

# Research survey

## Introduction

Hello! Our names are Magdalene Memory Lungu and Imam Adriansyah, we are second-year master's students at ITMO University in Russia working for a degree in public health sciences. This survey is part of our thesis study, which seeks to better understand how household-level community-based environmental management practices improve malaria prevention in Malawi.

Your participation is critical in providing us with useful insights regarding current practices, issues, and future improvements to malaria control measures. The information you submit will help us identify sustainable and scalable strategies to minimize mosquito breeding sites and malaria prevalence in local areas.

The survey is anonymous and takes about 5–10 minutes to complete. Your feedback is greatly appreciated!

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\* Indicates required question

## Section A: General information

1. How old are you? \*

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## 2. Gender \*

*Mark only one oval.*

☐ Male

☐ Female

## 3. What is your level of education? \*

*Mark only one oval.*

☐ Primary level

☐ Secondary level

☐ Higher education

☐ Other: \_\_\_\_\_

## 4. Marital status \*

*Mark only one oval.*

- ☐ Single
- ☐ Married
- ☐ Divorced
- ☐ Widowed
- ☐ Other: \_\_\_\_\_

## 5. How many people (adults and children) are there in your household? \*

\_\_\_\_\_

## 6. Occupation \*

*Mark only one oval.*

- ☐ Employed
- ☐ Unemployed
- ☐ Other: \_\_\_\_\_

7. Where do you live? \*

*Mark only one oval.*

☐ Urban area

☐ Rural area

8. How long have you lived in your current community? \*

*Mark only one oval.*

☐ Less than 1 year

☐ 1-5 years      *Skip to question 9*

☐ More than 5 years      *Skip to question 9*

### Section B: Knowledge about malaria.

9. Do you know the disease malaria? \*

*Mark only one oval.*

☐ Yes      *Skip to question 10*

☐ No

### Section B continued...

10. In the past year, have you or a member of your household been diagnosed with malaria? \*

*Mark only one oval.*

☐ Yes

☐ No

11. In the past year, how many cases of malaria were there in your household?

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12. In the past year, did you or the members of your household use any mosquito bite preventive measures? \*

*Mark only one oval.*

☐ Yes

☐ No

## 13. If yes, which measures did you use and how frequently?

*Mark only one oval per row.*

	Never	Rarely	Monthly	Weekly	Daily
<b>Sleeping under an insecticide treated net</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Insecticide sprays (e.g doom)</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Mosquito coils</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>House modification e.g putting up wire net on windows</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Section C: Knowledge about Mosquito breeding sites.**

Mosquitoes are the vectors of malaria, and they breed in places such as:

- Stagnant water
- Trash cans
- Swamps
- Thick grass
- Drainage channels
- Uncovered water storage containers

14. In the past year, have you observed any of the breeding sites around your home or community? \*

*Mark only one oval.*

☐ Yes      *Skip to question 15*

☐ No      *Skip to question 16*

Section C continued...

## 15. Which ones did you observe?

*Mark only one oval per row.*

	Yes	No
<b>Stagnant water</b>	<input type="radio"/>	<input type="radio"/>
<b>Trash cans</b>	<input type="radio"/>	<input type="radio"/>
<b>Swamps</b>	<input type="radio"/>	<input type="radio"/>
<b>Thick grass</b>	<input type="radio"/>	<input type="radio"/>
<b>Bushes</b>	<input type="radio"/>	<input type="radio"/>
<b>Drainage channels</b>	<input type="radio"/>	<input type="radio"/>
<b>Uncovered water storage containers</b>	<input type="radio"/>	<input type="radio"/>

**Section D: Household measures against mosquito breeding sites.**



Here are some of the effective household measures:

- Eliminating standing water
- Maintaining drainage systems used to direct rain water away from the homes
- Mowing grass around the house
- Covering water storage containers
- Managing trash cans
- Sweeping the yard

16. In the past year, have you or people in your household engaged in the above measures? \*

*Mark only one oval.*

☐ Yes      *Skip to question 17*

☐ No      *Skip to question 18*

Section D continued...

## 17. Which ones did you engage in and how frequently?

*Mark only one oval per row.*

	Never	Rarely	Monthly	Weekly	Daily
<b>Eliminating standing water (draining water containers, filling potholes e.t.c)</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Maintaining drainage systems</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Mowing grass around the house</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Covering water storage containers</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Maintaining trash cans</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Sweeping the yard</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

the yard

~~Sweeping~~

the yard

☐☐☐☐☐**Section D continued...**

Other household measures against mosquito breeding sites

18. Do you engage in other household measures against mosquito breeding sites not mentioned in the survey?  
Please, specify

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19. If yes, how frequently do you engage in these practices?

*Mark only one oval.*☐

Rarely

☐

Monthly

☐

Weekly

☐

Daily

20. Do you face any challenges in maintaining these practices? \*

*Mark only one oval.*

☐ Yes

☐ No

21. If yes, what challenges do you face?

*Tick all that apply.*

☐ Financial constraints (i.e lack of money to buy tools such as grass cutters, container lids e.t.c)

☐ Competing responsibilities (i.e lack of time)

☐ Other: \_\_\_\_\_

## Section E: Community engagement

Here are some of the activities that communities can do to control mosquito breeding sites:

- Removing stagnant water in open places like markets and hospitals
- Mowing grass in open places
- Filling potholes
- Sweeping around markets
- Information sharing

22. Does your community engage in activities focused on the control of mosquito breeding sites? \*

*Mark only one oval.*

☐

Yes

*Skip to question 23*

☐

No

Section E continued...

23. How frequently does your community engage in these activities?

*Mark only one oval per row.*

	Never	Rarely	Monthly	Weekly
<b>Removing stagnant water in open places</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Mowing thick grass around hospitals, market places e.t.c</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Filling potholes</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Sweeping around markets</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Information sharing</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Do you participate in these activities? \*

*Mark only one oval.*

- ☐ Yes
- ☐ No, but willing
- ☐ No and not willing

25. What additional support would help you sustain these practices?

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