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ATTACHMENT E: Case-control Telephone Interview

Hello, my name is	from the Puerto Rico Department of Health in collaboration with the
Centers for Disease Cont	ol and Prevention. Could I please speak with [name]?
different services that ha and their babies from Zik women who were tested minutes (less than 25 min received in the past few i	I am partnering with WIC and the Puerto Rico Department of Health to evaluate we been offered to pregnant women in order to help them protect themselves a. We are also trying to learn more about the best ways to prevent Zika among for Zika virus by their doctor. Would you be willing to talk with me for a few nutes) about your experience and the types of Zika prevention services you months? Everything we discuss will be kept confidential. It will help us know ob of helping you and other pregnant women in Puerto Rico.
No – thank you for your t Yes, [If yes, are you over	ime! Have a nice day. [End interview] 18 years of age]
Great! Thank you for you	r willingness to share your opinions with me.
Your doctor reported tha correct?	t you had blood drawn for a Zika test on <specimen collection="" date="">. Is that</specimen>
\square No [Stop the in \square Yes – continue	-

I would like to ask you some questions about the three months before you had your blood drawn. It might be helpful to look at a calendar to help remember your activities during that time; do you have a calendar that you can use?

Your opinions will help us improve the types of services we can offer women. I have just a few questions that will take less than 25 minutes. If we get disconnected, I will call you back.

Before I begin I want to go over a couple of items:

- This interview is voluntary. You can decline to answer any question and you can end our conversation at any time
- There are no right or wrong answers. I am interested in your opinion. If you don't understand the question, feel free to let me know and I can ask it another way. This is not a test, so feel free to say you don't know or don't have an opinion to offer and "I don't know" is a perfectly acceptable response to any question I ask you.
- The information you provide today will not be shared with anyone except those involved in this project. It's important to know that the questions I'm about to ask you will not affect your eligibility for WIC services in any way. Our reports will include the responses of ALL the women who talk with us so that you can provide honest answers without worrying that your answers will hurt you in any way.

Public reporting burden of this collection of information is estimated to average 20 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Information Collection Review Office, 1600 Clifton Road NE, MS D-74, Atlanta, Georgia 30333; ATTN: PRA (0920-1118).

Do you have any questions before we begin?

First, I'd like to ask you questions about materials or supplies you might have received from the WIC program.

1.	Have you heard of Zika Prevention Kits? ☐ Yes continue to question 2 (ZPK receipt) ☐ No
	No or if unsure what ZPKs are: The Zika Prevention Kit is a tote bag that contains educational information from the Puerto Rico Health Department and the Centers for Disease Control and Prevention about how to prevent Zika infection while you are pregnant along with items that could help prevent Zika virus infection. Items in the kit include: a mosquito bed net, mosquito repellent, condoms, and some include mosquito dunks (larvicide) and thermometers.
2.	Have you received a Zika Prevention Kit? ☐ No – skip to Q11 (Did you attend an educational session about Zika?) ☐ Yes What day did you receive the ZPK? Date:
3.	When you received the Zika Prevention Kit, what color was the tote bag? White Blue Green Other, please specify: Don't know/Not sure Refused
4.	Did you open your Zika Prevention Kit? ☐ No (skip to Q7, educational session) Why not? ☐ Refused ☐ Yes
5.	What did the information in the kit say you need to do? (Probe for use repellents, use bed net use condoms, etc.) [Don't read options – wait for response] Use insect repellant Sleep under bed net Put mosquito dunks in standing water Use condoms/don't have unprotected sex Go to doctor if ill Other, please specify:
6.	What items were included in the kit? (Do not read, tick all mentioned) ☐ Repellent ☐ Bed net ☐ Mosquito dunks

	☐ Condom(s)
	☐ Thermometer
	☐ Educational materials
	☐ Other, please specify:
7.	Did you use up any of the items that were included in the Zika prevention kit? Which items? Yes, which items
	Repellent
	Condoms Magguita dunks (or other langisida)
	Mosquito dunks (or other larvicide) Mosquito bed net
	No – skip to Q9
	Don't know/not sure
	Refused
8.	Did you purchase any items to replace the items in the kit that you used up (or needed to replace)?
	Yes, which items
	Repellent
	Condoms
	Mosquito dunks (or other larvicide)
	Mosquito bed net
	No, why not?
	Do not have money to buy
	Items are too expensive (too costly)
	Am embarrassed to buy (e.g., condoms)
	Do not feel I need them (they don't offer protection) Other, please specify:
	Don't know/not sure
	Refused
9.	If you got to say what items should go into a Zika Prevention Kit to help pregnant women in
	Puerto Rico to protect themselves from getting infected with Zika, what items would you put in the kit?
	I would include the same items that are there now
	I would include more (a current item)
	I would add (new items)
	I would do something else entirely (specify) Don't know/not sure
	Refused
	For any items that are not currently included in the Zika Prevention Kit, ask them
	why they would put the particular item in the kit? What protection do they think it offers?
10.	Did you attend an educational session at WIC that provided information about Zika? □ No

	☐ Don't know/not sure
	☐ Refused
	☐ Yes - What day did you attend the educational session?
	Date:
	☐ Don't know/refused
11. Did you	receive educational materials (handouts, written information) about Zika from WIC?
	□ No
	☐ Don't know/not sure
	☐ Refused
	□ Yes
	What day did you receive the materials?
	Date:
	☐ Don't know/refused

Now, I'm going to ask more questions about your activities in the 3 months before you got blood drawn for the Zika test. It might be helpful to look at a calendar to help remember this time period. For most of the questions, I'll be asking from now on, think about what you did in that period of time.

12. During the time three months before you had blood drawn for the Zika test, how often did you put mosquito repellent on skin that was not covered by clothing?

Never or almost never

Seldom or rarely

Sometimes

Often

Usually or most of the time

Always or almost always

Refused

12a. If yes to any repellant use and received ZPK: Did you use the repellant from the ZPK?

Yes

No

Refused

- 13. During that same time, how often did you wear long pants?
 - a. Never or almost never
 - b. Seldom or rarely
 - c. Sometimes
 - d. Often
 - e. Usually or most of the time
 - f. Always or almost always
 - g. Refused

- 14. During that same time, how often did you wear a long-sleeved shirt?
 - a. Never or almost never
 - b. Seldom or rarely
 - c. Sometimes
 - d. Often
 - e. Usually or most of the time
 - f. Always or almost always
 - g. Refused
- 15. During that same time, how often did you or somebody else in your household remove accumulated water and cover up or screen water containers inside and around your home (on your property)?
 - a. Never or almost never
 - b. Seldom or rarely
 - c. Sometimes
 - d. Often
 - e. Usually or most of the time
 - f. Always or almost always
 - g. Refused
- 16. During that same time, did you ever put a mosquito dunk, or larvicide, in accumulated water around your home?
 - a. Never or almost never
 - b. Seldom or rarely
 - c. Sometimes
 - d. Often
 - e. Usually or most of the time
 - f. Always or almost always
 - g. Refused
 - 16a. If yes and received ZPK, did you use the mosquito dunk from the Zika Prevention Kit?

Yes

Nο

Refused

- 17. During that same time, did you usually sleep under a mosquito net when you slept or took a nap?
 - a. Never or almost never
 - b. Seldom or rarely
 - c. Sometimes
 - d. Often
 - e. Usually or most of the time
 - f. Always or almost always
 - g. Refused
- 17a. If yes and received ZPK, did you use the mosquito net from the Zika Prevention Kit?

Yes No Refused

The next questions are about sexual relations with your husband or male partner. Again, everything we discuss will be confidential.

18. During the three months before you had blood drawn for the Zika test, did you have sexual intercourse [that is, vaginal, anal, or oral (mouth-to-penis) sex] with your male partner?

No,

After recording response, go to question 21

۷es

Prefer not to answer

19. When you had sex during that same time, how often did you use a condom?

Every time I had sex \rightarrow Go to question 22

Sometimes when I had sex \rightarrow Go to question 22

I never used a condom when I had sex \rightarrow Go to question 23

Prefer not to answer

20. If used condoms and received ZPK, Did you use condoms from the Zika Prevention Kit?

Yes

No

Refused

21. Is there anything that we haven't discussed that you have been doing to reduce the risk of mosquito bites to avoid getting Zika virus during the three months before you had blood drawn for the Zika test?

No

Yes, What?

Staying indoors

I moved to/spend more time in another location with fewer mosquitoes, or better housing

I have sprayed my house with pesticide by myself or my family

I have had a business come spray my house

Burn mosquito coils

Use mosquito zapper rackets

Other, please specify:

Refused

Questions about insecticide services for pregnant women

READ: Indoor residual spraying (IRS) is when specially trained professionals spray insecticide inside of the home in and on the places that mosquitoes like to rest – usually dark and moist places. Examples of places are under tables, behind furniture, under beds and cabinets with sinks, and by dirty laundry. The spraying can be done anytime during the day and usually will kill mosquitoes for about three months. IRS is most effective when most houses in a neighborhood have their homes sprayed.

sprayin	gre under tables, benind furniture, under beds and cabinets with g can be done anytime during the day and usually will kill mosque effective when most houses in a neighborhood have their homes	uitoes for about	
22.	Have you been offered spraying services for your home? [or Have you to offer you spraying services for free?]	as anyone calle	d you/contacted
	Yes No (skip to question 24) Don't know/not sure Refused		
23.	Did you receive spraying services at your home? (or has your h Yes When did the spraying services occur? Date: Don't know/not sure Refused	iome been spra	yed already?)
24.	During the three months before you had blood drawn for the Z following activities in your community? Read the list and for ease it or Yes, if they did it.		· ·
	a. Municipality workers applying larvicide	No	Yes
	b. Fumigation trucks spraying insecticide		
	c. Efforts to clean up trash and remove tires		
	d. Community meetings to discuss Zika		
	e. Messages telling the community to eliminate accumulated	water [
	f. Volunteers going to homes to teach about reducing mosquito breeding sites		
	g. Volunteers helping to install screen windows and doors		
	h. Neighbors or volunteers putting mosquito traps around hor	mes [
	i. Neighbors or workers fixing septic tanks, covering pipes		
	j. School events about Zika		

	k. Other, please sp	pecify:				0 0	
Questic	ons about mosquito	es in their en	vironment (en	vironmental	stimuli)		
For all t	he questions I'm abo	out to ask, try	/ to think about	the three n	nonths befo	ore you had b	olood drawn
25.	During an average in this community of		am – 7pm, how	many hours	s (maximun	n 12) are you	at home or
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Nı	umber	raesaay	Wearlesday	marsaay	Triday	Sataraay	Januay
	hours						
	- 12)						
27.	In those three montown Rent Occupy without pay Live in public housin Other, please specif Refused In what zipcode did a. Please specif Did you have any ai No, none Yes in one room, us Yes, in one room us Yes in more than or	ying rent (live ng fy: you live? ify: r conditioning sed at night sed all the tim	with family or	friend)			
29.	Did the home when windows that open Not on any windows On some windows On all windows Don't know/not sur Refused	?	ve any screens	(escrines, te	ela metalico	o, tela mosqu	itero) on
30.	How about screens None on the doors On some doors On all doors	on the doors	s that open?				

Don't know/not sure

Refused

31. Do you work outside your home? Yes
No
Refused
32. Think about the place where you spend the most time when you're not at home. This could be the place where you work (if applicable) or a friend or relative's home. How would you describe that place or building in terms of open-ness between the indoors and outdoors? Would you say that the environment is? (read each statement and select ONE that best describes the environment) a. Completely outdoor ("open air") with either no windows or doors with screens b. Partially indoor and outdoor with some windows or doors having screens c. Completely Indoor with all windows and doors having screens d. Indoor with air conditioning e. Other (please describe):
 33. What is the highest grade (or year) of regular school you completed? a) Elementary/Middle school b) High school c) College/Junior College d) Graduate degree
34. How many people are currently living in your household, including yourself? a. Number:
35. Of these people, how many are children ≤18 years old? a. Number:
36. Which of these categories best describes your total combined household income for the past 12 months? This should include income (before taxes) from all sources. a. <\$25,000 b. \$25,000 - <\$50,000 c. \$50,000 - <\$75,000 d. \$75,000 - <\$100,000 e. >\$150,000 f. Don't know/not sure g. Refused
37. During the three months before had blood drawn for the Zika test, did any members of your household have an illness with rash, fever, or body pain? No [Skip to question 38]
Yes
How many people were ill?

Did this include your sex partner or husband?
Were they tested for Zika?
No
Don't know/not sure
Refused
Yes
Did a healthcare provider tell them they had Zika?
Yes
No
Don't know/not sure
Refused

Their opinion about what is needed and how to reach pregnant women

38. What do you think is needed or that needs to happen in order to protect pregnant women from getting infected with the Zika virus? [capture verbatim responses]

Thank you for answering these questions! Your answers will help us in our efforts to keep pregnant women and their babies healthy.

Do you have any more questions?