# Risk Factors for Invasive Methicillin-resistant Staphylococcus aureus (MRSA) Infections among Recently Discharged Patients

#### PHONE INTERVIEW ATTEMPTS LOG

PATIENT NAME:	STUDY ID:	
NAME OF THE HOSP WHERE HOSPITALIZATION O	F INTEREST OCCURRED:	
DATE OF INITIAL HACO MRSA CULTURE:/_/	<del>-</del>	<del></del>
PHONE NUMBER:	·	
PHONE TYPE: ☐ Home ☐ Office ☐ Cell	STATUS CODES: 1=correct, 0=not c determine	orrect, 9=couldn't

ATTEMPT NUMBER	DATE	TIME-OF- DAY CODE	OUTCOME CODE	COMMENTS
1				
2				
3				
4				
5				
6				
7				
8				

#### **TIME-OF-DAY CODES**

- 1 = Weekday, 10AM 11:59AM
- 2 = Weekday, Noon 4:59PM
- 3 = Weekday, 5PM 8PM
- 4 = Saturday only, 10AM-11:59AM
- 5 = Weekend, Noon 4:59PM
- 6 = Weekend, 5PM 8PM

#### **OUTCOME CODES**

- 1 = Enrolled
- 2 = Not home, left message
- 3 = Not home, no message left
- 4 = Refused to participate
- 5 = Unable to answer questions
- 6 = Unable to enroll (after 8 attempts)
- 7 = Need to call back
- 8 = Other, specify in **Notes**

[GUIDELINES: A MINIMUM OF 8 ATTEMPTS ON AT LEAST 6 DIFFERENT DATES USING A VALID PHONE NUMBER SHOULD BE MADE BEFORE GIVING UP ON A POTENTIAL CASE OR CONTROL. AT LEAST ONE ATTEMPT SHOULD BE MADE BETWEEN 5-8PM; AND ONE WEEKEND DAY]

Public reporting burden of this collection of information is estimated to average 5 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-XXXX).

Last Updated: 5.25.11 APPENDIX 1: PHONE LOG-CASE

# **TELEPHONE SCRIPT/SCREENING - FOR CASES**

Last Updated: 5.25.11

	START TIME:
Screening Questions for case-patients	
[Note: if the respondent indicates at any point in the interview that s/he is driving, en	la the interview and schedule a call раск.
To the person who answers the phone, IF ADULT, otherwise ask to speak	to an adult]: "Hello, my name is
I am calling from the [State health dept]. May I please speak to	
Yes: person who answered is potential enrollee; [go to S	ection A: Q2.j
Yes: coming to the phone; [go to Section A: Q2]	
No: person is deceased:	an did allo anaga anno Oli
<ul> <li>"I am sorry. I was not aware of your loss. Wh [Record date of death and proceed.]</li> </ul>	en did s/ne pass away?"/
"I would like to offer my condolences to you and talk to you about a public health study about a se "mersa"; or should I call back another time?"	your family. Would this be a good time to evere infection caused by "MRSA" or
<ul> <li>Call back</li> </ul>	
• [Record person's name and say thank-you.]	to ask for, and day/time to call on phone log
■ Now is a good time	
• [If now is a better time, or	no to Section C: O4 l
No: person is incapacitated; [Go to Section C: Q4]	<u>30 to 000tion 0. Q 1.</u> j
Does not speak English; [record language in comment se	ection of phone log.]
■ "We will try to call back with someone who s	
<u>a language other than English or Spanish, he/sh</u> <u>"No English or Spanish. =stop=]</u>	
SECTION A: INTRODUCTION FOR CASES	
Q2. "I am calling on behalf of the Centers for Disease Control and DEPT] because you may be eligible to participate in a public he by CDC and your State Health Department. We are calling you developed an infection with a germ called MRSA. Participation 20 minute interview over the phone. It will include questions a recent medications. Please know that your answers will be ke answer any question. If you agree to participate we will send give us. May I tell you more about the study?" YES; [GO TO SECTION B].	ealth study. This study is being performed in because you were hospitalized and then in is voluntary and involves completing a 15-about your visits to hospitals, illnesses, and ept secure and you may choose not to
No; [ <u>Go то Q3].</u>	
Q3. "Your participation in this study is very important. We are trying severe MRSA infection. May I schedule a time to talk that would	
YES; [RECORD DAY/TIME ON PHONE LOG].	
<ul> <li>"Thank you very much for your time, I will ca back at the requested day/time.]</li> </ul>	II you back later."[=STOP=and call the person
No;	
"Sorry to have disturbed you. Good-bye." [=S as "Refused to participate."]	STOP=and record in the interview tracking log

## **SECTION B: ELIGIBILITY OF LIVING CASE**

Before I proceed, I would like to ask you a few questions about the time after your hospitalization at [Name of hospital] to make sure you are eligible to participate in this study. Do you have a calendar? Many of our questions are going to refer to the time period after your discharge on /	_/_ hold if
CASE ELIGIBILITY:	
. "Between the time when you left [Hospital name] on// [Date of discharge from hospitalization of interest] and the date of your MRSA infection on//, [Date of initial HACO MRSA culture] did you make any other visits to a hospital where you had to stay overnight?"	m
Yes1 [Go to Q.1A] No2 [Go to Q.1D]	
1A. "During this overnight stay at the hospital, did you sleep there for 3 or more nights?" Yes	
interviewing people who did not stay in the hospital overnight for more than 3. I though we were not able to enroll you in this study, we appreciate your time and willingness to participate. Do you have any questions for me?" [STOP! EXCLUDE CASE FROM STUDY]	d
1B. "What is the name of this hospital where you stayed in for 3 or more nights between the time you left [first hospital name] and the date of your MRSA infection on// [date HACO MRSA culture]?"	-
Name of Hospital:	
<ul> <li>Not Sure/Don't Know then say:</li> <li>"Thank you very much for taking time to answer my questions. We are only interviewing people who did not stay in the hospital overnight for more than 3 Even though we were not able to enroll you in this study, we appreciate your willingness to participate. Do you have any questions for me?" [EXCLUDE THEROM STUDY = STOP=]</li> </ul>	time and
<ul> <li>If facility is not participating in the study then say:</li> <li>"Thank you very much for taking time to answer my questions. We are only interviewing people who did not stay in the hospital overnight for more than 3 though we were not able to enroll you in this study, we appreciate your time a willingness to participate. Do you have any questions for me?" [EXCLUDE THEROM STUDY = STOP=]</li> </ul>	ınd
If facility is participating in the study then [Go to 1C; this patient is eligible]	
1C. "What was the date that you left this hospital where you stayed for 3 or more nights?"/_ [NOTE: you should use this date as the date of discharge from the hospitalization of interest. MRRF with hospitalization of interest date will need to be filled out for this patient]	_/_ n this new

1D. "Now that I know you are eligible to participate, I would like to share some additional details about the study and obtain your verbal permission for participation. Feel free to stop me and ask questions at any time." [GO TO Appendix 5: Consent Form]

#### SECTION C: PROXY INTRODUCTION

Q4. "I am calling on behalf of the Centers for Disease Cont DEPT] because [POTENTIAL ENROLLEE] may be eligible to peing performed by CDC and your State Health Departs ENROLLEE] was hospitalized and then developed an infe voluntary and involves completing a 15-20 minute inter [POTENTIAL ENROLLEE]'S visits to hospitals, illnesses, and answers will be kept secure and you may choose not to we will send you a \$10 Target gift card for the time you	participate in a public health study. This study is ment. We are calling you because [POTENTIAL ction with a germ called MRSA. Participation is view over the phone. It will include questions about recent medications. Please know that your o answer any question. If you agree to participate
"Are you legally qualified to answer questions about [P	OTENTIAL ENROLLEE]?"
Yes; [ <u>IF DECEASED, GO TO Q4.1]</u> No; [Go TO Q4.1]	
Q4.1 "Are you considered [POTENTIAL ENROLLEE]'s next of kir	?"
Yes: [Record Proxy Name on Enrollee Interv	
No:	
answer question about [POTENTIAL ENROL	per of the person who may be legally qualified to LEE] or who is [POTENTIAL ENROLLEE]'s next of kin?" ON ENROLLEE INTERVIEW COVERSHEET]" Thank you for
Don't know or unsure:	
	person who is legally qualified to answer question next of kin. Thank you for your time." $[= STOP =]$
Q4.2 "What is your relationship to [POTENTIAL ENROLLEE]?"	
Husband, wife, widow/er; [GO TO Q4.3]	egal guardian; [ <u>GO то Q4.3</u> ]
Son or daughter; [GO TO Q4.3]	ower of attorney; [GO TO Q4.3]
Parent; [ <u>GO то Q4.3</u> ]	aregiver; [GO TO Q4.3]
Sister or brother; [GO TO Q4.3] Oth	er, please specify; [ <u>GO TO Q4.3</u> ]
Q4.3 . "May I tell you more about the study?"	
Yes; [GO TO SECTION D] No; [GO TO Q	<u>5.</u> ]
Q5 "Participation in this study is very important. We are severe MRSA infection. What would be a better time t	trying to better understand why people develop
Yes [Record day/time to call on Phone Log]	•
<del></del>	ill call you back later. Good-bye." [=STOP=and call

## SECTION D: ELIGIBILITY OF CASE FOR PROXY

back at requested day and time.]

No; "Sorry to have disturbed you. Good-bye." [=STOP=]

"Before I proceed, I would like to ask you a few questions about the time after his/her hospitalization at \_\_\_\_\_\_ [Name of hospital] to make sure s/he is eligible to participate in this study. Do you have a calendar? Many of our questions are going to refer to the time period after his/her discharge on \_\_\_\_\_ /\_\_\_ [Date of discharge from hospitalization of interest], and it might be helpful for you to look at a calendar. I can hold if you want to get a calendar.

# **CASE ELIGIBILITY:**

1.

"Between the time when s/he left [Hospital name] on// [Date of discharge from hospitalization of interest] and the date of his/her MRSA infection on//, [Date of initial HACO MRSA culture] did s/he make any other visits to any hospital where s/he had to stay overnight?"
Yes
1A. "During this overnight stay at the hospital, did s/he sleep there for 3 or more nights?"
Yes
1B. "What is the name of this hospital where s/he stayed in for 3 or more nights between the time s/he left [First hospital name] and the date of his/her MRSA infection on// [Date of initial HACO MRSA culture]?"
<ul> <li>Not Sure/Don't Know then say:</li> <li>"Thank you very much for taking time to answer my questions. We are only interviewing people who did not stay in the hospital overnight for more than 3 nights. Even though we were not able to enroll [POTENTIAL ENROLLEE] in the study, we appreciate your time and willingness to participate. Do you have any questions for me?" [EXCLUDE THIS CASE FROM STUDY = STOP=]</li> </ul>
<ul> <li>If facility is not participating in the study then say:</li> <li>"Thank you very much for taking time to answer my questions. We are only interviewing people who did not stay in the hospital overnight for more than 3. Even though we were not able to enroll [POTENTIAL ENROLLEE] in this study, we appreciate your time and willingness to participate. Do you have any questions for me?"     [EXCLUDE THIS CASE FROM STUDY = STOP=]</li> </ul>
If facility is participating in the study then [Go to 1C; this patient is eligible]
1C. "What was the date that s/he left this hospital where he/she stayed for 3 or more nights?"
[Please NOTE: you should use this date as the date of discharge from the hospitalization of interest. New MRRF will need to be filled out for this patient]
1D. "Now that I know s/he are eligible to participate, I would like to share some additional details about the study and obtain your verbal permission for participation. Feel free to stop me and ask questions at any time." [Go to Appendix 5: Consent Form]

START TIME:	

## **TELEPHONE SCRIPT/SCREENING - FOR CONTROLS**

**Screening Questions for control-patients** 

[Note: If the respondent indicates at any point in the interview that s/he is driving, end the interview and schedule a call back.]
Q1. [To the person who answers the phone, IF ADULT, otherwise ask to speak to an adult]: "Hello, my name is I am calling from the [State health dept]. May I please speak to [Potential enrollee]?"
Yes: person who answered is potential enrollee; [go to Section A: Q2.]
Yes: coming to the phone; [go to Section A: Q2]
No: person is deceased:
"I am sorry. I was not aware of your loss. When did s/he pass away?"//  [Record date of death and proceed.]
<ul> <li>[If date of death was before date of matched-case's initial HACO MRSA culture</li> <li>[Date: / / ] stop and say:]</li> </ul>
<ul> <li>"I would like to offer my condolences and apologize for any inconvenience that this call may have caused to you. Thank you for your time." [Do not conduct interview- control not eligible]</li> </ul>
<ul> <li>[If date of death is after date of matched-case's case's initial HACO MRSA culture</li> <li>[Date: / / ], please say:]</li> </ul>
<ul> <li>"I would like to offer my condolences to you and your family. Would this be a good time to talk to you about a public health study about a severe infection caused by "MRSA" or "mersa"; or should I call back another time?"</li> </ul>
<ul> <li>Not Now</li> </ul>
<ul> <li>[Record person's name to ask for, and day/time to call on phone log and say thank-you.]</li> </ul>
<ul> <li>Now is a good time</li> </ul>
<ul> <li>[If now is a better time, go to Section C:]</li> </ul>
No: person is incapacitated; [go to Section C: Q4]
Does not speak English; [record language in comment section of phone log.]
<ul> <li>"We will try to call back with someone who speaks Spanish, thank you." [If control speaks a language other than English or Spanish, he/she is not eligible. Record on tracking log as "No English or Spanish." =stop=]</li> </ul>
SECTION A: INTRODUCTION FOR CONTROLS  Q2. "I am calling on behalf of the Centers for Disease Control and Prevention (CDC) and the [STATE HEALTH DEPT] because you may be eligible to participate in a public health study. This study is being performed by CDC and your State Health Department. We are calling you because someone who was hospitalized at the same time as you has developed an infection with a germ called MRSA. Participation is voluntary and involves completing a 15-20 minute interview over the phone. It will include questions about your visits to hospitals, illnesses, and recent medications. Please know that your answers will be kept secure and

Q3. "Your participation in this study is very important. We are trying to better understand why people develop severe MRSA infection. May I schedule a time to talk that would be better for you?"

you may choose not to answer any question. If you agree to participate we will send you a \$10 Target gift

YES;	RECORD	DAY/TIME	ON	<b>PHONE</b>	Log]	
·	-					

YES; [ GO TO SECTION B].

\_\_\_No; [<u>GO то Q3]</u>.

card for the time you give us. May I tell you more about the study?"

• "Thank you very much for your time." [=STOP= and call back at requested day and time.]

\_\_\_No;

■ "Sorry to have disturbed you. Good-bye." [=STOP= and record on interview tracking log as "Refused to participate."]

SECTION B: ELIGIBILITY OF LIVING CONTROL	
calendar? Many of our questions are going to refer	e eligible to participate in this study. Do you have a to the time period after your discharge on//
Date of discharge from hospitalization of interest and it you want to get a calendar."	might be helpful for you to look at a calendar. I can hold if
you want to get a calendar.	
CONTROL ELIGIBILITY:	
1."After you left [hospital name] on interest], were you told by your doctor that you ha	
Yes	
1A. [ <u>If yes</u> ], "Do you remember what part of th	e body were you told you had MRSA?"
aBlood [Go to Q.1B]	
bJoint [ <u>Go to Q.1B</u> ]	
cBone [ <u>Go to Q.1B]</u> dHeart [ <u>Go to Q.1B]</u>	
eOther sterile site, Specify:	[Go to Q.1B]
fUnknown [Go To Q.2]	
gTold it was not an infection; list the	site: [ <u>Go to Q.2</u> ]
[NOTE: If the MRSA infection was not INVASIVE skin, nose) or answers f-g were checked skip to	E (MRSA not isolated from a sterile site; e.g. sputum, lung, wound Q. 2.]
discharge from hospitalization of interest] andweeks later]?" Yes1 [lf yes], What	date did it occur?:/
	JDE THIS CONTROL = STOP=]
No2 [ <u>Go to Q. 2</u> ]	
2. "BetweenI [date of discharge from invasive HACO MRSA culture], did you make any overnight?"	nospital of interest] andl [date of matched-case other visits to a hospital where you had to stay
Yes No	
	e hospital, did you sleep there for 3 or more nights?"
YesThank you very much for	.1 taking time to answer my questions. We are only
interviewing people who di	d not stay in the hospital overnight for more than 3 nights.
	ble to enroll you in this study, we appreciate your time and you have any questions for me?" [STOP! EXCLUDE THIS
CONTROL]	
No	2 [ <u>Go to 2B</u> ]
Don't know/Not sure7	
interviewing people who di	taking time to answer my questions. We are only d not stay in the hospital overnight for more than 3 nights. ble to enroll you in this study, we appreciate your time and

willingness to participate. Do you have any questions for me?" [STOP! EXCLUDE THIS CONTROL]

2B. "Now that I know you are eligible to participate, I would like to share some additional details about the study and obtain your verbal permission for participation. Feel free to stop me and ask questions at any time." [Go To Appendix 5: Consent Form]

## SECTION C- PROXY INTRODUCTION FOR CONTROLS:

E b h F q ti	I am calling on behalf of the Centers for Disease Control and Prevention (CDC) and the [State Health Dept] because [POTENTIAL ENROLLEE] may be eligible to participate in a public health study. This study is being performed by CDC and your State Health Department. We are calling [Potential Enrollee] was dospitalized at the same time as someone who developed an infection with a germ called MRSA. Participation is voluntary and involves completing a 15-20 minute interview over the phone. It will include questions about [POTENTIAL ENROLLEE]'s visits to hospitals, illnesses, and recent medications. Please know that answers will be kept secure and you may choose not to answer any question. If you agree to participate we will send you a \$10 Target gift card for the time you give us. "  Are you legally qualified to answer questions about [POTENTIAL ENROLLEE]?"
	Yes; [IF DECEASED, GO TO Q4.1]
	No; [Go то Q4.1]
4.1	"Are you considered [POTENTIAL ENROLLEE]'s next of kin?"
	Yes: [Record proxy name on Enrollee Interview Coversheet; go to Q4.2.]
	No:
	"Do you have the name and phone number of the person who may be legally qualified to answer question about [POTENTIAL ENROLLEE] or who is [POTENTIAL ENROLLEE]'s next of kin?" [RECORD PROXY NAME ON ENROLLEE INTERVIEW COVERSHEET]" Thank you for your time."
	Don't know or unsure:
	"Thank you but we need to talk with the person who is legally qualified to answer question about [POTENTIAL ENROLLEE] OR WHO IS the next of kin. Thank you for your time." [= STOP =]
Q4.2	"What is your relationship to [POTENTIAL ENROLLEE]?"
Hush	band, wife, widow/er; [ <u>GO TO Q4.3]</u> Legal guardian; [ <u>GO TO Q4.3]</u>
Son	or daughter; [GO TO Q4.3]Power of attorney; [GO TO Q4.3]
Pare	ent; [ <u>GO TO Q4.3</u> ]Caregiver; [ <u>GO TO Q4.3</u> ]
Siste	er or brother; [GO TO Q4.3]Other, please specify; [GO TO Q4.3]
Q4.3. "I	May I tell you more about the study?"
	Yes; [ <u>GO TO SECTION D]</u> No; [ <u>GO TO Q5.]</u>
	"Participation in this study is very important. We are trying to better understand why people develop severe MRSA infection. What would be a better time to call you back?"
	Gives another time [Record day/time to call on Phone Log].
	<ul> <li>"Thank you very much for your time. Good-bye." [=STOP= and call back at requested day and time.</li> </ul>
	No/None; "Sorry to have disturbed you. Good-bye." [=STOP=]
SECTIO	N D: ELIGIBILITY OF CONTROL FOR PROXY
	I proceed, I would like to ask you a few questions about the time after his/her hospitalization at [Name of hospital] to make sure s/he is eligible to participate in this study. Do you have a calendar?
Many of	f our questions are going to refer to the time period after his/her discharge on/

discharge from hospitalization of interest], and it might be helpful for you to look at a calendar. I can hold if you want to get a calendar.

CONTROL ELICIBILITY
CONTROL ELIGIBILITY:  1. "After s/he left [Hospital name] on / [Date of discharge from hospitalization of interest], was s/he told by his/her doctor that s/he had "MRSA" or "MERSA" inside of his/her body?
Yes1 [ <u>Go to Q.1A]</u> No2 [ <u>Go to Q.2]</u>
1A. [If yes], "Do you remember in what part of the body s/he had MRSA?"  aBlood [GO To Q.1B]  bJoint [GO To Q.1B]  cBone [GO To Q.1B]  dHeart [GO To Q.1B]  eOther sterile site, Specify:[GO To Q.1B]  fUnknown [GO To Q.2]  gTold it was not an infection; list the site:[GO To Q.2]  [NOTE: If the MRSA infection was NOT INVASIVE (MRSA isolated from a non-sterile site; such as sputum, lung wound, skin, nose skip to Question 2.]
1B. "Did this MRSA infection occur between the date s/he left the hospital on/ [Date of discharge from hospitalization of interest] and/ [look on the calendar and determine the date 12 weeks later]?"
<ul> <li>Yes</li></ul>
2. "BetweenI [date of discharge from hospital of interest] andI [date of matched-case initial HACO MRSA culture], did s/he make any other visits to a hospital where s/he had to stay overnight?"
Yes
2A. "During this overnight stay at the hospital, did s/he sleep there for 3 or more nights?"
<ul> <li>Yes</li></ul>
No2 [ <u>Go to 2B</u> ] Don't know/Not sure7

"Thank you very much for taking time to answer my questions. We are only interviewing people who did not stay in the hospital overnight for more than 3 nights. Even though we were not able to enroll [POTENTIAL ENROLLEE] in this study, we appreciate your time and willingness to participate. Do you have any questions for me?" [STOP! EXCLUDE THIS CONTROL]

2B. "Now that I know s/he is eligible to participate, I would like to share some additional details about the study and obtain your verbal permission for participation. Feel free to stop me and ask questions at any time." [GO TO Appendix 5: Consent Form]