 March, 2023, PreQC No. JCRE-23-90318 (PQ); **Reviewed:** 20 March, 2023, QC No. JCRE-23-90318; **Revised:** 11 May, 2023, Manuscript No. JCRE-23-90318 (R); **Published:** 18 May, 2023, DOI: 10.37421/2795-6172.2023.7.200

Supplementary

Appendix 1: Information sheet

Dear respondent,

My name is Veronica Musonda, am at student at Michael Chilufya Sata, School of Medicine, Copperbelt University. Am currently pursuing a Bachelor's degree in Medicine and Surgery (MBChB). Therefore, in partial fulfilment of the requirements for the award of this degree, is carrying out a research entitled Knowledge, Attitude and Practices of care givers of children with sickle cell disease towards sickle cell disease at Kitwe teaching hospital in Kitwe, Zambia

This research seeks to find out what Knowledge, Attitude and Practices care givers of children with sickle cell disease have towards sickle cell disease at Kitwe teaching hospital. This will help provide information of how knowledgeable care givers are about sickle cell disease, what attitudes they have and the kind of practices they carry out as a contribution to the disease management. From the results which will be obtained, recommendations to implement measures that will help and improve the well-being of every child suffering from SCD with regards to home based healthy practices offered by caregivers will be made.

The information provided by the participant in the given questionnaire and interviews will be treated with uttermost confidentiality and shall strictly be used for academic purposes. No names or identification number will be required. Participation is voluntary and hence you are free to withdraw from the research at any point. No incentives will be awarded for participation. Your full participation will highly be appreciated.

Thank you.

For any queries, you can contact

Appendix 2: Consent form

Having read through the information form and understood the nature of the study provided by the researcher. I give consent to participate in the study because it is with clear understanding and recognition of:

1. Th	1. The objective of the study.				
2. M	2. My right to withdraw from the study at any stage of the study.				
Parti	cipant signature:Date:				
Rese	archer Signature Date				
Appen	dix 3: Questionnaire				
Secti	ion A				
Bio o	demographic data				
1. H	How old are you?				
a. 1	5-19 years []				
b. 2	0-24 years []				
c. 2	25-29 years []				
d. 3	0-34 years []				
e. 4	0 and above []				
2. V	What is your marital status				
a. S	Single []				
b. N	Married []				
c. I	Divorced []				
d. V	Vidowed []				
e. S	Separated []				
3. H	How many children do you have?				
a. 1	[]				
b. 2					
c. 3					
d. N	More than 3 []				
4. H	How many of your children have sickle cell disease?				
a. 1	[]				
b. 2					
c. 3					
d. N	More than 3 []				
Ο					

Section B

Social economic data

·	
a. never been to school []	
b. primary school []	
c. secondary school []	
d. college []	
e. university []	
6. Are you in formal employment?	
a. Yes []	
b. No []	
7. What is your occupation?	
1. Formal employment []	
2. Business person []	
3. Unemployed []	
8. How much is your family income per month?	
a. Above K3000 []	
b. K1000 to K3000 []	
c. K500 to K999 []	
d. Below k500 []	
9. Is your income adequate to take care of your sickle cell disease child at home?	
a. Yes []	
b. No []	
Section C	
Knowledge of caregivers of children with sickle cell disease on prevention of sickle	cell
crises.	
10. What is sickle cell disease?	
a. A common blood disorder []	
b. A genetic disease of the red blood cells []	
c. A bleeding disorder []	
11. What is sickle cell crises? (in your own words)	
12. What are the symptoms of sickle cell crises(tick the correct answer, you can more than one answer)	tick
a. Pain []	
b. Difficulties breathing []	

c. Diarrhoea []
d. Vomiting []
13. Are sickle cell crises preventable?
a. Yes []
b. No []
14. If yes to question 11, how do you prevent crises?
15. What are the predisposing factors to sickle cell crises?
(Tick correct answer)
a. Infection []
b. Exposure to cold []
c. Fever []
d. Doing activities demanding more oxygen []
e. Sleeping under mosquito net []
f. Dehydration []
16. What is the source of your information on sickle cell crises prevention? []
a. hospital []
b. books []
c. internet []
d. Others specify
17. If the source of your information was from the hospital staff, was the information
adequate? a. Yes []
b. No []
Section D
Practices of caregivers with children with sickle cell disease on prevention of sickle cell crises.
17. Do you prevent sickle cell crises before a child goes into a crisis?
a. Yes []
b. No []
18. How do you prevent sickle cell crises?
(Tick all correct answers)
a. Give child plenty of fluid? []
b. Feed the child nutritious food []
c. Ensure that the child sleeps under a treated mosquito net []

d. Give prophylactic drugs	[]				
e. Take a child to a traditional healer	[]				
f. Dress the child warm clothes	[]				
g. Restrict the child from doing exercises demanding more oxygen []					
Section E					
Social and cultural practices of care prevention of sickle cell crises	egivers with children with sickle cell disease on				
19. Are there any social and cultural which you know?	practices towards prevention of sickle cell crises				
a. Yes []					
b. No []					
20. If yes to question 20, what are som	e of these practices?				
·	d cultural practices mentioned in question 21?				
a. Yes []					
b. No []					
SECTION F					
Attitude of care givers towards preven	tion of sickle cell crises				
22. Are the preventive measures of spractice?	cickle cell crises very difficult for one to put into				
a. Yes []					
b. No []					
23. What do you do when a child falls	sick?				
(Tick the answer(s) of your choice)					
a. rush the child to the hospital					
b. call relatives for help []				
c. take the child for prayers []					
d. Stay at home []					
24. Have you ever felt that the child sl them?	ould just die because you are tired of taking care of				
a. Yes []					
b. No []					
practices of caregivers to children with si	ons can you give on how knowledge, attitudes and ckle cell disease towards sickle cell disease can be				

Table 5.1

Appendix 4: Budget

Description of item/fee	Amount (ZMK)	
Ethical clearance fee	500.00	
Pens	10.00	
Photocopying of questionnaire's/ consent forms	400.00	
Printing and binding of the project report	150.00	
Refreshments	400.00	
Transportation	400.00	
Miscellaneous	800.00	
Total	2260.00	

Table 5.2

Appendix 5: Time lines

Took to be performed		October-	November-	Ionuary march
Task to be performed	June-			January-march
	october	november	december	(2023)
	2022	2022	2022	
Submission of project				
topic				
Approval of research				
topic + handling in of				
project proposal				
Data collection				
Data entry				
Data analysis				
Data allarysis				
Report writing				
Submission of final				
research report				

Appendix 6: Ethical approval letter

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

RESEARCH CENTRE

TRC/C4/12/2022

22nd December, 2022

Veronica Taonga Musonda Principal Investigator Copperbelt University School of Medicine NDOLA

RE: ETHICAL APPROVAL OF STUDY PROTOCOL

Reference is made to the protocol entitled "Knowledge, attitudes and practices of caregivers of children with sickle cell disease towards sickle cell disease at Kitwe Teaching Hospital, Kitwe Zambia, TDREC/144/12/22"

On behalf of the Chairman of the TDRC Research Ethics Committee (REC), I am pleased to inform you that your protocol was reviewed and granted ethical approval based on the following conditions:

Ensure that you obtain permission from the Kitwe Teaching Hospital authorities prior to commencement of your research.

You are now required to submit your protocol to the NHRA for final approval following the link: https://www.nhra.org.zm. A final report to the study should be submitted to the REC Secretariat at the end of the study.

This approval is valid for the period, 22nd December 2022 to 21nd December 2023.

The Committee wishes you success in academic work and execution of the study

Yours faithfully, TROPICAL DISEASES RESEARCH CENTRE

Sydney Mwanza
DEPUTY SECRETARY – TDRC Ethics Review Committee

Appendix 7: Approval from national health research authourity.



NATIONAL HEALTH RESEARCH AUTHORITY

Lot No. 18961/M, off Kasama Road, Chalala, P.O. Box 30075, LUSAKA Tell: +260211 250309 | Email: znhrasec@nhra.org.zm | www.nhra.org.zm

Ref No: NHRA00005/8/02/2023

Date: 8th February, 2023

The Principal Investigator, Veronica Musonda, Copperbelt University, Ndola, Zambia.

Dear Ms. Musonda.

Re: Request for Ethical Clearance and Authority to Conduct Research

The National Health Research Authority is in receipt of your request for ethical clearance and authority to conduct research titled "Knowledge, Attitudes and Practices of Caregivers of Children with Sickle Cell Disease towards Sickle Cell Disease at Kitwe Teaching Hospital,

I wish to inform you that following submission of your request to the Authority, our review of the same and in view of the ethical clearance, this study has been approved on condition that:

- 1. The relevant Provincial and District Medical Officers where the study is being
- conducted are fully appraised;
 2. Progress updates are provided to NHRA bi-annually from the date of commencement of the study;
- 3. The final study report is cleared by the NHRA before any publication or dissemination within or outside the country;
- 4. After clearance for publication or dissemination by the NHRA, the final study report is shared with all relevant Provincial and District Directors of Health where the study was being conducted, University leadership, and all key respondents.

Yours faithfully,

NATIONAL HEALTH RESEARCH AUTHORITY

Prof. Victor Chalwe.

ACTING DIRECTOR/CHIEF EXECUTIVE OFFICER

Appendix 8: Permission letter from provincial health office.

PHO/CB/ 2/17/1

Health Director / Mebile No. +260861274/+260 978529175



MINISTRY OF HEALTH

COPPERBELT PROVINCIAL HEALTH OFFICE

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

6th January, 2023

Veronica Taonga Musonda Copperbelt University, School of Medicine, P.O Box 71191

Dear Musonda,

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: "Knowledge, attitudes and practices of caregivers of children with sickle cell disease towards sickle cell disease at Kitwe Teaching Hospital, Kitwe,

Kindly note that the data you will collect should not be used for any other purposes other than for academic purposes only.

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

C 9 JAN 2023

I wish you a successful study.

Yours faithfully

COPPERBELT PROVINCIAL HEALTH OFFICE INCOPICE

Dr. Christopher M Dube Public Health Specialist
For/PROVINCIAL HEALTH DIRECTOR

PROVINCIAL HEALTH DIRECTOR
P.O. SOX 10032 NDOLA
ECTOP

Appendix 9: Permission letter from Kitwe teaching hospital management.

26th January, 2023

Ms. Veronica Taonga Musonda Copperbelt University School of Medicine P O Box 71191 Ndola

REQUEST FOR PERMISSION TO CONDUCT A RESEARCH AT KITWE TEACHING HOSPITAL TITLED: "THE KNOWLEDGE ATTITUDES AND PRACTICES OF CAREGIVER OF CHILDREN WITH SICKLE CELL DISEASE TOWARDS SICKLE CELL DISEASE AT KITWE TEACHING HOSPITAL, RITWE".

I make reference to the above captioned subject and your letter dated 24m January, 2023 in which you requested for authority to conduct the titled study at the Kitwe Teaching Hospital. Be informed that the hospital management reviewed the protocol and all the approvals and has No Objection to you conducting the study at the institution.

Kindly share the findings of the study with the hospital community and keep us abreast at each stage of the study.

Wishing you all the best as you conduct the study

Dr. Victor Sichone
Head Clinical Care
KITWE TEACHING HOSPITAL

MEAD CLINICAL CARE

CC. file

CO. 60x 20008 KITWE

CO. 60x 20008 KITWE

CS CamScanner