### **S2** Document. Survey Material Packet.

Survey questionnaires and consent materials are included for the five survey versions used across the three study arms. Materials are ordered as follows:

- S2.1) Consent and Survey 2016 Case Interview Pilot Instrument: Pages 2-16
- S2.2) Consent and Survey Final Case Interview: Pages 17-30
- S2.3) Consent and Survey Emergency Department: Pages 31-39
- S2.4) Consent and Survey Community Paper and Online: Pages 40-48
- S2.5) Consent and Survey Travel Clinic: Pages 49-60

### **MALARIA PATIENT INTERVIEW FORM:** (as of 11/7/2016)

#### **Introductory Narrative and Tennessen Warning**

The following text does not need to be followed verbatim, but you do need to touch on all of the following points:

#### **INTRODUCTION**

### Ask for case-patient (if $\geq$ 18 years old) or parent/guardian (if < 18 years)

- Under 12 years old: Conduct interview with parent/quardian.
- <u>12-17 years old</u>: You can conduct interview with the patient, if parent/guardian allows, but make sure to obtain parent/quardian's consent first. The child will also need to assent to the interview.
- Adults ≥ 18 years old: It is preferable to interview the case-patient. Alternatively, it is okay to
  interview the spouse or another very close family member, IF the case-patient will be difficult to get a
  hold of and if the family member indicates a good understanding of their history.

#### Introduction

- I'm calling from the mosquito-borne disease unit at the Minnesota Department of Health to follow up on your recent malaria infection. It looks like you tested positive for malaria back in [month or season].
- We are trying to interview cases of malaria to learn about what people already know about malaria and learn more about how the disease affected you. The questions will ask about what you know about malaria and what you've learned about malaria since becoming sick. This information will help us to better prepare people who visit areas where malaria is found.
- This interview will take about 15-20 minutes. Does that sound okay/would now be a good time?
  - o If yes, read Tennessen.
  - o If no, find out a better time to call back. Mark down as LTF if they clearly refuse.

### **TENNESSEN WARNING**

- Why we are calling: covered above
- All identifying information is <u>private</u> at MDH and is only seen by MDH staff that work with malaria. We do not share any identifying information with anyone else. Summary information, like where people traveled when they got malaria, or how many cases occurred in Minnesota residents, are shared but none of this information could be used to identify any individuals.
- This interview is <u>voluntary</u>. You can refuse to answer any question or stop me at any time.

#### **LEAVING A MESSAGE**

#### Voice mail

- Leave a message after the 2<sup>nd</sup> attempt. For more a detailed explanation on when to leave a message, please refer to the 'Exposure Call Protocol.' *Do not explicitly state that you are calling about John Doe's malaria.* 
  - This is a message for John Doe. This is [your name] calling from the Minnesota Department of Health. I'm with the mosquito-borne disease unit here and am hoping we can chat sometime soon. Please give me a call at 651-201-xxxx when you have a chance. We look forward to speaking with you. Thanks!

### Leaving message with a person (case-patient not available)

- I'm calling from the mosquito-borne disease unit at the MN Department of Health. Are you a family member of John's?
  - If spouse or very close adult family member: Do similar intro as if you are speaking with the
    case-patient and find out when would be a good time to call back, or leave your phone
    number. Alternatively, you can try to interview the family member if the person feels they
    know a lot about the case-patient's malaria experience.
  - o <u>If person who answers is a child or isn't a close family member:</u> I'm calling from the mosquitoborne disease unit at the Minnesota Department of Health. Do you know when would be a good time to get a hold of John? ... I will try to call back then. May I also leave a message and give you our phone number here?

_						
Patient Information:		nt Information:	Name (last, fir	st):		
			DOB:			
Interview Outcome:		view Outcome:	Date: /	1	Interviewer:	
			☐ Tennessen			
			☐ Patient ☐	Proxy (name a	nd relationship):	
					· ·	
				-	' for introductory script.	
ጥጥ	Not	e to interviewer:	: unless instructe	ed to do so belo	w, do <u>not</u> read answer opti	ons to respondents.
Se	ctio	n 1: Malaria K	<b>(nowledge</b>			
			ام برمیر فمطیر ام	noody knows	hout malorio I/II rood	vou a fau stataments
		sk you to rate	•	•	about malaria. I'll read <sup>.</sup> e:	you a rew statements
		,		<b>3</b>		
1 -	- Not	true 2 – Rare	ely true 3 – So	metimes true	4 – Mostly/usually true	5 – Very true/always true
1.	<u>Thi</u>	nking about bef	ore you got mala	aria, how true a	re the following statements	<u>5?</u>
	۵۱	Lwas concorno	d for musalf abou	ıt gotting mələri	2	
	a)	I was concerned	2	3	a 4	5
	L- V	NA/le a se Assessa lisa se		والمائمان والمارة	an ana mana libabata basana	:- - f :- +
	b)	when traveling	to areas with ma	alaria, my childre 3	en are more likely to becom 4	e sick from malaria than I am 5
	- \	NA de de de cel				
	c)	Malaria is only s	serious in childre 2	n 3	4	5
	d)	Malaria could b	e a deadly diseas	se for me 3	4	5
	e)	It is important t	to take precaution 2	ns when I travel 3	to countries where there is	malaria 5
		1	2	3	4	5
2.	Ho	w do people get	malaria? ( <i>check</i>	all that are men	tioned and write in others)	
		From mosq			From bad air	
		☐ From water			☐ From another person	on
		□ Other (plea	se describe):			
3.	Car	n people catch m	alaria directly fro	om another pers	on?	
		☐ Yes				
		П №				

4. Ca	you prevent maiaria?
	☐ Yes
	If <u>yes</u> , how can you prevent malaria? (check all that apply)
	☐ Immunizations/shots ☐ Bed nets ☐ Insect repellent ☐ Take medications ☐ Other (describe):
	□ No
	n 2: Previous Malaria Exposure and Infection his the first time you had malaria?
	☐ Yes ☐ No ☐ Don't know/undiagnosed
	a. How many times before?
	b. When was the last time you had malaria?
	c. Last time, how did you know it was malaria? (i.e., who diagnosed you?)
	<ul><li>☐ Medical Provider</li><li>☐ I figured it out myself</li><li>☐ Other:</li></ul>
	d. Is that how you usually do it?
	<ul><li>☐ Yes</li><li>☐ No</li><li>☐ Other:</li></ul>
	e. Were you treated after your diagnosis?
	$\square$ Yes – if <b>yes</b> , do you remember what medications/treatments you were given?
	□ No
	n 3: Current Trip I like to find out more about your most recent trip [prompt with travel dates from CRF]
6. W	at was the main reason for your travel?
	<ul> <li>□ Visit friends or relatives</li> <li>□ Business</li> <li>□ Vacation – not visiting friends or relatives</li> <li>□ Studying abroad / research</li> <li>□ Mission trip</li> <li>□ Other:</li> </ul>

7.	Where did you travel to? (List specific country[ies], city[ies])		
8.	How long were you there? (days, weeks, months)		
9.	Did you or anyone traveling with you talk to someone about malaria before you left?  Yes – if yes, go to 9a.		
	No – skip to question 10		
	9a. If <u>yes</u> , who did you/they talk to?		
	☐ Family member       ☐ Religious leader         ☐ Community elder       ☐ Travel agent         ☐ Healthcare provider       ☐ Other:		
	If it was a healthcare provider, was it your regular healthcare provider, travel clinic, or somewhere else?		
	<ul><li>☐ Your regular healthcare provider (primary care)</li><li>☐ At a travel clinic</li><li>☐ Other:</li></ul>		
	9b. If you traveled as a family, did all the family members see a health care provider before travel or only specific family members? Which ones?		
	<ul> <li>N/A (traveled alone)</li> <li>All travelers</li> <li>Only children</li> <li>A pregnant traveler</li> <li>Other:</li> </ul>		
10.	During your most recent trip to when you got malaria, did you use insect repellent?		
	☐ Yes ☐ No ☐ Sometimes		
	10a. If <b>yes/sometimes</b> , when did you use it?		
	☐ Applied in morning when getting ready       ☐ Before I went to bed         ☐ Only when I saw mosquitoes       ☐ Only if I saw mosquito bites on my skin         ☐ When I knew I would be outside       ☐ When I was outside after sundown         ☐ Throughout the day       ☐ If other people complained of mosquitoes         ☐ Other:		
	10b. If <u>yes/sometimes</u> , do you remember what kind of repellent?		

10c. Were there any other times you used repellent? (ask again to prompt and use check boxes above)

11. Did you use anything else to keep mosquitoes away?	
☐ Yes (if yes, please describe):	
□ No	
12. During your most recent trip to when you go ☐ Yes – go to question 12a. ☐ No – go to question 12b.	ot malaria, did you sleep underneath a bed net?
12a. Did you use the bed net all of the time or only in	some situations?
☐ All the time ☐ Other (please describe):	
12b. If you did not use a bed net, why not? (check all to	that apply):
☐ I did not think I needed a bed net/to slee ☐ I did not know where to buy a net ☐ I do not like sleeping under a net ☐ I gave my net to someone else to use/no ☐ I slept in a place in which a bed net was u	t enough nets for everyone
13. When you last traveled, were any special health precaut ( <i>Read list to case and select all that apply</i> )	tions recommended to you?
☐ Vaccines	Hand sanitizer
☐ Medications for malaria	☐ Insect repellents
<ul><li>☐ Medications for diarrhea</li><li>☐ Other (please describe):</li></ul>	☐ Bed nets
13a. Who recommended these to you?	
Section 4: Current illness	
Now I'd like to ask you some more questions about how recent/current illness:	w malaria affected you. For your most
14. When did you start feeling sick? (test/doctor's visit was	on [lab date]) Estimated date:
15. When you started to feel sick were you abroad, traveling	g between countries/cities, or back in the US?
☐ In another country	
☐ Traveling between countries/cities	
☐ Back in the U.S.	

16. Before you traveled this time, were you prescribed a malaria prevention medication?

☐ Yes	
☐ No – skip to question 18	
16a. <u>If yes</u> , who prescribed the medication?	
☐ Regular doctor☐ Travel clinic	☐ Pharmacist (didn't see a provider) ☐ Other:
16b. If yes, did you pick up the prescription?  ☐ Yes ☐ No – go to question 18	
16c. If yes, did you take the malaria prevention me	dication?
☐ Yes ☐ No	
17a. Do you remember what medication(s) you received?	
<ul><li>☐ Chloroquine (Aralen®)</li><li>☐ Atovaquone-proguanil (Malarone®)</li><li>☐ Don't remember</li></ul>	<ul><li>☐ Mefloquine (Lariam ®)</li><li>☐ Doxycycline</li><li>☐ Other:</li></ul>
If don't remember the name of the medicine, do	you remember
Was it once a day or once a week? ☐ Once a day ☐ Once a week The shape of the pill? ☐ Liquid ☐ Oval ☐ Circle	Color of pill?  If you break it open, was there powder inside?  Powder inside (capsule)  Pill was same texture inside and out (tablet)
17b. How often were you supposed to take it?	
☐ Once a day ☐ Once a week ☐ Don't know	
17c. After you got back, how long did you take it?	
Stopped right when I got back For <3 days after I got back 1 week after I got back 2 weeks after I got back 3 weeks after I got back 4 weeks after I got back	

17d. Do you	remember how long were you supposed to take it after you got back?
	Stop right when I got back For <3 days after I got back 1 week after I got back 2 weeks after I got back 4 weeks after I got back Can't remember
17e. Did yo	u take it as prescribed or did you miss or skip any doses?
	As prescribed Missed/skipped doses  Missed one Missed a few days Missed a lot of days I stopped taking it
17f. If you s	kipped or missed doses or stopped taking it, what were the reasons?  Forgot to take medicine  The pharmacy didn't give me enough  Lost it  Had side effects (describe):  Other:
18a. If med	ications were not prescribed <b>OR</b> if medications were prescribed but you didn't take them, why not?
[Not prescri	
	No one told me I needed preventive medications
	Didn't know there were preventive medications
[Prescribed,	didn't take it only:]
	Could not get medication at pharmacy/pharmacy did not stock medication
[Either:]	
	It was too expensive
	Not a serious disease
	I would rather take my chances
	Don't think I needed it
	The medication has too many side effects/am worried about side effects
	I planned to just buy medicine if I got sick while traveling/easier to just treat if you get sick
	My trip was too long for me to take a prevention medication
	They didn't give me enough for my whole trip
	They didn't give me enough for my whole trip  My insurance didn't cover it  I forgot

I didn't think there was malaria where I was go	oing
☐ I planned to get it when I got to my destination	n
☐ It wasn't the rainy season	
☐ Medications do not work well	
☐ I don't like to take medications	
☐ Other:	
18b. Are there any other reasons that you didn't take medi-	cation? (ask question again and use options above)
Section 5: Traveling with children	
19. On your last trip did any children travel with you?	
Yes – if yes, how many?	
No – skip to question 23	
20. Before you traveled, was the child prescribed a malaria	prevention medication?
☐ Yes	
□ No – skip to question 22	
20a. If yes, did someone pick up the prescription?	
☐ Yes	
_	
☐ No – skip to question 22	
20b. If yes, did the child take the malaria preventio	n medication?
☐ Yes	
No – skip to question 22	
F 10 4F 11 1	
21. a. Do you know what medication/s the child received?	
☐ Chloroquine (Aralen®)	☐ Mefloquine (Lariam ®)
☐ Atovaquone-proguanil (Malarone®)	☐ Doxycycline
☐ Don't remember	Other:
If don't remember the name of the medicine, do yo	ou remember
a. Was it once a day or once a week?	c. Color of pill?
Once a day	
Once a week	d. If you break it open, was there powder inside?
b. Shape of the pill?	Powder inside (capsule)
∐ Liquid	Pill was same texture inside and out
∐ Oval	(tablet)
☐ Circle	(tablet)

21b. How often was the child supposed to take it?				
	Once a day			
	Once a week			
	Don't know			
21c. After y	you got back, how long did the child take it?			
	Stopped right when child got back			
	For <3 days after child got back			
	1 week after child got back			
	2 weeks after child got back			
	4 weeks after child got back			
21d. How l	ong was the child supposed to take it after he/she got back?			
	Stop right when child got back			
	For <3 days after child got back			
	1 week after child got back			
	2 weeks after child got back			
	4 weeks after child got back			
	Can't remember			
21e. Did th	e child take it as prescribed on the label or did he/she miss or skip any doses?			
	As prescribed			
	Missed/skipped doses			
	☐ Missed one			
	☐ Missed a few days			
	☐ Missed a lot of days			
	I stopped taking it			
21f. If he/s	he skipped or missed doses or stopped taking it, what were the reasons?			
	Forgot to take medicine			
	The pharmacy didn't give me enough			
	Lost it			
	Had side effects (describe):			
	Other:			

22a. If medications were not prescribed OR if medications were prescribed but he/she didn't take the medication, why not? [Not prescribed only:] ☐ No one told me preventive medications were needed ☐ Didn't know there were preventive medications [Prescribed, didn't take it only:] Could not get medication at pharmacy / pharmacy did not stock medication [Either:] ☐ It was too expensive ☐ Not a serious disease ☐ I would rather take my chances ☐ Don't think child needed it ☐ The medication has too many side effects/worried about side effects in children I planned to just buy medicine if child got sick while traveling/easier to just treat if you get sick My trip was too long for child to take a prevention medication They didn't give child enough for whole trip ☐ My insurance didn't cover it ☐ I forgot to make sure child took I didn't think there was malaria where we were going I planned to get it when we got to our destination ☐ It wasn't the rainy season ☐ Medications do not work well ☐ I don't like to take medications/give medications to children Other: \_\_\_\_\_ 22b. Are there any other reasons the child didn't take medication? (ask question again and use options above) **Section 6: Post-travel questions** My next set of questions is about when you got back from your recent trip to : 23. When you started to feel sick/first noticed your symptoms, what did you think was making you sick? Malaria Something else (describe): 24. When you noticed your symptoms, where was the first place you looked for information/advice about your illness? ☐ Family or friend abroad ☐ Urgent care/ER in US ☐ Travel clinic in US ☐ Healthcare provider abroad ☐ Internet ☐ Family or friend in US ☐ Primary care in US Other:

25. Did you try t	o treat yourself (or your child) before seeking i	medi	cal care?
☐ Yes ☐ No			
25a. If <u>yes</u> ,	why? (Check all that apply):		
	Doctors in the US don't know about malaria Going to the doctor is too expensive I knew it was malaria and how to treat it I already had the medicine Buying medicine is too expensive Didn't know it was malaria Malaria is easy to treat Malaria is not a serious problem Other:		
25b. If <b>yes</b> ,	what did you do to treat yourself? ( <i>Check all to</i> Took medication for fever and/or pain? (e.g.    If <b>yes</b> , what medicine:  Herbal remedy	parac	etamol, Tylenol, ibuprofen)
25c If <b>ves</b>	Other:did you take a medicine specifically for malaria		
	Yes  If yes, what medicine?		
	Where was the medicine from/where did y No	ou ge	et it?
malaria befo	ing from any trip to a country with malaria, har ore going to a doctor? — <b>skip to question 25a.</b>	ve yo	u ever self-treated a child in your family for
	- skip to question 25b.		
26a. If yes,	why? (Check all that apply):	_	
	Malaria is easy to treat  Malaria is not a serious problem  Didn't know it was malaria  I already had the medicine  Buying medicine is too expensive		Going to the doctor is too expensive I knew it was malaria and how to treat it Doctors in the US don't know about malaria Other:
26b. It no, v	why not? (please explain):		

27.		-	ealth professionals did you see or visits to cl you were told that malaria was your diagno		urgent care, emergency departments did you
		On Tw Thr	0		Four or more Never told I had malaria
Sec	ction 7:	Fut	ure plans		
28.			eek medical advice before traveling outside		
	Ц	Yes	If <b>yes</b> ; where would you get this advice (Ch Internet Travel agent Pharmacy Urgent care	neck a	Ill that apply)? Primary care Travel clinic Other:
		No -	- If <u>no</u> , why not? (Check all that apply)		
			I don't have insurance Rather take my chances Too busy		Not worried about malaria/don't think I can get malaria ("I am immune") Other:
29.			ne you (or your child) travel to a country with if it was suggested to you?	mala	aria, would you take malaria prevention
		Yes No			
		If <u>nc</u>	, why not?		
			Too expensive  Not a serious disease I would rather take my chances  Don't think I'll need it I will probably forget I don't like to take medications  My insurance doesn't cover it  Medications do not work well It won't be the rainy season  Can't get enough medication for my whole trip		I don't think there is malaria where I'll travel I will get it when I got to my destination The medication has too many side effects/am worried about side effects I plan to just buy medicine if I get sick while traveling/easier to treat if you get sick My trip will be too long for me to take a prevention medication I can't find a pharmacy that stocks the medication Other:
30.	The nex	t tim	e you travel to a country with malaria, woul	d you	use a bed net if it were recommended to you?
		Yes	- if no, why not?		

31.	The next time you travel to a country with malaria, would you use mosquito repellent if it were recommended to you?
	☐ Yes ☐ No — if no, why not?
32.	The next time you travel to a country with malaria, would you use insecticide-treated clothing if it were recommended to you?
	☐ Yes ☐ No – if no, why not?
33.	Is there anything you know about malaria now that you wish you had known before you got sick?
34.	In your opinion, what would be the best way to educate people about malaria?

# **Additional Demographic Information**

35. (	Gender:
	☐ Male
	☐ Female
36. \	Were you born in the United States?
	☐ Yes
	□ No
3	35a. <u>If no</u> , where were you born? (Record country of birth):
37. I	Have you ever lived in a country other than the United States or the country you were born?
	☐ Yes – where?
	□ No
38. I	Have you ever lived in an area that has malaria? (Not recent trip, but <u>lived</u> there)  Yes
	No − skip to question 39
	38a. When was the last time?
	38b. Where did you live?
	38c. How long did you live there? (weeks, months, years)
	38d. How long have you lived in the US? (weeks, months, years)
39. \	Where were your parents born?
	Mom:
	Dad:
40. I	How would you describe your race/ethnicity?:
41.	Before this most recent trip, how long ago did you last travel to a country with malaria?
42 V	What is the highest level of educational you completed?
42.	What is the highest level of educational you completed?
	☐ Grade school ☐ Bachelor's Degree ☐ Graduate School
	<ul><li>☐ High School</li><li>☐ Associate Degree</li><li>☐ Graduate School</li></ul>
	- Associate Degree
36	Additional notes

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  - o If yes, read Tennessen.
  - o <u>If no, find out a better time to call back. Mark down as LTF if they clearly refuse.</u>

### **TENNESSEN WARNING**

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  - This is a message for John Doe. This is [your name] calling from the Minnesota Department of Health. I'm with the mosquito-borne disease unit here and am hoping we can chat sometime soon. Please give me a call at 651-201-xxxx when you have a chance. We look forward to speaking with you. Thanks!

### Leaving message with a person (case-patient not available)

- I'm calling from the mosquito-borne disease unit at the MN Department of Health. Are you a family member of John's?
  - If spouse or very close adult family member: Do similar intro as if you are speaking with the
    case-patient and find out when would be a good time to call back, or leave your phone
    number. Alternatively, you can try to interview the family member if the person feels they
    know a lot about the case-patient's malaria experience.
  - o <u>If person who answers is a child or isn't a close family member:</u> I'm calling from the mosquito-borne disease unit at the Minnesota Department of Health. Do you know when would be a good time to get a hold of John? ... I will try to call back then. May I also leave a message and give you our phone number here?

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P	atie	nt Information:	Name (last, firs	t):					
			DOB:						
lr	Interview Outcome:		Date: /	Date:/ Interviewer:					
			☐ Tennessen						
			☐ Patient ☐	Proxy (name and	relatio	nship):			
Ra	for	to 'Malaria Inte	rview Introduct	ory Narrative' fo	r intro	nductory script			
				•			ers to respondents. **		
		n 1: Malaria K			,	<u></u>			
			_	out malaria. I'll re	ad you	a few statement	ts and ask you to rate them		
on	a sc	ale of 1 to 5:							
1 -		t true		3 – Somewhat true			- Very true/always true		
1.	Th	inking about <u>befo</u>	ore you got malar	<u>ia</u> , how true are th	e follo	wing statements?	?		
	f)	I was concerned	l for myself about	getting malaria w	hen tra	aveling			
	1		2	3	4	ļ.	5		
	g)	Malaria can be a	a deadly disease						
	1		2	3	4	ļ	5		
2.		You / Adult	reas with malaria	, who is more likel <sup>,</sup>	y to be	come sick from n	nalaria – you or your child?		
3.	Но	w do people get i	malaria? ( <i>check a</i>	ll that are mention	ed and	write in others)			
		From mosqu				rom bad air			
		☐ From drinkin☐ Other (pleas	_		∐ Fı	rom another pers	son <u>(<b>prompt with clarifier #4)</b></u>		
4.		n people catch m	alaria directly fro	m another person erson right to anot		sick with malaria	?		
5.	Ca	n you prevent ma	ılaria?						
		☐ Yes							
If y	<u>res</u> ,	<u> </u>		eck all that the par					
			unizations/shots			ed nets ake medications			
		_	•						
		□ No	/-						

# **Section 2: Previous Malaria Exposure and Infection**

6. Is	this the first time you had malaria	?						
	Yes							
	] No							
	☐ Don't know							
b.	b. How many times before?							
c.	When was the last time you had malaria?							
d.	Last time, how did you know it was  Medical Provider  I figured it out myself / red  Other:							
e.	Yes	han once before: Is that how you usually knew you had malaria?						
f.	Were you treated with medicine	ast time you had malaria?						
	Yes – if <u>yes</u> , do you remem	ber what medications/treatments you were given?						
Now I'd li 7. What  If more th V B V Si N O 8. Wher	were the main reasons for your tra nan one, rank primary (#1), second isit friends or relatives	tives  untry[ies])						
	ou talk to someone about malaria by Yes – if yes, go to 10a  No – skip to question 11  s, who did you/they talk to?	efore you left?						
	Family member / friend Community elder Healthcare provider (check 11 as Yes, skip to 11a)	☐ Religious leader ☐ Travel agent ☐ Other:						

11. <i>If participant does not list healthcare provider above:</i> Did you see a healthcare provider before you left?
☐ Yes – Go to 11a
☐ No – Why not?
11a. If yes: Was it your regular healthcare provider, travel clinic, or somewhere else?
Regular healthcare provider (primary care)
Travel clinic
Both regular healthcare provider and travel clinic
☐ Urgent care
☐ Pharmacy / minute clinic
☐ Other:
12. Did you travel with family? <i>If yes, continue question, if no go to question 13</i> Yes
☐ No, did not travel with family
12a. <u>If yes</u> Did everyone in the family who traveled see a healthcare provider?
Yes
□ No
☐ Some were seen → Who?
12b. Were you more concerned about making sure certain family members were seen by a healthcare provider than others?
☐ Yes → Who?
·
☐ Only certain family members have insurance
☐ Cost
☐ Risk of Illness
☐ Age (very young or old)
Pregnancy
☐ Other:
13. During your most recent trip did you use any of the following strategies to keep mosquitos away or stay healthy? <i>I'm going to list a few examples and you can respond: yes, no, or sometimes</i> Did you sleep under bed nets?  Yes  No  Sometimes  If sometimes, when?
If no, why not?
☐ I did not think I needed a bed net/to sleep under a bed net
☐ I did not know where to buy a net
☐ I do not like sleeping under a net
☐ I gave my net to someone else to use/not enough nets for everyone
☐ I slept in a place in which a bed net was unnecessary
☐ Other:

Did you use repellent / creams /sprays / lotions?
Applied in morning when getting ready
☐ Only when I saw mosquitoes
·
☐ When I knew I would be outside
☐ Throughout the day
☐ Before I went to bed
Only if I saw mosquito bites on my skin
When I was outside after sundown
If other people complained of mosquitoes
☐ Other:
If yes / sometimes, do you know what the active ingredient was?
Deet
☐ Picaridin
☐ Other:
☐ Yes ☐No ☐Sometimes Mosquito coils
☐ Yes ☐ No ☐ Sometimes Environmental cleanup e.g removing sources of standing water
☐ Yes ☐No ☐Sometimes Staying indoors when mosquitos are out
☐ Yes ☐No ☐Sometimes Wear long clothing
☐ Yes ☐ No ☐ Sometimes Practice good food safety / hygiene
☐ Yes ☐ No ☐ Sometimes Ensure clean water source (safe, bottled)
☐ Yes ☐ No ☐ Sometimes Educate yourself on risks of malaria before traveling
Yes No Sometimes Pick where you stayed in order to avoid mosquitos (AC/screens)
☐ Yes ☐ No ☐ Sometimes Get vaccinations
Anything else?
<b>Section 4: Current illness</b> Now I'd like to ask you some more questions about how malaria affected you. For your most recent/current illness:
14. When did you start feeling sick? (test/doctor's visit was on [lab date]) Estimated date:
15. When you started to feel sick were you abroad, traveling between countries/cities, or back in the US?  ☐ In another country ☐ Traveling between countries/cities ☐ Back in the U.S.
16. Did you take a malaria prevention medicine during your last trip?  ☐ Yes ☐ No ☐ Sometimes

17. Did a healthcare provider write you a prescription for a	a malaria prevention medicine?
Yes	
No – <b>If 16 &amp; 17 are No, skip to 23</b> 17a. <b>If yes,</b> did you pick up the medicine in the US or once	you arrived to your destination?
Picked up the medicine in the US	you arrived to your destination:
If in the US: Who prescribed the medication?	
	☐ Pharmacist (didn't see a provider)
☐ Travel clinic	☐ Other:
☐ Picked up the prescription in destina	
17b. If 16 is yes/sometimes and 17 is no, clarify: Did you be prescription once you arrived to your destination?  Yes  No – Explain:	
18. Do you remember what medication(s) you received?	
☐ Chloroquine (Aralen®)	☐ Mefloquine (Lariam ®)
☐ Atovaquone-proguanil (Malarone®)	☐ Doxycycline
☐ Don't remember	☐ Other:
18a-d. If don't remember the name of the medicine, do yo	ou remember
a. Was it once a day or once a week?	 ☐ Circle
☐ Once a day	c. Color of pill?
Once a week	c. color of pin.
b. The shape of the pill?	d. If you break it open, was there powder inside?
☐ Liquid	☐ Powder inside (capsule)
☐ Oval	$\square$ Pill was same texture inside and out (tablet)
19. How often were you supposed to take it?	
☐ Once a day	
☐ Once a week	
☐ Don't know	
20. Did you take it as prescribed or did you miss or skip and	y doses?
$\square$ No, I took it as prescribed	
☐ Missed/skipped doses	
☐ Missed one	
☐ Missed a few days	
☐ Missed a lot of days	
☐ I stopped taking it	
20a. If you skipped or missed doses or stopped taking it: \	What were the reasons?
Forgot to take medicine	
The pharmacy didn't give me enough	
☐ Lost it	
Had side effects (describe):	
Other:	

21. Do you	remember how long were you supposed to take it after you got back?
	Stop right when I got back
	For <3 days after I got back
	1 week after I got back
	2 weeks after I got back
	4 weeks after I got back
	Can't remember
22. After yo	ou got back, how long did you take it?
	Stopped right when I got back
	For <3 days after I got back
	1 week after I got back
	2 weeks after I got back
	3 weeks after I got back
	4 weeks after I got back
23. If you d	lidn't take medications, why not?
[Not prescri	
	No one told me I needed preventive medications
	Didn't know there were preventive medications
[Prescribed,	didn't take it only:]
	Could not get medication at pharmacy/pharmacy did not stock medication
[Either:]	
Ц	It was too expensive
	Not a serious disease
	I would rather take my chances
	Don't think I needed it
	The medication has too many side effects/am worried about side effects
	I planned to just buy medicine if I got sick while traveling/easier to just treat if you get sick
	My trip was too long for me to take a prevention medication
	They didn't give me enough for my whole trip
	My insurance didn't cover it
	I forgot
	I didn't think there was malaria where I was going
	I planned to get it when I got to my destination
	It wasn't the rainy season
	Medications do not work well
	I don't like to take medications
	Other:

23b. Are there any other reasons that you didn't take medication? (ask question again and use options above)

# **Section 5: Traveling with Children**

24. On your last trip did any children travel with you?	
Yes – if yes, how many?	How old were they?
☐ No – skip to question 33	
25. Did your child/ren take a malaria prevention medicine	during your last trip?
$\square$ Yes $\rightarrow$ Did the child finish taking the medicine a	fter he/she got back? 🗌 Yes 🗌 No 🔀 Don't recall
□ No	
☐ Sometimes→Did the child finish taking the med recall	dicine after he/she got back? 🗌 Yes 🗌 No 🛗 Don't
26. Did a healthcare provider write your child/ren a prescri ☐ Yes	ption for a malaria prevention medicine?
☐ No – If <b>25 &amp; 26 are No, skip to 32</b>	
26a. <u>If yes,</u> did you pick up the medicine for your child/ren	in the US or once you arrived to your destination?
Got the medicine in the US	
If in the US: Who prescribed the medication?	☐ Pharmacist (didn't see a provider)
	Other:
Got the prescription in destination co	
26b. If 25 is yes/sometimes and 26 is no, clarify: So you bo	
child/ren without a prescription once you arrived to your d	•
Yes.	
☐ No – Explain:	<del>-</del>
27. Do you remember what medication(s) you received for	
Chloroquine (Aralen®)	Mefloquine (Lariam ®)
Atovaquone-proguanil (Malarone®)	· ·
☐ Don't remember	☐ Other:
27a-d. If don't remember the name of the medicine, do yo	
a. Was it once a day or once a week?	c. Color of pill?
Once a day	d. If you break it open, was there powder inside?
☐ Once a week b. The shape of the pill?	☐ Powder inside (capsule)
Liquid	☐ Pill was same texture inside and out (tablet)
☐ Oval	·
☐ Circle	
28. How often was your child/ren supposed to take it?	
☐ Once a day	
Once a week	
☐ Don't know	

29. Did you	r child/ren take it as prescribed or did you miss or skip any doses?
	No, he/she took it as prescribed
	Missed/skipped doses
	☐ Missed one
	☐ Missed a few days
	☐ Missed a lot of days
	He/she stopped taking it
29a. <b>If your</b>	child/ren skipped or missed doses or stopped taking it: What were the reasons?
·	Forgot to take medicine
	☐ The pharmacy didn't give me enough
	□ Lost it
	☐ Child couldn't tolerate bad taste of medicine
	Had side effects (describe):
	☐ Other:
30. Do you i	remember how long were your child/ren supposed to take it after you got back?
	Stop right when I got back
	For <3 days after I got back
	1 week after I got back
	2 weeks after I got back
	4 weeks after I got back
	Can't remember
31. After yo	ou got back, how long did your child/ren take it?
	Stopped right when I got back
	For <3 days after I got back
	1 week after I got back
	2 weeks after I got back
_	3 weeks after I got back
$\overline{\sqcap}$	4 weeks after I got back
	4 Weeks after 1 got back
-	child/ren didn't take medications, why not?
[Not prescrib	• -
	No one told me I needed preventive medications
·	Didn't know there were preventive medications
	didn't take it only:]
[Fithor:]	Could not get medication at pharmacy/pharmacy did not stock medication
[Either:]	It was too expensive
$\Box$	Not a serious disease
	I would rather take my chances
	Don't think I needed it
	The medication has too many side effects/am worried about side effects
	I planned to just buy medicine if I got sick while traveling/easier to just treat if you get sick
	T MIGHINGA LO MAL MAY THEATCHIC IL LEACTAICH WITHE LLAVEIHIE/FAAIEL LA MAL HEAT IL VOILEEL AICH

	My trip was too long for me to take a prever	ntion me	dication	
	They didn't give me enough for my whole tri	ip		
	My insurance didn't cover it			
	I forgot			
	I didn't think there was malaria where I was	going		
	I planned to get it when I got to my destinati	•		
	Medications do not work well			
	I don't like to take medications			
	Other:			
32b. Are th	nere any other reasons that your child/ren didn	't take r	nedicatio	on? (ask question again and use options above)
C4: C	Doct towns I would be			
	: Post-travel questions		cont trin	to .
iviy next se	t of questions is about when you got back from	your re	cent trip	
33. When	you started to feel sick/first noticed your symp	toms, w	hat did y	ou think was making you sick?
	Malaria			
	Something else (describe):			
34. When	you noticed your symptoms, where was the fir	rst place	vou loo	ked for information/advice about your
illness			,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Family or friend abroad		Urgent	care/ER in US
	Healthcare provider abroad		Travel	clinic in US
	Family or friend in US		Interne	t
	Primary care in US			
	•			
	u try to treat yourself before seeking medical c	are?		
	Yes			
Ц	No			
35a. If <u>yes</u> ,	why? (Check all that apply):			
	Doctors in the US don't know about malaria			Buying medicine is too expensive
	Going to the doctor is too expensive			Didn't know it was malaria
	I knew it was malaria and how to treat it			Malaria is easy to treat
	I already had the medicine			Malaria is not a serious problem
$\overline{\Box}$	Other:			
35b. If <b>yes</b> ,	what did you do to treat yourself? (Check all t	hat appl	/y):	<del></del>
	Took a malaria medication. What medication			
If	☐ Took medication for fever and/or pain? <b>yes,</b> what medicine:			•
.,	Herbal remedy:			
	Other:			

# SKIP question 36 if the participant did not travel with a child

36. How man	ny times did you do to the doctor before you we	ere tol	d you had malaria?
	One		Four or more
	Two		Never told I had malaria
	Three		
_ Y	nave any concerns about going to the doctor wi es. Please explain:		
malaria b	urning from any trip to a country with malaria, before going to a doctor?  Yes — <b>Go to 38a.</b> No — I did not try to self-treat the child before go when the child before go when the child has never seemed sick with malaria and the child has never seemed sick with malaria and the child has never seemed sick with malaria and the child has never seemed sick with malaria and the child has never seemed sick with malaria and the child has never seemed sick with malaria and the child has never seemed sick with malaria and the child has never seemed sick with malaria.	oing to	the doctor – <b>Go to 38b.</b>
] [ ] [	hy? (Check all that apply):  Malaria is easy to treat  Malaria is not a serious problem  Didn't know it was malaria  I already had the medicine  Buying medicine is too expensive		I knew it was malaria and how to treat it  Doctors in the US don't know about malaria
36b. <u><b>If no,</b></u> wh	ny not? (please explain):		
Section 7: F	Future plans		
	e you travel to a country with malaria, where w Il participant mentions	ould y	ou seek advice on your health?
	Internet		Friends / family
	☐ Travel agent		Community leaders
	☐ Pharmacy		CDC / MDH
	☐ Urgent care		Other:
	☐ Primary care		Not going to seek advice
	☐ Travel clinic	Why I	not?

40. The next tim	ne you travel to a country with malaria, will y	ou ta	ake a malaria prevention medication?
☐ Ye			
No  If no, why not?	Too expensive Not a serious disease I would rather take my chances Don't think I'll need it I will probably forget		I don't think there is malaria where I'll travel I will get it when I got to my destination The medication has too many side effects/am worried about side effects I plan to just buy medicine if I get sick while
	I don't like to take medications My insurance doesn't cover it Medications do not work well It won't be the rainy season Can't get enough medication for my whole trip		traveling/easier to treat if you get sick My trip will be too long for me to take a prevention medication I can't find a pharmacy that stocks the medication Other:
☐ Ye	ne you travel to a country with malaria, will y s o – if no, why not?		
☐ Yes	ne you travel to a country with malaria, will y		
·	thing you know about malaria now that you		
44. In your opin	nion, what would be the best way to educate	peor	ole about malaria?

# **Additional Demographic Information**

45. Gender:
□Male
□Female
□ Other:
46. Were you born in the United States?
□Yes
□No
46a. If no: Where were you born? (Country):
46b. If no: When did you last live there?
46c. If no: How long did you live there?
46d. If no: How long have you lived in the US?
47. Have you ever lived in a country other than the United States or the country you were born?
☐ Yes – where?
□ No
47a. If yes: When did you last live there?
47b. If yes: How long did you live there?
48. (Since living in the United States) how many times have you traveled to places with malaria / Africa?
☐ 1 – this was my first time back
□ 2
□ 3
$\square$ 4
☐ 5 or more times
49. Where were your parents born? (Country): Mom: Dad:
50. How would you describe your race/ethnicity?
51. What is the highest level of educational you completed?
☐ Grade school ☐ Some high school ☐ High school
☐ Associate degree / some college / post-secondary training ☐ Bachelor's degree
Graduate school / PhD / Advanced
52. Primary care doctors are doctors you go to for checkups and health problems that aren't emergencies. I
you go to a primary care doctor?
□ Yes
□ No
52a. If yes, when is the last time you went to your primary care doctor?
☐ Within the last month
☐ Within the last 6 months
☐ Within the last year
☐ 1-2 years
☐ More than 2 years ago
53. Additional notes:

Survey Date:	Interviewer Initials:	Unique Participant ID:	
	Completed? (Y/N		
Target Population:			
First and second generation	on immigrants from Sub-Saharar	n Africa who have traveled to a malari	ia area in any par
of Africa in the past 10 ye	ars, or who plan to travel in the	coming 1 year	
Inclusion Criteria			
☐ <b>Chart:</b> Presenting	ng to ED waiting room in stable s	tatus (non-critical)	
☐ Chart/Ask: 18 ye	ears of age or older		
<u> </u>		in country:	
	y from Sub-Saharan Africa:		
☐ <b>Ask:</b> Traveled to	a malaria-endemic area of Africa	a in the past 10 years or plan to trave	l in the next year
☐ <b>Ask:</b> Resides in th			-
☐ <b>Ask:</b> Has heard o	of malaria before		
1. In the past 10 years, ha	ve you traveled from the US to a	ny country in Africa?	
$\square$ Yes $\rightarrow$ When was	the last time?	/here did you go?	→INCLUDE
	n to travel to a county in Africa ir		_
	here?		
	ES NOT FIT INCLUSION CRITERIA		
2. Do you live in Minnesot	a or in the United States?		
$\square$ Yes $\rightarrow$ INCLUDE			
$\square$ No $\rightarrow$ DOES NOT	FIT INCLUSION CRITERIA		
2. Have you board of male	aria 2		
3. Have you heard of mala  ☐ Yes →INCLUDE	IIId!		
<u> </u>	EIT INCLUSION CRITERIA		
☐ NO → DOES NOT	FIT INCLUSION CRITERIA		

---IF PATIENT FULFILLS ALL INCLUSION CRITERIA ABOVE, COMPLETE ENROLLMENT PROCESS BEFORE BEGINNING SURVEY ---

### Malaria Survey - Information for Participants

We are inviting you to participate in a voluntary research survey about malaria. Malaria is a disease that exists in many tropical countries of the world. The Minnesota Department of Health (MDH) and the Hennepin County Medical Center (HCMC) are organizing this study.

The purpose is to talk about ways to prevent getting malaria when traveling in Africa. We will ask you to take part in a short survey about malaria. Please take some time to read this form or talk about this information with the research assistant.

### 1. WHAT IS THE REASON FOR THIS SURVEY?

This survey is research to learn about travelers and malaria. We want to learn about the experiences of people like you who visit friends and relatives in places with malaria. We hope to work with the local community, doctors, and hospitals to help people avoid getting malaria while traveling.

### 2. WHAT WILL I BE ASKED TO DO?

If you agree to take part in this study, we will ask you to participate in a 10-minute survey. We will ask you questions about your knowledge of malaria and attitudes towards malaria. The research assistant will write down your responses on the computer or paper survey form. Your identity or answers will not be shared with anyone outside the study team.

Participating in this survey will not delay you from seeing a doctor.

### 3. IS PARTICIPATION VOLUNTARY?

**Yes.** Your participation in this survey is voluntary. You have the right to not answer any questions if you don't want to. You also have the right to stop participating in the survey at any time. There are no penalties or consequences if you decide that you do not want to participate.

Your relationship with HCMC, MDH, and their staff/employees will not be affected or harmed if you decided you do not want to participate in this survey.

### 4. WHAT IF I HAVE QUESTIONS?

We will be happy to answer any questions you have about this study. If you have concerns or questions about this study, please contact:

Hannah Volkman, Survey Coordinator at 651-201-5414 or <a href="mailto:hannah.volkman@state.mn.us">hannah.volkman@state.mn.us</a>

For questions about your rights as a participant in this study, contact the Hennepin County Medical Center Institutional Review Board, at 612-863-6882.

\*\* Note to interviewer: unless instructed to do so below, do not read answers to respondents. \*\*

# **Section 1: Malaria Knowledge**

	ant to understand wha a scale of 1 to 5:	t you know about malaria	a. I'll read you a few s	tatements and ask you to rate them	
	Not true	3 – Somewh	nat true	5 - Very true/always true	
1. How true are the following statements?					
	1a. I am concerned for	myself about getting mal	aria when traveling		
	1 2	3	4	5	
	1b. Malaria can be a d	eadly disease			
	1 2	3	4	5	
2.	When traveling to area  You / Adult Child Equally likely	as with malaria, who is mo	re likely to become si	ck from malaria – you or your child?	
3.	☐ From mosquit☐ From drinking		From bac		
4.	• •	ria directly from another ping from one person right		h malaria?	
5.	Can you prevent mala  Yes	ria?			
	Immun Insect i Other (	event malaria? (check all the izations/shots repellent describe):alaria Exposure and Ir	☐ Bed nets☐ Taking m	edications	
	Have you ever had ma				
٠.	Yes No Don't know				

# **Section 3: Most Recent Trip / Upcoming Trip**

**Only use <u>upcoming</u> trip prompts if participant has <u>not</u> traveled to a malaria area in the past 10 years**				
Now I'd like to find out more about your <b>most recent trip to</b> / the trip you plan to take to				
7. What were the main reasons for your travel? / What are the main reasons you are going to travel?  If more than one rank primary (#1), secondary reasons (#2), etc.  Visit friends or relatives  Business  Vacation – not visiting friends or relatives  Studying abroad / research  Mission trip  Other:				
8. What country(ies) did you travel to? / What country(ies) will you travel to?				
9. How long were you on your trip? / How long will you be on your trip? (indicate weeks/days)				
<ul> <li>10. Did you talk to someone about malaria before you left? / Will you talk with someone about malaria before you go?</li> <li>Yes – Go to question 10a</li> <li>No – Skip to question 11</li> </ul>				
10a. <u>If yes</u> , who did you talk to? / Who will you talk to?				
☐ Family member / friend ☐ Religious leader ☐ Community elder ☐ Travel agent ☐ Healthcare provider ☐ Other:				
<ul> <li>11. If participant does not list healthcare provider above: Did you see a healthcare provider before you left? Do you plan to see a healthcare provider before you go?</li></ul>				
<ul> <li>□ Regular healthcare provider (primary care)</li> <li>□ Travel clinic</li> <li>□ Both regular healthcare provider and travel clinic</li> <li>□ Urgent care</li> <li>□ Pharmacy / minute clinic</li> <li>□ Other:</li></ul>				
<ul> <li>12. If you traveled as a family, was everyone traveling seen by a healthcare provider?</li> <li>☐ Yes</li> <li>☐ No</li> <li>☐ Some were seen → How are the people that were seen related to you (e.g., son, mother, etc.)?</li> </ul>				

than others?	sure certain raining members were seen by a healthcare provider						
□ No							
☐ Yes – Why? (check all that apply)							
<u> </u>	Only certain family members covered by insurance						
Cost							
☐ Risk of illness							
☐ Age (very young or ver	y old)						
☐ Pregnancy							
☐ Other:							
13. During your most recent trip did you use any of the following strategies to keep mosquitos away or stay healthy? / Do you plan to use any of the following strategies to keep mosquitos away or stay healthy?   I'm going to list a few examples and you can respond: yes, no, or sometimes							
☐ Yes ☐ No ☐ Sometimes	Bed nets						
☐ Yes ☐ No ☐ Sometimes	Repellent / creams / sprays / lotions						
☐ Yes ☐ No ☐ Sometimes	Mosquito coils						
☐ Yes ☐ No ☐ Sometimes	Environmental cleanup i.e., removing sources of standing water						
☐ Yes ☐ No ☐ Sometimes	Staying indoors when mosquitoes are out						
☐ Yes ☐ No ☐ Sometimes	Wear long clothing						
☐ Yes ☐ No ☐ Sometimes	Practice good food safety / hygiene						
☐ Yes ☐ No ☐ Sometimes	Ensure clean water source (safe, bottled)						
☐ Yes ☐ No ☐ Sometimes	Educate yourself on risks of malaria before traveling						
☐ Yes ☐ No ☐ Sometimes	Pick where you stayed in order to avoid mosquitos (AC/screens)						
☐ Yes ☐ No ☐ Sometimes	Get vaccinations						
Anything else?							
**If participant is a prospective traveler, S	KIP to question 22 **						
Section 4: Antimalarial Use During Travel							
14. Did you take a malaria prevention medicine	e during your last trip?						
☐ Yes → Did you finish taking the medicine after you got back? ☐ Yes ☐ No ☐ Don't recall							
<ul> <li>No</li> <li>□ Sometimes → Did you finish taking the medicine after you got back? □ Yes □ No □ Don't recall</li> </ul>							
<ul><li>15. Did a healthcare provider write you a presc</li><li>☐ Yes</li></ul>	ription for a maiaria prevention medicine?						
□ No							
15a. <u>If yes,</u> did you pick up the medicine in the US or once you arrived to your destination?							
$\Box$ Picked up the medicine in the ${\sf l}$	JS						
Picked up the medicine in destination country							
If 14 is yes/sometimes and 15 is no, clarify: Did you buy the malaria prevention medicine without a prescription							
once you arrived to your destination?							
☐ Yes							
☐ No – Explain:							

# **Section 5: Traveling with Children**

16. On you	ur last trip did any children travel with you?					
	Yes – if yes, how many?	How	old wer	re they?		
	l No					
16a <b>If ves</b>	, did the child/ren take a malaria prevention medi	cine (	during va	our last trin?		
	Yes $\rightarrow$ Did the child finish taking the medicine at			•		
	l No		, 0			
	☐ Sometimes→Did the child finish taking the medicine after he/she got back? ☐ Yes ☐ No ☐ Don't recall					
16b. Did a	healthcare provider write your child/children a pr	escri	ption for	malaria prevention medicine?		
	Yes					
	No	مطلم	IIC an an			
160. <u>IT yes</u>	, did you pick up the medicine for your child/ren in Picked up the medicine in the US	1 the	US or or	ice you arrived to your destination?		
	Picked up the medicine in the os	rv				
-	es/sometimes and 16b is no: Did you buy the malation once you arrived to your destination?	arıa p	reventio	n medicine for your child/ren without		
· · ·	Yes					
_	No Explain:					
	5: Illnesses During Travel and Healthcare	Seek	ing Bel	haviors		
17. Since living in the United States, do you think you have gotten malaria while traveling outside of the US?  Yes						
_	o – Skip to question 22					
INC	3 – Skip to question 22					
18. When you noticed your symptoms, where was the first place you looked for information/advice about your illness?						
	Family or friend abroad		Urgent	care/ER in US		
	Healthcare provider abroad		Travel	clinic in US		
	Family or friend in US		Interne	et		
	Primary care in US		Other:			
19. Did yo	u try to treat yourself before seeking medical care	?				
	l <sub>Yes</sub>					
	l No					
19a. <u>If yes</u>	, why? (Check all that apply):					
	Doctors in the US don't know about malaria			Buying medicine is too expensive		
	Going to the doctor is too expensive			Didn't know it was malaria		
	I knew it was malaria and how to treat it			Malaria is easy to treat		
	I already had the medicine			Malaria is not a serious problem		
	Other:					

## S2.3) Consent and Survey – Emergency Department

19b. <u>If yes</u> , what did you do to treat yourself? ( <i>Check all that apply</i> ):				
☐ Took malaria medication. Which medicine?				
☐ Took medication for fever and/or pain? (	e.g., Tylenol, ibuprofen, paracetamol)			
If yes, which medicine:				
Herbal remedy:				
Other:				
20. Did you end up seeing a healthcare provider when you	thought you had malaria?			
Yes (answer questions 20a through 20d)	a thought you had malana.			
20a. What made you decide to go?				
	<del></del>			
20b. Were you tested for malaria?  Yes Don't know / don't remember				
20c. Did a healthcare provider tell you that you had malari	18 ?			
Yes No Don't know / don't remember				
20d. How many times did you see a healthcare provider be	·			
One Two Three Four or more	_ Don't remember			
□ v. 201 v				
No 20f. If no: Why not?				
☐ I got better on my own	Going to the doctor is too expensive			
☐ Malaria is easy to treat	☐ I knew it was malaria and how to treat it			
☐ Malaria is not a serious problem	Doctors in the US don't know about malaria			
☐ I already had the medicine	☐ Other:			
☐ Buying medicine is too expensive				
24.46				
21. After returning from any trip to a country with malaria	, nave you ever self-treated a child in your family for			
malaria before seeing a healthcare provider?  ☐ Yes – <b>Go to question 21a</b>				
	i i i i i i i i i i i i i i i i i i i			
☐ No – I did not try to self-treat the child before				
$\square$ No – Child never seemed sick with malaria – <b>S</b>	kip to question 22.			
21a. If yes, why? (Check all that apply):				
☐ Malaria is easy to treat	☐ Going to the doctor is too expensive			
☐ Malaria is not a serious problem	☐ I knew it was malaria and how to treat it			
☐ Didn't know it was malaria	☐ Doctors in the US don't know about malaria			
☐ I already had the medicine	Other:			
☐ Buying medicine is too expensive				
21b. <u>If no,</u> why not? (please explain):				

## S2.3) Consent and Survey – Emergency Department

• .		-	ountry of travely and started to feel symptoms nt away or try to treat it yourself at home first?
_	go to the doctor right away. Why?	01 1181	ic away or try to treat it yoursen at nome mot.
	Malaria is dangerous/serious		
_	Doctors can prescribe antimalarial medicine	s	
	Other:		
_	try to treat it at home first. Why?		
	Malaria is easy to treat; I know how to trea	t it	
	Malaria is not a serious problem		
	Going to the doctor is too expensive		
	Doctors in the US don't know about malaria	9	
	Doctors in the US would treat me bad / fea	r of be	ing quarantined
	Other:		
23. Do you have	any concerns about seeing a healthcare pro	vider i	f you had malaria symptoms?
☐ Yes. Plea	ase explain:		
☐ No			
Section 7: Fut	ure Plans		
•	ed again to [country], where would you seek articipant mentions	advice	e on your health?
	Internet		Friends / family
	Travel agent		Community leaders
	Pharmacy		CDC / MDH
_	Urgent care		Other:
	Primary care		Not going to seek advice
		Why r	not?
25. The next tim	e you travel to [country], will you take a mal	aria pi	revention medication?
☐ Yes		•	
□ No			
If no, why not?			
	Too expensive		I don't think there is malaria where I'll travel
	Not a serious disease		I will get it when I got to my destination
	I would rather take my chances		The medication has too many side effects/am
	Don't think I'll need it	_	worried about side effects
	I will probably forget I don't like to take medications		I plan to just buy medicine if I get sick while traveling/easier to treat if you get sick
	My insurance doesn't cover it		My trip will be too long for me to take a
	Medications do not work well		prevention medication
	It won't be the rainy season		I can't find a pharmacy that stocks the medication
	Can't get enough medication for my		Other:
	whole trip		
26. In your opini	on, what would be the best way to educate	people	e about malaria?

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## S2.3) Consent and Survey – Emergency Department

# **Additional Demographic Information**

27. Gender	
☐ Male	28. Age:
☐ Female	If older than 89 years, list ">89"
☐ Other:	
29. Were you born in the United States?	
Yes	
□ No	
29a. <u>If no</u> : How long have you lived in the US?	
29b. <u>If no</u> : Where were you born? (Country):	
29c. If no: When did you last live there?	
29d. <u>If no</u> : How long did you live there?	
30. Have you ever lived in a country other than the United Yes – where?	• •
□ No	
30a. If yes: When did you last live there?	
30b. If yes: How long did you live there?	
31. Since living in the United States, how many times have $\square$ Never – this will be my first time $\square$ 1	□ 3 □ 4
☐ 2 32. Where were your parents born? (Country): Mom:	☐ 5 or more times
32. Where were your parents born: (Country). Mon.	Dau
33. How would you describe your race/ethnicity?	
34. What is the highest level of education you completed	d?
☐ Grade school	Associate degree / some college /
☐ Some high school	post-secondary training
☐ High school	☐ Bachelor's degree
	☐ Graduate school
<ul><li>35. Primary care doctors are doctors you go to for check you go to a primary care doctor?</li><li>Yes</li></ul>	ups and health problems that aren't emergencies. Do
□ No	
35a. If yes, when is the last time you went to your primar	ry care doctor?
☐ Within the last month	
☐ Within the last 6 months	
☐ Within the last year	
☐ 1-2 years	
☐ More than 2 years ago	
36. Additional notes:	

#### **Malaria Survey - Information for Participants**

We are inviting you to complete a short survey about malaria. Malaria is a disease that exists in many tropical countries of the world. The Minnesota Department of Health (MDH) is organizing this study. Please take some time to read this form or talk about this information with the research assistant.

#### 1. WHAT IS THE REASON FOR THIS SURVEY?

This survey is research to learn about travelers and malaria. We want to learn about the experiences of people like you who visit friends and relatives in places with malaria. We hope to work with the local community, doctors, and hospitals to help people avoid getting malaria while traveling.

#### 2. WHAT WILL I BE ASKED TO DO?

If you agree to take part in this study, we will ask you to participate in a 10-minute survey. We will ask you questions about your knowledge of malaria and attitudes towards malaria. You will enter your responses into the survey. If the survey is being done with a research assistant, he/she will write down your responses on the computer or paper survey form. Your identity or answers will not be shared with anyone outside the study team.

#### 3. IS PARTICIPATION VOLUNTARY?

Yes. Your participation in this survey is voluntary. You have the right to not answer any questions if you don't want to. You also have the right to stop participating in the survey at any time. There are no penalties or consequences if you decide that you do not want to participate. Your relationship with MDH, and their staff/employees will not be affected or harmed if you decided you do not want to participate in this survey.

#### 4. WHAT IF I HAVE QUESTIONS?

We will be happy to answer any questions you have about this study. If you have concerns or questions about this study, please contact: Hannah Volkman, Survey Coordinator at 651-201-5414 or <a href="mainto:hannah.volkman@state.mn.us">hannah.volkman@state.mn.us</a> For questions about your rights as a participant in this study, contact the Minnesota Department of Health Institutional Review Board, at 651-201-5942. You may download a copy of the information provided on this page if you would like to refer back to this information.

The manager provided on the page in you make to receive about to the morning and	
☐ I understand participation in the survey is voluntary and consent to participate	

### **INCLUSION CRITERIA**

	Please return this i	page to the staf	f member to	review to see if	you are eligible to	participate.
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1.	Are you 18 years of age or older?  ☐ Yes ☐ No
2.	Were you born in a Sub-Saharan African country?  Yes. What country?  No Were your parents born in a Sub-Saharan African country?  Yes. Where was your mom born? Where was your dad born? No
3.	In the past 10 years, have you traveled from the US to any country in Africa?  Yes  When was the last time? Where did you go?  No  Do you plan to travel to a county in Africa in the next one year?  Yes  Where? No
4.	Do you live in the United States?  Yes  No
5. I	Have you heard of malaria?  Yes  No

# IF you have traveled in the past please answer all questions about your most recent trip

	ease rate the for Not true	ollowing stateme	nts on a scale of 1 to 3 – Somewhat		5 – Very true/always true
1.	How true are	the following sta	tements?		
	1a. I am conc	erned for myself	about getting malari	a when traveling	
	1	2	3	4	5
	1b. Malaria c	an be a deadly dis	sease		
	1	2	3	4	5
2.	How do peop	ole get malaria? Y	ou may list multiple	ways.	
3.	Can you prev	ent malaria?			
		an you prevent m	nalaria?		
	No				
		er had malaria?			
	Yes No				
	I don't know				

Now I'd like to find out more about your **most recent past trip** / the trip you plan to take

5.	What were the main reasons for your travel? / What are the main reasons you are going to travel?
	If more than one rank primary (#1), secondary reasons (#2), etc.
	Visit friends or relatives Business
	Vacation – not visiting friends or relatives
	Studying abroad / research
	Studying abroad / research
	Other:
6.	What country(ies) did you travel to? / What country(ies) will you travel to?
7.	How long were you on your trip? / How long will you be on your trip? (indicate weeks)

8.	Did you talk to someone about avoiding malaria before you left? / Will you talk with someone about avoiding malaria before you go?
	☐ Yes Who did you talk to? / Who will you talk to?  No
9.	Did you see a healthcare provider before you left? / Do you plan to see a healthcare provider before you go?  Yes → Was / Is it your regular healthcare provider, travel clinic, or somewhere else?  Regular healthcare provider (primary care)  Travel clinic  Both regular healthcare provider and travel clinic  Urgent care  Pharmacy / minute clinic  Other:  No – Why not?

10. During your most recent trip did you use any of the following strategies to keep mosquitos away or stay healthy? / Do you plan to use any of the following strategies to keep mosquitos away or stay healthy?				
Yes	·	Bed nets		
☐ Yes	∐ No	Repellent / creams / sprays / lotions		
☐ Yes	□No	Mosquito coils		
☐ Yes	□No	Staying indoors when mosquitoes are out		
☐ Yes	□No	Wear long clothing		
☐ Yes	☐ No	Educate yourself on risks of malaria before traveling		
☐ Yes	□No	Pick where you stayed in order to avoid mosquitos (Air conditioning/screens)		
<u></u> -	•	vention medicine during your last trip? In taking the medicine after you got back? Yes No Don't recall		

12. Since living in the United States, do you think you have gotten malaria while traveling outside of the US?
☐ Yes  Answer 12a-12d on the <b>last</b> time you thought you had malaria while traveling outside the US:  Did you end up seeing a healthcare provider when you thought you had malaria?
Yes
12a. What made you decide to seek care?
12b. Were you tested for malaria?  Yes Don't know / don't remember
12c. Did a healthcare provider tell you that you had malaria? YesNo Don't know / don't remember
12d. How many times did you see a healthcare provider before you were told you had malaria?  ☐ One ☐ Two ☐ Three ☐ Four or more ☐ Don't remember
No → Why not?
12f. Did you try to treat yourself?
Yes
☐ No 12g. Anything else to share about the last time you got malaria while traveling outside the US?
13. Imagine you just got back to the United States from a trip to [country of travel] and started to feel symptoms of malaria such as fever and chills. Would you go to the doctor right away or try to treat it yourself at home first?
☐ I would go to the doctor right away. Why?
☐ I would try to treat it at home first. Why?

14.		Do you have any concerns about seeing a healthcare provider if you had malaria symptoms?  Yes. Please explain:				
		No No				
15.		If you traveled again to [country], where would you seek advice on your health before you leave?				
16.		The next time you travel to [country], will you take a malaria prevention medication if recommended?  Yes  No Why not?				
17.		In your opinion, what would be the best way to educate people about malaria?				

18.	Gender         □ Male         □ Female         □ Other:
19.	Age:
20.	Were you born in the United States?  Yes  No  20a. If no: How long have you lived in the US?  20b. If no: Where were you born? (Country):  20c. If no: When did you last live there?  20d. If no: How long did you live there?
21.	Since living in the United States, how many times have you traveled to places with malaria/ Africa?  Never – this will be my first time  1 2 3 4 5 or more times
22.	Where were your parents born? (Country): Mom: Dad:
23.	What is the highest level of education you completed?  Grade school Some high school High school Associate degree / some college / post-secondary training Bachelor's degree Graduate school

THANK YOU FOR COMPLETING THE SURVEY!!

Target Population: All prospective travelers to Africa visiting a HealthPartners travel clinic that speak one of the four survey languages.				
Survey	English French Somali Amhari			
	Chart: Chart: Ask:	Presenting to a HealthPartners travel clinic in stable condition (non-critical)  18 years of age or older  Traveling to Africa in the next 1 year (from clinic visit)  Resides in the United States  Has heard of malaria before		
	Yes →II	ard of malaria? (Record "No" responses) NCLUDE DOES NOT FIT INCLUSION CRITERIA		
	Yes → I	n Minnesota or in the United States? (Record "No" responses) NCLUDE DOES NOT FIT INCLUSION CRITERIA		

---IF PATIENT FULFILLS ALL INCLUSION CRITERIA ABOVE, COMPLETE ENROLLMENT PROCESS BEFORE BEGINNING SURVEY ---

#### INFORMATION AND CONSENT FORM

Program Title: Reducing U.S. Malaria by Testing Multiple Interventions

#### **HealthPartners Investigator:**

Pat Walker, MD, MPH HealthPartners Institute 8170 33rd Ave S Mail Stop 23301A Bloomington, MN 55425-1524

**Telephone Number:** 952-967-7956

We are inviting you to participate in a research study about malaria. Malaria is a disease that exists in many tropical countries of the world. HealthPartners is working with the Minnesota Department of Health (MDH) on this study.

#### 1. WHAT IS THE PURPOSE OF THIS STUDY?

The purpose of this study is to talk about ways to prevent getting malaria when traveling in Africa. We want to learn about the experiences of people like you who visit friends and relatives in places with malaria. We hope to work with the local community, doctors, and hospitals to help people avoid getting malaria while traveling.

#### 2. WHO IS SPONSORING THE STUDY?

HealthPartners Institute is receiving financial support from MDH ("the Sponsor") to assist in conducting this research study. The amount of payment is enough to cover the study doctor's and/or institution's expenses to perform the study.

#### 3. WHAT WILL I BE ASKED TO DO?

If you agree to take part in this study, we will ask you to participate in a 20-minute survey. We will ask you questions about your knowledge of malaria and your thoughts towards malaria. The research assistant will write down your responses on the computer or paper survey form. Your identity or answers will not be shared with anyone outside the study team.

We will also ask you to participate in a 5-minute phone call survey after you return to the United States.

#### 4. ARE THERE ANY RISKS OR BENEFITS IN PARTICIPATING?

There are no anticipated risks to you for participating in the survey. Study subjects may experience some emotional discomfort from recalling experiences with malaria. The research assistants will make a conscious effort to reduce potential risks. You may or may not benefit from this study.

#### 5. IS PARTICIPATION VOLUNTARY?

**Yes.** Your participation in this survey is voluntary. Your decision whether or not to partake in this study is completely voluntary and will not affect your current, or future relations, with HealthPartners or any of its providers. You have the right to not answer any questions if you don't want to. You also have the right to stop participating in the survey at any time.

The information you provide us for this study will be kept confidential and you will never be identified in any report or publication in regards to this study. At the end of the study, all forms with your name or other identifying information will be destroyed.

#### 6. Will I be paid to participate?

You will be paid a \$10 Target gift card for participating today. We may have to report this payment to the IRS, but your identity or answers will not be shared with the IRS.

#### 7. WHAT IF I HAVE QUESTIONS?

We will be happy to answer any questions you have about this study. If you have concerns or questions about this study, please contact: Alison Helm at 952-883-6076 or <a href="mailto:alison.m.helm@healthpartners.com">alison.m.helm@healthpartners.com</a>

For questions about your rights as a participant in this study, you may call the Office of Research Subjects at 952-967-5268.

Version 12.26.2017

\*\* Note to interviewer: unless instructed to do so below, do <u>not</u> read answers to respondents. \*\*

# Section 1: Malaria Knowledge

	ant to understand was a scale of 1 to 5:	vhat you know ab	out malaria. I'll re	ad you	u a few statem	nents and ask you to rate them
	· Not true	\$	3 – Somewhat true	:		5 – Very true/always true
1.	How true are the fo	ollowing statemen	ts?			
	1a. I am concerned	for myself about	getting malaria wh	en tra	veling	
	1	2	3	4	4	5
	1b. Malaria can be	a deadly disease				
	1	2	3	4	4	5
2.	When traveling to a  You / Adult Child Equally like	:	, who is more likel	y to be	ecome sick fro	m malaria – you or your child?
3.	How do people get  From mosq From drink  Other (plea	juitoes		☐ F	rom bad air	ers) person <i>(prompt with clarifier #4)</i>
1.	Can people catch m  Direct means sprea  Yes  No	•	· ·		s sick with mal	aria?
5.	Can you prevent m  Yes	alaria?				
	☐ Inse	nunizations/shots ect repellent er (describe):			☐ Bed ne☐ Take m	ets nedications 
	Have you ever had		are and infectio	<b>'11</b>		
ο.		IIIdidi id :				
	☐ Yes ☐ No					
	☐ Don't k	now				

# **Section 3: Upcoming Trip**

Now I'd like to find out more about your upcoming trip						
7.	. Where will you travel to? (List specific country[ies])					
8.	How long will you be on your trip? If unknown, approximate:					
	9. What are the main reasons you are going to travel?  If more than one rank primary (#1), secondary reasons (#2), etc.  Visit friends or relatives  Business  Vacation – not visiting friends or relatives  Studying abroad / research  Mission trip  Other:					
	. Do you plan to use any of the following strategies to keep mosquitos away or stay healthy? a going to list a few examples and you can respond: yes, no, or sometimes					
An	☐ Yes       ☐ No       Repellent / creams / sprays / lotions         ☐ Yes       ☐ No       Mosquito coils         ☐ Yes       ☐ No       Environmental cleanup i.e., removing sources of standing water         ☐ Yes       ☐ No       Staying indoors when mosquitoes are out         ☐ Yes       ☐ No       Wear long clothing         ☐ Yes       ☐ No       Practice good food safety / hygiene         ☐ Yes       ☐ No       Ensure clean water source (safe, bottled)         ☐ Yes       ☐ No       Educate yourself on risks of malaria before traveling         ☐ Yes       ☐ No       Pick where you stay in order to avoid mosquitos (AC/screens)         ☐ Yes       ☐ No       Get vaccinations         ything else?					
11.	. Did someone tell you to come to this travel clinic?					
	<ul> <li>Yes, Who?</li> <li>□ Primary care provider / family physician / "regular" doctor</li> <li>□ Friend or family member</li> <li>□ Insurance provider</li> <li>□ Other:</li> <li>□ No, I chose to come to the travel clinic on my own</li> </ul>					
12.	. Why did you choose to visit the travel clinic before your trip?  Need immunization required for travel Generally, want to prevent illnesses while traveling Specifically, want to prevent malaria while traveling Referral from question 11 Other:					

others?
□ No
☐ Yes → Why? (check all that apply)
Only certain family members covered by insurance
Cost
☐ Risk of illness
☐ Age (very young or very old
☐ Pregnancy
□ Other:
**If participant is traveling for the first time, SKIP to question 23**
Section 4: Previous Travel and Antimalarial Use
14. Have you traveled from the United States to Africa before?
☐ Yes
☐ No, this will be my first time traveling from the US to Africa
15. Did you take a malaria prevention medicine during your last trip?
<ul><li>☐ Yes → Did you finish taking the medicine after you got back?</li><li>☐ Yes ☐ No</li><li>☐ Don't recall</li></ul>
☐ Sometimes → Did you finish taking the medicine after you got back? ☐ Yes ☐ No ☐ Don't recall
<ul><li>16. Did a healthcare provider write you a prescription for a malaria prevention medicine?</li><li>☐ Yes</li><li>☐ No</li></ul>
16a. If yes, did you pick up the medicine in the US or once you arrived to your destination?
☐ Picked up the medicine in the US
☐ Picked up the medicine in destination country
If 15 is yes/sometimes and 16 is no, clarify: Did you buy the malaria prevention medicine without a prescription once you arrived to your destination?
☐ Yes
□ No – Explain:
Section 5: Traveling with Children
17. On your last trip did any children travel with you?
Yes – if yes, how many? How old were they?
□ No Skip to question 18
17a. <u>If yes</u> , did the child/ren take a malaria prevention medicine during your last trip?
☐ Yes → Did the child finish taking the medicine after he/she got back? ☐ Yes ☐ No ☐ Don't recall
∐ No
☐ Sometimes→Did the child finish taking the medicine after he/she got back? ☐ Yes ☐ No ☐ Don't recall

17b. Did a healthcare provider write your child/children a p  Yes  No  17c. If yes, did you pick up the medicine for your child/ren in  Picked up the medicine in the US  Picked up the medicine in destination count	n the US or once you arrived to your destination?			
If 17a is yes/sometimes and 17b is no: Did you buy the mala a prescription once you arrived to your destination?  \[ \sum \text{Yes} \] \[ \sum \text{No Explain:} \]	aria prevention medicine for your child/ren without			
Section 6: Illnesses During Travel and Healthcare	Seeking Behaviors			
18. Since living in the United States, do you think you have a ☐ Yes ☐ No − Skip to question 23	gotten malaria while traveling outside of the US?			
<ul> <li>19. When you noticed your symptoms, where was the first pillness?</li> <li>Family or friend abroad</li> <li>Healthcare provider abroad</li> <li>Family or friend in US</li> <li>Primary care in US</li> </ul>	Urgent care/ER in US Travel clinic in US Internet Other:			
20. Did you try to treat yourself before seeking medical care ☐ Yes ☐ No	?			
20a. If yes, why? (Check all that apply):  Doctors in the US don't know about malaria Going to the doctor is too expensive I knew it was malaria and how to treat it I already had the medicine Other:	☐ Buying medicine is too expensive ☐ Didn't know it was malaria ☐ Malaria is easy to treat ☐ Malaria is not a serious problem			
20b. If yes, what did you do to treat yourself? (Check all that apply):  Took malaria medication. What medicine?				
Took majaria medication. What medicine?  Took medication for fever and/or pain? (e.g. and the state of the st	g. Tylenol, ibuprofen, paracetamol)			
21. Did you end up seeing a healthcare provider when you t  Yes (answer questions 21a through 21d)  21a. What made you decide to go?				

21b. Were you to	ested for malaria? Don't know / don't remember				
21c. Did a healthcare provider tell you that you had malaria?  Yes No Don't know / don't remember					
☐ One ☐ Tw  No, 21f.  □ □ □ □ □ □	times did you see a healthcare provider before you were told yo   Three   Four or more   Don't remembe   If no: Why not? I got better on my own   Malaria is easy to treat   Malaria is not a serious problem   I already had the medicine   Buying medicine is too expensive   Going to the doctor is too   expensive				
malaria befo  Yes -	ing from any trip to a country with malaria, have you ever self ore or instead of going to a doctor? — <b>Go to 22a.</b> - I did not try to self-treat the child before going to the doctor - Child has never seemed sick with malaria — <b>Go to 23.</b>				
	P (Check all that apply):  Malaria is easy to treat  Malaria is not a serious problem  Didn't know it was malaria  I already had the medicine  Buying medicine is too expensive  Going to the doctor is too  expensive	☐ I knew it was malaria and how to treat it ☐ Doctors in the US don't know about malaria ☐ Other:			
<ul> <li>22b. If no, why not? (please explain):</li> <li>23. Imagine you just got back to the United States from a trip to [country of travel] and started to feel symptoms of malaria such as fever and chills. Would you go to the doctor right away or try to treat it yourself at home first?</li> <li>I would go to the doctor right away. Why?</li> <li>Malaria is dangerous/serious</li> <li>Doctors can prescribe antimalarial medicines</li> </ul>					
	Other:  try to treat it at home first. Why?  Malaria is easy to treat; I know how to treat it  Malaria is not a serious problem  Going to the doctor is too expensive  Doctors in the US don't know about malaria  Doctors in the US would treat me bad / fear of being quarant  Other:	tined			

24. Do you have any concerns about seeing a healthcare provider if you had malaria symptoms?  Yes. Please explain:				
□ No				
Section 7: Future Plans				
25. Besides this travel clinic visit, where do you plan to seed Check all participant mentions  ☐ Internet ☐ Travel agent ☐ Pharmacy ☐ Urgent care ☐ Primary care ☐ Travel clinic  26. Do you plan to take a medication to prevent malaria if t	☐ Friends / family ☐ Community leaders ☐ CDC / MDH ☐ Other: ☐ Not going to seek advice  Why not?			
Yes				
27. In your opinion, what would be the best way to educate	e people about malaria?			

# **Additional Demographic Information**

28. Gender	
☐ Male	29. Age:
☐ Female	If older than 89 years, list ">89"
☐ Other:	
30. Were you born in the United States?	
Yes	
□ No	
30a. <u>If no</u> : How long have you lived in the US?	
30b. <u>If no</u> : Where were you born? (Country):	<del></del>
30c. <u>If no</u> : When did you last live there?	
30d. <u>If no</u> : How long did you live there?	<del></del>
31. Have you ever lived in a country other than the Ur  Yes – where?	· ·
□ No	
31a. If yes: When did you last live there?	
31b. If yes: How long did you live there?	
32. Since living in the United States, how many times I  Never – this will be my first time back	□ 3
<u> </u>	□ 4
□ 2	☐ 5 or more times
33. Where were your parents born? (Country): Mom:	Dad:
34. How would you describe your race/ethnicity?	
35. What is the highest level of education you comple	ted?
☐ Grade school	☐ Associate degree / some college / post-
☐ Some high school	secondary training
☐ High school	☐ Bachelor's degree
	☐ Graduate school
	ckups and health problems that aren't emergencies. Do
you go to a primary care doctor?	
☐ Yes	
□ No	Create de care
36a. If yes, when is the last time you went to your prin	hary care doctor?
☐ Within the last month	
☐ Within the last 6 months	
☐ Within the last year	
☐ 1-2 years	
☐ More than 2 years ago  37. Additional notes:	
37. Additional notes.	

## POST TRAVEL FOLLOW UP SURVEY (PHONE CALL)

1. During your most recent trip did you use any of the following strategies to keep mosquitos away or stay healthy?

I'm going to list a few examples and you can respond: yes, no, or sometimes					
	l Yes □ No	☐ Sometimes	Bed nets		
	l Yes 🗌 No	☐ Sometimes	Repellent / creams / sprays / lotions		
	l Yes □ No	☐ Sometimes	Mosquito coils		
	l Yes □ No	☐ Sometimes	Environmental cleanup i.e., removing sources of standing water		
	l Yes □ No	☐ Sometimes	Staying indoors when mosquitoes are out		
	l Yes □ No	☐ Sometimes	Wear long clothing		
	l Yes 🗌 No	☐ Sometimes	Practice good food safety / hygiene		
	Yes 🗌 No	☐ Sometimes	Ensure clean water source (safe, bottled)		
	l Yes □ No	☐ Sometimes	Educate yourself on risks of malaria before traveling		
		☐ Sometimes	Pick where you stayed in order to avoid mosquitos (AC/screens)		
		☐ Sometimes	Get vaccinations		
Anything e			<del></del>		
2. Dia yo	<ul> <li>2. Did you take a malaria prevention medicine during your last trip?</li> <li>☐ Yes → Did you finish taking the medicine after you got back? ☐ Yes ☐ No ☐ Don't recall</li> <li>☐ No</li> <li>☐ Sometimes → Did you finish taking the medicine after you got back? ☐ Yes ☐ No ☐ Don't recall</li> </ul>				
<ul> <li>Did a healthcare provider write you a prescription for a malaria prevention medicine?</li> <li>Yes</li> <li>No</li> <li>If yes, did you pick up the medicine in the US or once you arrived to your destination?</li> </ul>					
☐ Picked up the medicine in the US					
☐ Picked up the medicine in destination country					
If 2 is yes/sometimes and 3 is no, clarify: Did you buy the malaria prevention medicine without a prescription once you arrived to your destination?  Yes  No – Explain:					
4. On you	ur last trip did a	any children travel v	vith you?		
	Yes – if yes	, how many?	How old were they?		
	No <b>Skip to</b>	question 5			
4a. <u>If yes</u> , (	☐ Yes → Di recall ☐ No	d the child finish tal	evention medicine during your last trip?  king the medicine after he/she got back?   Yes   No   Don't  Don't hish taking the medicine after he/she got back?   Yes   No		

4b.	Did a healtho	care prov	ider write your child/c	hildren a prescr	ription for malaria prevention medicine?	
	☐ No					
4c.	4c. If yes, did you pick up the medicine for your child/ren in the US or once you arrived to your destination?					
			the medicine in the U		, , , , , , , , , , , , , , , , , , , ,	
			the medicine in desti			
15 4				-	variantian mandiaina familalum ahildum viitha atta	
			rived to your destination		revention medicine for your child/ren without a	
<b> </b>		-	,			
		No Explai	in:			
5.	<u> </u>		nny of the following he			
			Don't remember		Temperature?	
		_	Don't remember			
			☐ Don't remember	Body aches		
	☐ Yes	☐ No	☐ Don't remember	Diarrhea		
	☐ Yes		☐ Don't remember	Nausea		
	☐ Yes	☐ No	☐ Don't remember	Vomiting		
	☐ Yes	☐ No	Don't remember	Mosquito bite	es .	
	☐ Yes	☐ No	Don't remember	Heat distress		
	Yes	☐ No	Don't remember	Fainting		
	Yes		Don't remember			
	☐ Yes	_	Don't remember		Describe:	
	☐ Yes	☐ No	Don't remember	Animal bite	Describe:	
6.	While you w	ere in	did you go to the	hospital or a cl	inic for any personal health issues?	
	☐ No		, 0	·	, .	
	☐ Yes Please describe:					
7	Afterveure	turned to	the United States did	lvou so to the k	nospital or a clinic for health issues that could	
7.	-		your travel?	i you go to the i	lospital of a cliffic for fleatth issues that could	
	□ No	,	,			
	☐ Yes	Please (	describe:			
Q	Did anyone	travelling	with you go to the ho	snital or a clinic	for any health issues while you were travelling?	
0.		i aveiii ig	, with you go to the no.		Tor any ficaltif issues write you were travelling:	
		Please (	describe:			
9.	•			•	ing with you go to the hospital or a clinic for	
	health issues that could have been caused by the travel? $\square$ No					
		Please (	describe:			