Hurricane Maria Hospital Recovery Survey Instrument Wave2 Qualtrics Screenshots

	English	~
Consent Language - IF SURVEY IS TAKEN BY PHONE		
Enter the interviewer name:		
\${e://Field/UID}		
\${e://Field/NAME} \${e://Field/ADDRESS}		

The survey may be recorded for quality training purposes. If you feel uncomfortable answering any of the questions, you can skip them, or stop the survey at any time. Your participation is voluntary and without compensation. If you decide to participate in the study, you may withdraw your consent and stop participation at any time without penalty.

Your responses will never be linked to your individual identity or the identity of your hospital. Instead, findings will be attributed to a "hospital" at the commonwealth, regional, municipal, or ZIP code level. In cases where there is only one hospital in the municipality or ZIP code, the information collected will be combined or aggregated with information that we obtain from other hospitals at a larger geographic area. Information collected in this interview may be shared by NIST with researchers at NIST or with researchers outside NIST. The information that you provide may be used in future research. Any future research will include protections to ensure that both the sharing and use of the information complies with the conditions that I just described.

There are NO KNOWN RISKS or direct benefits to you. We hope to gain more knowledge on how your institution's functioning was affected by Hurricane Maria, so that we can learn from your experiences to help communities better prepare for similar events in the future.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0693-0078. Without this approval, we could not conduct this information collection. Public reporting for this information collection is estimated to be approximately 25 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the National Institute of Standards and Technology at: 100 Bureau Drive, Gaithersburg, MD 20899, Attn: Dr. Maria Dillard, Associate Team Lead for the NIST Hurricane Maria Program, NIST Engineering Laboratory; or contact at maria.dillard@nist.gov.

Please confirm you are above 18 years of age, willing to participate in this survey, and consent to our using the information that you provide in the way described.

Respondent is above 18 years of age and consent to this survey.

Do you have any questions before we begin?

Thank you for taking the time to complete the survey!

Consent Language - IF SURVEY IS TAKEN ONLINE

Welcome! We are conducting this survey on behalf of The US Department of Commerce National Institute of Standards and Technology (NIST) to help them better understand the recovery process for hospitals from Hurricane Maria in 2017.

These surveys will lead to recommended improvements in building codes, standards, and practices to make communities in Puerto Rico and across the United States more resilient to hurricanes and other disasters. This study is part of a larger program led by Drs. Joseph Main and Maria Dillard and is funded by the National Institute of Standards and Technology (NIST). You can also view a letter from NIST about the study here: www.estudiomariahospital.com/carta.

Your hospital participated in our first survey. In this second survey, we are continuing to track recovery

over time to undertand the progress and challenges experienced by hospitals across Puerto Rico.

There are questions that ask about your hospital's:

- Services and resources
- Repair and recovery process from Maria, including insurance and financial recovery assistance
- Actions taken to prepare for future events
- Physical and non-physical impacts of Hurricane Fiona

This survey should be completed by someone who:

- Was employed by the hospital at the time of Hurricane Maria
- Is knowledgeable about these topics or can readily obtain information from individuals who are knowledgeable about these topics.

In addition, we encourage you to gather input from colleagues for your responses, as necessary, to answer any questions on topics that are unfamiliar to you. Your responses will never be linked to your individual identity or the identity of your hospital. Instead, findings will be attributed to a "hospital" at the commonwealth, regional, municipal, or ZIP code level. In cases where there is only one hospital in the municipality or ZIP code, the information collected will be combined or aggregated with information that we obtain from other hospitals at a larger geographic area. Information collected in this interview may be shared by NIST with researchers at NIST or with researchers outside NIST. The information that you provide may be used in future research. Any future research will include protections to ensure that both the sharing and use of the information complies with the conditions that I just described.

If you prefer that this survey be completed by another individual at your institution, please send an email with their name and contact information (work phone, work email address and institution) to admin@estudiomariahospital.com.

The survey will take approximately 25 minutes to complete; however, you do not need to complete the entire survey at once. You may save your responses by clicking the "Save and Continue" button and continue the survey at a later time. If you feel uncomfortable answering any of the questions, you can skip them, or exit the survey at any time. Your participation is voluntary and without compensation. If you decide to participate in the study, you may withdraw your consent and stop participation at any time without penalty.

There are NO KNOWN RISKS or direct benefits to you. We hope to gain more knowledge on how your institution's functioning was affected by Hurricane Maria, so that we can learn from your experiences to help communities better prepare for similar events in the future.

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If you encounter any issues in completing this survey, please feel free to contact the survey helpdesk at admin@estudiomariahospital.com or 787-510-6478. If you have concerns about the content of this survey, please contact Dr. Maria Dillard at maria.dillard@nist.gov.

Thank you for taking the time to complete this survey!

Please confirm you are above 18 years of age, willing to participate in this survey, and consent to our using the information that you provide in the way described?

I am above 18 years of age and consent to this survey.

SCREENING QUESTIONS

This survey asks questions about the following hospital:

\${e://Field/NAME}

\${e://Field/ADDRESS}

O1. Is your hospital location today the same as it was at the time of Hurricane Maria?

\bigcirc	Yes
0	No (the hospital has moved to a new location after Hurricane Maria)

O2. Were you employed at this hospi	ital prior to Hurricane Maria?
Yes No No	
O3. Are you knowledgeable about Hu	urricane Maria's physical and non-physical impacts on this resources, and infrastructure?
Yes, I know or can readily obtain this i No	nformation
	ne and contact information for someone who is (or should Maria's physical and non-physical impacts to this hospital?
No, I do not know anyone who could possible. Yes, please contact the following indiv	orovide this type of information for this hospital. vidual:
Name	
Work phone number	
Work email address	
O5. If needed, would you be willing to knowledgeable?	o provide information for select topics on which you are
No Yes, please contact me:	

Name					
Work phone number					
Work email address					
Section A: Information from Respondents					
Section A: Information from Respondents The first set of questions asks about your position and experience, as well as some basic information about your hospital.					
A1. What best describes your current position in this hospital? [please list your job title or a brief description of your job]					
A2. How long have you worked for or with this hospital? (years)					

A3. How long have you worked in this position for any hospital? (years) [includes current hospital and any past experience in the same position]

•						
	A4. What is your hos	spital's owne	rship structure?			
	Interviewer: read list	of response	s			
000000	Public Public/Private Private - Single own Private - Partnership Private - Corporation Private - Non profit Other (please specif	o (multiple ow n or Franchis	•			
	A5. Which of the foll	owing has m	ost negatively im	pacted your hospit	tal's ability to prov	ide services?
	Interviewer: read list			paotoa your noop.	iai o abiiity to prot	
00000000	Economic recession Hurricane Irma Hurricane Maria Earthquakes in 2019 COVID-19 Supply Chain Disrup Inflation Hurricane Fiona	or Economic		08		
	A6. How would you 5, where 0=Not at a			-	cane Maria on a s	cale from 0 to
() = Not at all recovered	1	2	3	4	5 = Fully recovered

Section B: Changes in Resources and Service

Section B: Changes in Resources and Service

The last time we met with a representative of your hospital, we asked about resources and services of

your hospital during two time periods, after and immediately before Hurricane Maria. Now, we are interested in the general situation of your hospital to the best of your recollection:					
 Approximately 3 years after Hurricane Maria. Approximately 5 years after Hurricane Maria. 					
The next set of questions is about your hospital's resources. Please provide your besanswer to the best of your knowledge.	st estimate and				
B1. What was your hospital's annual operating budget: (Report to the nearest thous	ŕ				
a. In 2021:	\$ 0				
b. In 2023:	\$ 0				
Total	\$ 0				
B2. How many staffed beds did your hospital have: (Report to the nearest whole nu	mber #)				
Interviewer: read each statement and then record the response in the units specifie	d.				
a. In 2021:	# 0				
b. In 2023:	# 0				
Total	# 0				

Interviewer: read each statement and then reco	rd the respon	se in the i	units spe	citied.	
a. In 2021:					0 %
b. In 2023:					0 %
Total					0 %
B4. How many hospital-wide staff meetings were	e held each n	nonth, on	average:		
Interviewer: read each statement and then recor	rd the respon	se in the	units spe	cified.	
	<1	1-3	4-6	7 or more	Don't know
a. In 2021:	0	0	0	0	0
b. In 2023:	0	0	0	0	0
B5. What percent of your hospital's purchased soutside of the Commonwealth in 2021?	supplies in the	following	g categori	es came fro	om
Interviewer: then ask					
How about in 2023?					
Interviewer: Repeat for each Supply Type.					
(Please provide your best estimate and answer	to the best of	your kno	wledge)		
	202	1		2023	
a. Food		%			%
b. Computers/Tablets		%			%
c. Cleaning products		%			%
d. Pharmaceuticals/Medicines		%			%
e. Treatment supplies (e.g., dressings,		%			%

B3. What was your hospital's average occupancy rate: (Report to the nearest percent %)

	a. In 2021?		0]%
	b. In 2023?		0] %
	Total		0]%
	Clinical Services refers to: Emergency Services, Out-Patient Clinic Services, Surgical Services, Obstetrics/Delivery Services, Physical Therapy/Rehabilitat Services, Non-ICU Floor Services, ICU Services, Cardiac monitored/Non-ICU Services, and Intensive Care Unit Beds			
	To what extent do you perceive Hurricane Fiona caused a delay in the restoration of on 2023?	clinica	al ser	vices
0	The delay was unrelated to Hurricane Fiona.			
0	Hurricane Fiona caused a Minor delay in service restoration.			
\circ	Hurricane Fiona caused a Moderate delay in service restoration.			
0	Hurricane Fiona caused a Major delay in service restoration. Don't know			
	B7. About what percentage of <u>transportation services</u> was restored:			
	Interviewer: Record from zero to 100%. Read each statement and then record respon	nse.		
	a. In 2021?		0]%
	b. In 2023?		0]%
	Total		0]%

B6. About what percentage of <u>clinical services</u> was restored:

Interviewer: Record from zero to 100%. Read each statement and then record response.

Transportation Services refers to: Ground ambulance, Air medevac

To what extent do you perceive Hurricane Fiona caused a delay in the restoration of transportation

services in 2023?
The delay was unrelated to Hurricane Fiona. Hurricane Fiona caused a Minor delay in service restoration. Hurricane Fiona caused a Moderate delay in service restoration. Hurricane Fiona caused a Major delay in service restoration. Don't know
B8. About what percentage of <u>support services</u> was restored:
Interviewer: Record from zero to 100%. Read each statement and then record response.
a. In 2021? b. In 2023? Total
Support Services refers to: Kitchen and Cooking Services, Housekeeping/Cleaning Services, Laundry Services, Medical Records Services, Hospital Administration Services, Laboratory Testing Services, Radiology Services, Pharmacy Services, Blood Bank Services, Chaplain Services
To what extent do you perceive Hurricane Fiona caused a delay in the restoration of support services in 2023?
The delay was unrelated to Hurricane Fiona. Hurricane Fiona caused a Minor delay in service restoration. Hurricane Fiona caused a Major delay in service restoration.

)	Don't know	
	B9. About what percentage of <u>community services</u> was restored: Interviewer: Record from zero to 100%. Read each statement and then record response.	
	a. In 2021?	%
	b. In 2023?	%
	Total 0 %	%
	Community Services refers to: Birthing/Parenting Training, First aid/CPR Training, Fitness Classes, Food Pantry/Food Bank, AA/Al-Anon Meetings	
	To what extent do you perceive Hurricane Fiona caused a delay in the restoration of community services in 2023?	
	The delay was unrelated to Hurricane Fiona. Hurricane Fiona caused a Minor delay in service restoration. Hurricane Fiona caused a Moderate delay in service restoration. Hurricane Fiona caused a Major delay in service restoration. Don't know	
S	Section C: Physical Impacts & Repair	

Section C: Physical Impacts & Repair

The next set of questions focus on physical damage and repairs associated with your hospital campus. These questions address physical damage and repairs from both Hurricane Maria and Hurricane Fiona. If you are unsure of any responses, please just answer to the best of your ability.

C1. Did your hospital campus suffer any physical damage due to Hurricane Fiona?

000	Yes No Don't know					
	C2. How would you characterize the:					
	Interviewer: Read list of responses. Repeat l	ist of resp	onses as i	needed.		
		None	Minor	Moderate	Severe	Complete Loss
	a. Building damage from Hurricane Fiona?	0	0	0	0	0
	b. Contents/inventory damage from Hurricane Fiona?	0	0	0	0	0
	c. Machinery/equipment damage from Hurricane Fiona?	0	0	0	0	0
000	C3. Did your hospital campus suffer any physical Yes No Don't know	sical dama	age due to	Hurricane M	aria?	
	C4. What percentage of Hurricane Maria-relacompleted prior to Hurricane Fiona?	ated repair	rs to your	hospital camp	ous had bee	en
000	C4.1. Did the lack of completed repairs to yo from Hurricane Fiona? Yes No Don't know	ur hospita	I campus	result in any a	additional d	amage

resulted in any other neg	ative impacts from Hurrica	nne Fiona?	
Yes No Don't know			
C5. What percentage of completed as of 2023?	Hurricane Maria-related re	pairs to your hospital ca	ampus have been
The next set of questions of hospital following Hurrican C6. Did utility issues followervices			
	Yes	No	Don't know
a. In 2021?	0	0	0
b. In 2023?	0	0	0
	ation issues (i.e. road/brid		Hurricane Maria directly
	Yes	No	Don't know
a. In 2021?	0	0	0

C4.2. Apart from physical damage, has the lack of completed repairs to your hospital campus

		Yes	No	Don't know				
	b. In 2023?	0	0	0				
	C8. Did air transportation issues Maria directly inhibit your hospita	•	-) following Hurricane				
		Yes	No	Don't know				
	a. In 2021?	0	0	0				
	b. In 2023?	0	0	0				
	functional state? Select all that apply. Interviewer: READ LIST, select all that apply. Tents, trailers, or other temporary structures Prepackaged food (MREs) Delivery of water Generators Other (please describe):							
	The next set of questions asks ab following Hurricane Maria. Please a particular utility, please indicate	answer to the best of yo	•	•				
	Utilities							
0	electric power							

internet/IT

0	land-line telephone
0	oxygen
;	Section C: Utilities Q13-16
	C10.\${Im://Field/2}. Does your hospital currently have backup systems or emergency reserves for \$\{\left[\frac{1}{2}\right]?}\]
0000	Yes No Don't know Not applicable
	C11.\${lm://Field/2}. Over the past 12 months, how often has there been testing and/or maintenance of backup systems or emergency reserves?
00000000	0 times 1-3 times 4-6 times 7-8 times 9-11 times 12 or more times Don't kow Not applicable
	C12.\${lm://Field/2}. Over the past 12 months, how many times has <u>\${lm://Field/1}</u> been unavailable for a 12-hour period or longer?
0000000	0 times 1-3 times 4-6 times 7-8 times 9-11 times 12 or more times Don't know

0	Not applicable					
	C12a.\${lm://Field/2}. Over the pas <u>\${lm://Field/1}</u> ? (hours)	st 12 months, w	/hat is the lon	gest your hosp	oital went witho	out
0	C13.\${lm://Field/2}. Did your hosp needs during <u>\${lm://Field/1}</u> disru Yes				es meet oper	ational
Ŏ	No					
Ō	Don't know					
0	Not applicable					
3	Section D: Non-physical Impacts Section D: Non-physical Impacts The following set of questions focu made landfall in September 2022. your ability.	<u>s</u> ses on non-phy	•	J		
	D1. To what extent were the follow	wing a problem	after HURRIO	CANE FIONA?		
	Interviewer: Read list, ask					
			Would	d you say this v	was?	
		Not a problem	Minor problem	Moderate problem	Major problem	Don't know
	a. Employees had trouble reporting to work due to transportation problems?	0	0	0	0	0

Would you say this was?

	Not a problem	Minor problem	Moderate problem	Major problem	Don't know
b. Employees had trouble reporting to work because their children were not yet back to school?	0	0	0	0	0
c. Employees had trouble reporting to work because their children were not yet back to daycare/childcare?	0	0	0	0	0
d. Employees had trouble reporting to work because of disaster-related physical health issues?	0	0	0	0	0
e. Employees had trouble reporting to work because of disaster-related mental health issues?	0	0	0	0	0
D2. Following HURRICANE FIONA	۸				
Interviewer: Repeat lead-in for 2b t	hrough 2d if n	eeded			
	Ye	es	No	Don	't know
a. Did your hospital transfer any patients to other hospitals as a result of the hurricane?	(0		0
b. Did the utility loss result in the need to transfer patients <i>to other hospitals</i> ?	(0		0
c. Did your hospital accept any patient transfers <i>from other</i>	(<u> </u>	\circ		\cap

hospitals as a result of the hurricane?

d. Did your hospital accept any patients transferred *from other facilities* such as nursing homes as a result of the hurricane?

Section E: Decisions and Planning

The following set of questions focuses on decisions, planning and communication. If you are unsure of any responses, please just answer to the best of your ability.

	E1. How would you characterize the culture of your hospital in relation to natural hazard risks during 2023?
	Interviewer: read list of responses, select one
	Regularly planned for potential natural hazards and set aside funds to minimize risks Occasionally planned for potential natural hazards and set aside funds to minimize risks Acknowledged natural hazard risks, but did not have financial or other means to help minimize risks Did not discuss or plan for natural hazard risks Deliberately avoided the topic of natural hazard risks
	E2. How about in 2021? How would you characterize the culture of your hospital in relation to natural hazard risks during 2021? Interviewer: read list of responses, select one
	Regularly planned for potential natural hazards and set aside funds to minimize risks Occasionally planned for potential natural hazards and set aside funds to minimize risks Acknowledged natural hazard risks, but did not have financial or other means to help minimize risks Did not discuss or plan for natural hazard risks Deliberately avoided the topic of natural hazard risks
	E3. Please indicate to what extent you agree with the following statement: My hospital is adequately prepared for potential hurricane impacts.
	Interviewer: Read list of responses, select one
C	Agree

\sim	Somewhat agree
$\bigcup_{i=1}^{n}$	Neither agree, nor disagree
\supset	Somewhat disagree
\bigcirc	Disagree
	E4. Does your hospital have an emergency plan for natural hazard events such as hurricanes in place?
$\overline{}$	Yes
\preceq	No
\preceq	Don't know
	Berreitiew
	E4a. What percentage of hospital administration and/or staff is familiar with the plan and its contents? (%)
	E4b. How would you characterize the implementation of the emergency plan during HURRICANE FIONA?
	Interviewer: read list of responses, select one
	,
$\overline{}$	
\sim	Very Good
	Very Good Good
	Very Good Good Acceptable
	Very Good Good
	Very Good Good Acceptable Poor

Interviewer: For example, did you co-sponsor events, offer space, or help promote activities of these

organizations?

Would you say:

	Interviewer: read list of responses, select one
00000	Very connected Somewhat connected Average Somewhat disconnected Very disconnected
	E6. How about in 2021? How would you rate your hospital's connection to other local organizations (e.g., businesses, schools, churches) during 2021?
C	Interviewer: For example, did you co-sponsor events, offer space, or help promote activities of these organizations?
	Would you say:
	Interviewer: read list of responses, select one
00000	Very connected Somewhat connected Average Somewhat disconnected Very disconnected
\$	Section F: Recovery
á t	Section F: Recovery This set of questions addresses the recovery of your hospital and surrounding areas, as well as the application for and receipt of recovery funding. These questions may appear familiar since we asked them previously. We are asking again due to the long timeline associated with receiving recovery funding. If you are unsure of any dates, please just answer to the best of your ability.
	F1. Regarding the <u>recovery of the entire Commonwealth of Puerto Rico</u> since Hurricane Maria, would you say it is:
	Interviewer: read list of responses, select one
00	Fully recovered Partially recovered

)	Will never recover (please explain)
	F2. Regarding the <u>recovery of the municipios your hospital serves</u> , since Hurricane Maria would you say the municipios are:
	Interviewer: read list of responses, select one
)	Fully recovered
)	Partially recovered
)	Still in survival/response mode
)	Will never recover (please explain)
	F3. Regarding the <u>recovery of your hospital</u> since Hurricane Maria, would you say it is:
	Interviewer: read list of responses, select one
)	Fully recovered
)	Partially recovered
)	Still in survival/response mode
)	Will never recover (please explain)

F4. Did your hospital file claims for insurance on the following insurance types?

		Yes		No	Do	on't knov	v	Did not have this insurance	for di othe Hurr	claim saster r than ricane aria
The Buildings		0		0		0		0	(C
The Contents (for example, furniture, medical supplies, medical equipment)		0		0		0		0	(O
Business interruption		0		0		0		0	(C
F4b. When did you receive money from the following insurance policy claims? <u>Please provide your best recollection of the timing of funds received.</u>					<u>your</u>					
	Less than 6 mos	6 - 12 mos	12 - 18 mos	18 - 24 mos	24 - 36 mos	36 - 48 mos	48 - 60 mos	60+	NEVER	Don't know
» The Buildings	0	0	0	0	0	0	0	0	0	0
The Contents (for example, furniture, medical supplies, medical equipment)	0	0	0	0	0	0	0	0	0	0
» Business interruption	0	0	0	0	0	0	0	0	0	0
F5. Did your hospital a	apply for	any of	the follo	owing as	ssistanc	e types′	?			
		Y	es"			No			Don't know	N
Federal financial assistance (FEMA, SBA, HHS, Medicare/Medicaid, Other)		(O			0			0	

		Yes				No			Don't know	N
Commonwealth/Puerto Rico financial assistance		0				0			0	
Municipal government financial assistance		0				0			0	
Private/bank loans		0				0			0	
F5b. When did you receive recollection of the timing		_		lowing a 18 - 24 mos	assistar 24 - 36 mos	36 - 48 mos	es? <u>Ple</u> 48 - 60 mos	ase pro	ovide your i	<u>best</u> Don't know
 Federal financial assistance (FEMA, SBA, HHS, Medicare/Medicaid, Other) 	0	0	0	0	0	0	0	0	0	0
» Commonwealth/Puerto Rico financial assistance	0	0	0	0	0	0	0	0	0	0

F6. To what extent did the following factors make important contributions to your hospital's recovery in 2023 (approximately 5 years after Hurricane Maria)?

Interviewer read: "Major contribution, minor contribution, no contribution or not applicable" for the following:

Municipal government financial assistance

» Private/bank loans

	Major contribution	Minor contribution	No contribution	Not applicable					
Effective leadership and sound decision making	0	0	0	0					
A clearly understood process for making and approving decisions	0	0	0	0					
The provision of adequate and timely financial resources (including disaster assistance)	0	0	0	0					
Having materials easily accessible (e.g., building materials)	0	0	0	0					
Having needed equipment accessible (e.g., construction equipment, generators)	0	0	0	0					
Being able to hire contractors for building repairs	0	0	0	0					
Employees	0	0	0	0					
Patients	0	0	\circ	0					
Recovered utility services	0	0	0	0					
Personal networks/knowing the right people	0	0	0	0					
Sharing resources with other organizations in the community	0	0	0	0					
F6a. Of these factors, please rank the 3 most important to your hospital's recovery where 1 is the most important factor: Interviewer: Read list									
» Effective leadership and sound decision making									
» A clearly understood process for making and approving decisions									
The provision of adequate and timely financial resources (including disaster assistance)									
» Having materials easily accessible (e.g., building materials)									
» Having needed equipment accessible (e.g., construction equipment, generators)									

» Being able to hire contractors for building repairs
» Employees
» Patients
» Recovered utility services
» Personal networks/knowing the right people
» Sharing resources with other organizations in the community
FND

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