

## Undetermined risk factors and modes of transmission for *Candida auris* infection — Colombia, 2016

### Appendix 1b. Ficha de registro para casos de *Candida auris* y *Candidemia* [Spanish]



**Ficha de registro para casos de *Candida auris* y Candidemia**

Número de caso: \_\_\_\_\_ Sexo (M)(F) Edad: \_\_\_\_\_ (años)(meses)(días)  
 Dirección: \_\_\_\_\_  
 Lugar: País: \_\_\_\_\_ Ciudad: \_\_\_\_\_ Institución: \_\_\_\_\_  
 Fecha de ingreso (DD)(MM)(AA) Motivo de ingreso hospitalario: \_\_\_\_\_  
 Fecha de egreso (DD)(MM)(AA) Condición al egreso: Vivo ( ) Muerto ( ) Hospitalizado ( ) No dato ( )

**Localización durante la hospitalización:**

¿Fue el paciente trasladado desde otro hospital? (Si)(No)(ND)  
 Nombre y Cuidad del hospital: \_\_\_\_\_ Fecha de traslado: (DD)(MM)(AA)  
 Ingresó a la UCI: (Si)(No)(ND)  
 Fechas de ingreso a la UCI (DD)(MM)(AA) Fecha de egreso de la UCI (DD)(MM)(AA)

Describe las unidades donde el paciente ha estado hospitalizado:

Unidad: \_\_\_\_\_ habitación: \_\_\_\_\_ Fecha de entrada: (DD)(MM)(AA) Fecha de salida: (DD)(MM)(AA)  
 Unidad: \_\_\_\_\_ habitación: \_\_\_\_\_ Fecha de entrada: (DD)(MM)(AA) Fecha de salida: (DD)(MM)(AA)  
 Unidad: \_\_\_\_\_ habitación: \_\_\_\_\_ Fecha de entrada: (DD)(MM)(AA) Fecha de salida: (DD)(MM)(AA)  
 Unidad: \_\_\_\_\_ habitación: \_\_\_\_\_ Fecha de entrada: (DD)(MM)(AA) Fecha de salida: (DD)(MM)(AA)  
 Unidad: \_\_\_\_\_ habitación: \_\_\_\_\_ Fecha de entrada: (DD)(MM)(AA) Fecha de salida: (DD)(MM)(AA)

¿Ha estado el paciente en el quirófano? (Si)(No)(ND), si la respuesta es sí, describa la información a continuación:

Sala de cirugía: \_\_\_\_\_ Fecha: (DD)(MM)(AA) Descripción del procedimiento: \_\_\_\_\_  
 Sala de cirugía: \_\_\_\_\_ Fecha: (DD)(MM)(AA) Descripción del procedimiento: \_\_\_\_\_  
 Sala de cirugía: \_\_\_\_\_ Fecha: (DD)(MM)(AA) Descripción del procedimiento: \_\_\_\_\_

**Factores de Riesgo**

**Hospitalizaciones previas:**

¿El paciente ha estado hospitalizado en los últimos 90 días? (Si)(No)(ND)  
 Hospital y Ciudad: \_\_\_\_\_ Fecha de ingreso: (DD)(MM)(AA)  
 Motivo de hospitalización: \_\_\_\_\_ Fecha de egreso: (DD)(MM)(AA)

Hospital y Ciudad: \_\_\_\_\_ Fecha de ingreso: (DD)(MM)(AA)  
 Motivo de hospitalización: \_\_\_\_\_ Fecha de egreso: (DD)(MM)(AA)

¿Diagnóstico previo de infección con candida? (Si)(No)(ND)

Fecha: (DD) (MM) (AA)

¿Especie(s) asociada(s)? \_\_\_\_\_

¿El paciente ha recibido algún antifúngico previamente? (Si)(No)(ND)

¿Cuál? \_\_\_\_\_ Inicio: (DD)(MM)(AA) Finalización: (DD)(MM)(AA)

Motivo del tratamiento previo: \_\_\_\_\_

**Comorbilidades:**

Diabetes: (Si) (No) (ND)  
 Tumor sólido: (Si) (No) (ND)  
 Malignidad hematológica: (Si) (No) (ND)  
 Trasplante de médula ósea: (Si) (No) (ND)  
 Enfermedad renal crónica: (Si) (No) (ND)  
 Hemodiálisis (Si) (No) (ND)  
 Enfermedad hepática: (Si) (No) (ND)  
 Enfermedad inmunosupresora: (Si) (No) (ND)  
 Seleccione: (Autoinmunidad)(Trasplante) (Corticosteroides)(Cáncer)  
 VIH/SIDA: (Si) (No) (ND)  
 CD4: \_\_\_\_\_ Carga viral: \_\_\_\_\_

Otras: (Si) (No) (ND) ¿Cuál?: \_\_\_\_\_

**Hospitalización actual**

**Procedimientos:**

Hemodiálisis: (Si) (No) (ND) Fecha de inicio: (DD) (MM) (AA) Fecha de finalización: (DD) (MM) (AA)  
 Catéter venoso central: (Si) (No) (ND) Fecha de inicio: (DD) (MM) (AA) Fecha de finalización: (DD) (MM) (AA)  
 Apoyo respiratorio: (BiPAP) (Intubación) Fecha de inicio: (DD) (MM) (AA) Fecha de finalización: (DD) (MM) (AA)  
 Broncoscopio: (Si) (No) (ND) Fecha de inicio: (DD) (MM) (AA) Fecha de finalización: (DD) (MM) (AA)  
 Fisioterapia: (Si) (No) (ND) Fecha de inicio: (DD) (MM) (AA) Fecha de finalización: (DD) (MM) (AA)

**Tratamientos:**

Quimioterapia: (Si)(No)(ND)  
 Inicio: (DD)(MM)(AA)  
 Finalización: (DD)(MM)(AA)  
 Alimentación parenteral: (Si)(No)(ND)  
 Inicio: (DD)(MM)(AA)  
 Finalización: (DD)(MM)(AA)  
 Corticosteroides: (Si)(No)(ND)  
 ¿Cuál? \_\_\_\_\_ Inicio: (DD)(MM)(AA)  
 Finalización: (DD)(MM)(AA)  
 ¿Cuál? \_\_\_\_\_ Inicio: (DD)(MM)(AA)  
 Finalización: (DD)(MM)(AA)  
 Vasopresores: (Si)(No)(ND)  
 ¿Cuál? \_\_\_\_\_ Inicio: (DD)(MM)(AA)  
 Finalización: (DD)(MM)(AA)

**Antimicrobianos:**

¿Cuál fue el tratamiento de elección para *C. auris* u otro candidemia?: \_\_\_\_\_ dosis: \_\_\_\_\_  
 Inicio: (DD) (MM) (AA) Finalización: (DD) (MM) (AA)

**Otros antimicrobianos:**

Nombre y dosis: \_\_\_\_\_  
 Inicio: (DD) (MM) (AA) Finalización: (DD) (MM) (AA)  
 Nombre y dosis: \_\_\_\_\_  
 Inicio: (DD) (MM) (AA) Finalización: (DD) (MM) (AA)

¿Cuál? _____ Inicio:(DD)(MM)(AA) Finalización:(DD)(MM)(AA) ¿Otros tratamientos? _____ Inicio:(DD)(MM)(AA) Finalización:(DD)(MM)(AA)	Nombre y dosis: _____ Inicio:(DD) (MM) (AA) Finalización:(DD) (MM) (AA) Nombre y dosis: _____ Inicio:(DD) (MM) (AA) Finalización:(DD) (MM) (AA) Nombre y dosis: _____ Inicio:(DD) (MM) (AA) Finalización:(DD) (MM) (AA) Nombre y dosis: _____ Inicio:(DD) (MM) (AA) Finalización:(DD) (MM) (AA)
--	--

### Hallazgos clínicos y del laboratorio

Clínicos:	Laboratorio:	Cultivo de <i>Candida</i>
Peso: _____ Talla: _____ Evidencia de sepsis severa: (Si)(No)(ND) Sepsis: al menos 2 de los siguientes síntomas (a) temperatura >38.3C o <36C, (b) frecuencia cardiaca >90, (c) frecuencia respiratoria >20 con evidencia de infección Sepsis severa = sepsis más falla orgánica ¿El paciente desmejoró clínicamente? (Si)(No)(ND) Fecha: (DD)(MM)(AA) Detalles: _____	(del día más cercano al diagnóstico de candidemia) Fecha: (DD)(MM)(AA) G. blancos: _____ %PMNs: _____ Hb: _____ PQT: _____ Creatinina: _____ BUN: _____ Glucosa: _____ AST: _____ ALT: _____ Bilirrubina total: _____ Albúmina: _____ Lactato: _____	Primer cultivo positivo para <i>C. auris</i> u otro <i>Candida</i> : Fecha:(DD)(MM)(AA) Tipo de muestra: (sangre)(orina) (herida) (lavado bronco alveolar) (otra) ¿Cuál? _____ Concentración inhibitoria mínima: Fluconazol: _____ Voriconazol: _____ Anfotericina: _____ Caspofungina: _____ Anidulafungina: _____ Micafungina: _____
Radiología:		
Alguna alteración radiológica: (Si) (No) (ND) ¿Cuál? _____ Fecha: (DD)(MM)(AA)		

### Cultivos (1 año antes y después del cultivo de *Candida*)

Tipo de Muestra	Fecha de recolección	Fecha de reporte	Resultado (microorganismo aislado)	Concentración inhibitoria mínima
	(DD)(MM)(AA)	(DD)(MM)(AA)		
	(DD)(MM)(AA)	(DD)(MM)(AA)		
	(DD)(MM)(AA)	(DD)(MM)(AA)		
	(DD)(MM)(AA)	(DD)(MM)(AA)		
	(DD)(MM)(AA)	(DD)(MM)(AA)		
	(DD)(MM)(AA)	(DD)(MM)(AA)		

### Información adicional para casos de candidemia en paciente menor de un año

El paciente nació prematuro: (Si)(No)(ND) Tipo de parto: (vaginal) (cesárea)  
 Tiempo de gestación al nacimiento: \_\_\_\_\_ (semanas) Peso al nacer: \_\_\_\_\_ (Kilos)  
 Seleccione el tipo de nutrición que recibió el paciente: (leche materna)(formula)(combinación)(otro)  
 Si recibió formula, ¿Cuál formula recibió? - \_\_\_\_\_  
 Tenía alguna disrupción de la piel (erupción)?: (Si)(No)(ND); ¿Cuál(es)?:  
 \_\_\_\_\_  
 ¿Recibió algún antifúngico profiláctico? (Si)(No)(ND); ¿Cuál(es)?:  
 \_\_\_\_\_  
 ¿Necesitó alguna operación? (Si)(No)(ND) ¿Cuál?: \_\_\_\_\_ Fecha: (DD)(MM)(AA)  
 ¿Cuál?: \_\_\_\_\_ Fecha: (DD)(MM)(AA)  
 ¿Cuál?: \_\_\_\_\_ Fecha: (DD)(MM)(AA)  
 ¿Necesitó otro procedimiento diferente a los mencionados anteriormente? (Si)(No)(ND)  
 ¿Cuál?: \_\_\_\_\_ Fecha: (DD)(MM)(AA)

¿Cuál?: \_\_\_\_\_ Fecha: (DD)(MM)(AA)

El paciente estuvo expuesto a:

- Incubadora (Si)(No)(ND) Fecha: (DD)(MM)(AA) ¿Por cuánto tiempo? \_\_\_\_\_ (horas)(días)(semanas)(meses)
- Tubo de alimentación (Si)(No)(ND) Por dónde? (nariz) (boca) (sonda)

Fecha: (DD)(MM)(AA) ¿Por cuánto tiempo? \_\_\_\_\_ (horas)(días)(semanas)(meses)

- Monitor cardíaco (Si)(No)(ND) Fecha: (DD)(MM)(AA) ¿Por cuánto tiempo? \_\_\_\_\_ (horas)(días)(semanas)(meses)
- Fototerapia: (Si)(No)(ND) Fecha: (DD)(MM)(AA) ¿Por cuánto tiempo? \_\_\_\_\_ (horas)(días)(semanas)(meses)
- Esteroides para el desarrollo respiratorio (Si)(No)(ND) Fecha: (DD)(MM)(AA) ¿Por cuánto tiempo? \_\_\_\_\_ (horas)(días)(semanas)(meses)
- Aditivos para alimentos (Si)(No)(ND) Fecha: (DD)(MM)(AA) ¿Por cuánto tiempo? \_\_\_\_\_ (horas)(días)(semanas)(meses)
- Otro: \_\_\_\_\_ Fecha: (DD)(MM)(AA) ¿Por cuánto tiempo? \_\_\_\_\_ (horas)(días)(semanas)(meses)

- *subjetivo a cambiar a medida que avanza la investigación y nueva información*

## Undetermined risk factors and modes of transmission for *Candida auris* infection — Colombia, 2016

### Appendix 1a. Case Report Form for Cases of *Candida auris* and *Candidemia* [English]

**Appendix 1a. Case Report Form for cases of *Candida auris* and *Candidemia***

Case ID: \_\_\_\_\_ Sex (♂)(♀) Age: \_\_\_\_\_ (years)(months)(days) Address: \_\_\_\_\_  
 Location: Country: \_\_\_\_\_ City: \_\_\_\_\_ Institution: \_\_\_\_\_  
 Date of admission (DD)(MM)(YY) Reason for admission: \_\_\_\_\_  
 Date of discharge (DD)(MM)(YY) Condition at discharge: Alive ( ) Dead ( ) Hospitalized ( ) Unknown ( )

**Location During Hospitalization:**

Was the patient transferred from another facility? (Yes)(No)(UNK)  
 Name and City of Hospital: \_\_\_\_\_ Date of transfer: (DD)(MM)(YY)

Admitted to the ICU: (Si)(No)(ND)  
 Date of admission to the ICU (DD)(MM)(YY) Date of discharge from the ICU (DD)(MM)(YY)

Locations of patient during hospitalization:  
 Unit: \_\_\_\_\_ room: \_\_\_\_\_ Date of arrival: (DD)(MM)(YY) Date leaving: (DD)(MM)(YY)  
 Unit: \_\_\_\_\_ room: \_\_\_\_\_ Date of arrival: (DD)(MM)(YY) Date leaving: (DD)(MM)(YY)  
 Unit: \_\_\_\_\_ room: \_\_\_\_\_ Date of arrival: (DD)(MM)(YY) Date leaving: (DD)(MM)(YY)  
 Unit: \_\_\_\_\_ room: \_\_\_\_\_ Date of arrival: (DD)(MM)(YY) Date leaving: (DD)(MM)(YY)  
 Unit: \_\_\_\_\_ room: \_\_\_\_\_ Date of arrival: (DD)(MM)(YY) Date leaving: (DD)(MM)(YY)

Was the patient in the Operating Room? (Yes)(No)(UNK), If yes, please complete the following:  
 Operating room: \_\_\_\_\_ Date: (DD)(MM)(YY) Procedure/Operation: \_\_\_\_\_  
 Operating room: \_\_\_\_\_ Date: (DD)(MM)(YY) Procedure/Operation: \_\_\_\_\_  
 Operating room: \_\_\_\_\_ Date: (DD)(MM)(YY) Procedure/Operation: \_\_\_\_\_

**Risk Factors**

**Previous Hospitalizations:**

Has the patient been hospitalized in the past 90 days? (Yes)(No)(UNK)  
 Hospital and City: \_\_\_\_\_ Date of Admission: (DD)(MM)(YY)  
 Reason for hospitalization: \_\_\_\_\_ Date of discharge: (DD)(MM)(YY)

Hospital and City: \_\_\_\_\_ Date of Admission: (DD)(MM)(YY)  
 Reason for hospitalization: \_\_\_\_\_ Date of discharge: (DD)(MM)(YY)

Has the patient ever been previously diagnosed with candida?  
 (Yes)(No)(UNK)  
 Date: (DD) (MM) (YY)  
 What species was isolated? \_\_\_\_\_

Has the patient ever previously received an antifungal? (Yes)(No)(UNK)  
 Which? \_\_\_\_\_ Began: (DD)(MM)(YY) Stopped: (DD)(MM)(YY)  
 Indication for treatment: \_\_\_\_\_

**Comorbidities:**

Diabetes: (Yes)(No)(UNK)  
 Solid tumor: (Yes)(No)(UNK)  
 Hematologic Malignancy: (Yes)(No)(UNK)  
 Bone Marrow Transplant: (Yes)(No)(UNK)  
 Chronic renal failure: (Yes)(No)(UNK)  
 Hemodialysis (Yes)(No)(UNK)  
 Liver disease: (Yes)(No)(UNK)  
 Immunosuppressed: (Yes)(No)(UNK)  
 Please select: (Autoimmune)(Transplant)  
 (Corticosteroids)(Cancer)  
 HIV/AIDS: (Yes)(No)(UNK)  
 CD4: \_\_\_\_\_ Viral load: \_\_\_\_\_  
 Others: (Yes)(No)(UNK) Which?: \_\_\_\_\_

**Current Hospitalization**

**Procedure:**

Hemodialysis: (Yes)(No)(UNK) Begin date: (DD) (MM) (YY) End date: (DD) (MM) (YY)  
 Central venous catheter (Yes)(No)(UNK) Begin date: (DD) (MM) (YY) End date: (DD) (MM) (YY)  
 Respiratory support: (BiPAP) (Intubation) Begin date: (DD) (MM) (YY) End date: (DD) (MM) (YY)  
 Bronchoscopy: (Yes)(No)(UNK) Begin date: (DD) (MM) (YY) End date: (DD) (MM) (YY)  
 Physical Therapy: (Yes)(No)(UNK) Begin date: (DD) (MM) (YY) End date: (DD) (MM) (YY)

**Treatments:**

Chemotherapy: (Yes)(No)(UNK) Begin: (DD)(MM)(YY) End: (DD)(MM)(YY)  
 TPN: (Yes)(No)(UNK) Begin: (DD)(MM)(YY) End: (DD)(MM)(YY)  
 Corticosteroides: (Yes)(No)(UNK)  
 ¿Which? \_\_\_\_\_ Begin: (DD)(MM)(YY) End: (DD)(MM)(YY)  
 ¿Which? \_\_\_\_\_ Begin: (DD)(MM)(YY) End: (DD)(MM)(YY)  
 Vasopressors: (Yes)(No)(UNK)  
 ¿Which? \_\_\_\_\_ Begin: (DD)(MM)(YY) End: (DD)(MM)(YY)  
 ¿Which? \_\_\_\_\_ Begin: (DD)(MM)(YY) End: (DD)(MM)(YY)  
 ¿Other treatments?  
 \_\_\_\_\_  
 Begin: (DD)(MM)(YY) End: (DD)(MM)(YY)

**Antimicrobials:**

¿What treatment was used for this candidemia?: \_\_\_\_\_ dose: \_\_\_\_\_  
 Begin: (DD) (MM) (YY) End: (DD) (MM) (YY)  
**Other antimicrobials:**  
 Name and dose: \_\_\_\_\_  
 Begin: (DD) (MM) (YY) End: (DD) (MM) (YY)  
 Name and dose: \_\_\_\_\_  
 Begin: (DD) (MM) (YY) End: (DD) (MM) (YY)  
 Name and dose: \_\_\_\_\_  
 Begin: (DD) (MM) (YY) End: (DD) (MM) (YY)  
 Name and dose: \_\_\_\_\_  
 Begin: (DD) (MM) (YY) End: (DD) (MM) (YY)  
 Name and dose: \_\_\_\_\_  
 Begin: (DD) (MM) (YY) End: (DD) (MM) (YY)

**Clinical and Laboratory Findings**

<p><b>Clinical:</b>                  Weight: _____ Height: _____                  Evidence of severe sepsis(Yes)(No)(UNK)                  Sepsis: at least 2 of the following                  (a) temperature &gt;38.3C or &lt;36C, (b) heart rate &gt;90,                  (c) respiratory rate &gt;20) with evidence of infection                  Severe sepsis = sepsis plus respiratory failure                  Did the patient experience a decompensation during                  the hospital stay? (Yes)(No)(UNK) Date:                  (DD)(MM)(YY)                  Details: _____                  _____</p>	<p><b>Laboratory:</b>                  (closest available to date                  of positive candida                  culture)                  Date:(DD)(MM)(YY)                  WBC: _____                  %PMNs: _____                  Hb: _____                  PLT: _____                  Creatine: _____                  BUN: _____                  Glucose: _____                  AST: _____                  ALT: _____                  Bilirubin total: _____                  Albumin: _____                  Lactate: _____</p>	<p><b>Candida culture</b>                  First positive Candida or <i>C. auris</i> culture:                  Date:(DD)(MM)(YY)                  Type of sample: <b>(blood)(urine) (wound) (BAL) (other)</b>                  Which? _____                  MIC:                  Fluconazole: _____                  Voriconazole: _____                  Amphotericin: _____                  Caspofungin: _____                  Anidulafungin: _____                  Micafungin: _____</p>
<p><b>Radiology:</b>                  Any findings on image: (Yes)(No)(UNK)                  Which? _____                  _____ Date:                  (DD)(MM)(YY)</p>		

**Cultures (1 year before and after positive Candida culture)**

Type of Sample	Date of Collection	Date of Report	Results (microorganism isolated)	MICs
	(DD)(MM)(YY)	(DD)(MM)(YY)		
	(DD)(MM)(YY)	(DD)(MM)(YY)		
	(DD)(MM)(YY)	(DD)(MM)(YY)		
	(DD)(MM)(YY)	(DD)(MM)(YY)		
	(DD)(MM)(YY)	(DD)(MM)(YY)		
	(DD)(MM)(YY)	(DD)(MM)(YY)		

**Additional Information for Candidemia Cases in those less than one year of age**

Born prematurely: (Yes)(No)(UNK) Delivery: (vaginal) (c-section)  
 Gestation at time of birth: \_\_\_\_ (weeks) Birth weight: \_\_\_\_\_ (Kgs)

Select the type of nutrition received: (breastmilk)(formula)(combination)(other)  
 If formula received, what type? \_\_\_\_\_  
 Were any additives, probiotics or thickening agents used (Yes)(No)(UNK): Which? \_\_\_\_\_  
 Date: (DD)(MM)(YY) For how long? \_\_\_\_\_ (hours)(days)(weeks)(months)

Was there any skin breakdown (eg. Rash, open wounds)?: (Yes)(No)(UNK) ; What?: \_\_\_\_\_

Received prophylactic antifungals? (Yes)(No)(UNK) ; Which?: \_\_\_\_\_

Required an operation? (Yes)(No)(UNK) Which?: \_\_\_\_\_ Date: (DD)(MM)(YY)  
 Which?: \_\_\_\_\_ Date: (DD)(MM)(YY)

Any additional procedures performed apart from those mentioned previously or above? ( Yes)(No)(UNK)  
 Which?: \_\_\_\_\_ Date: (DD)(MM)(YY)  
 Which?: \_\_\_\_\_ Date: (DD)(MM)(YY)

Was the patient exposed to any of the following:

- Incubator (Yes)(No)(UNK) Date: (DD)(MM)(YY) For how long? \_\_\_\_\_ (hours)(days)(weeks)(months)
- Feeding tube (Yes)(No)(UNK) Specify: (nose) (mouth) (PEG)  
 Date: (DD)(MM)(YY) For how long? \_\_\_\_\_ (hours)(days)(weeks)(months)
- Cardiac monitor (Yes)(No)(UNK) Date: (DD)(MM)(YY) For how long? \_\_\_\_\_ (hours)(days)(weeks)(months)
- Phototherapy: (Yes)(No)(UNK) Date: (DD)(MM)(YY) For how long? \_\_\_\_\_ (hours)(days)(weeks)(months)
- Steroids for respiratory development (Yes)(No)(UNK)  
 Date: (DD)(MM)(YY) For how long? \_\_\_\_\_ (hours)(days)(weeks)(months)
- Other: \_\_\_\_\_ Date: (DD)(MM)(YY) For how long? \_\_\_\_\_ (hours)(days)(weeks)(months)

*Subject to change as investigation reveals additional information about cases*



## Undetermined risk factors and modes of transmission for *Candida auris* infection — Colombia, 2016

### Appendix 2. Healthcare Provider Interview Questions



1. Did you observe anything notable about patients infected with *C. auris* or *C. haemulonii*\* compared with those infected with other *Candida* species?
  - a. In terms of demographic and clinical characteristics?
  - b. In terms of possible prehospital exposures, including transfer from other hospitals?
  - c. In terms of patient outcomes?
2. Did you observe any possible evidence of transmission of *C. auris* or *C. haemulonii* between patients on a unit or within the hospital? If so, what?
3. Did you observe recurrent *C. auris* or *C. haemulonii* infections within a patient?
4. Do you have any reason to believe that a patient was persistently colonized with *C. auris* or *C. haemulonii*?
5. What type of daily and terminal cleaning methods are used at your hospital, and what cleaning agents are used?
6. Are there special precautions (e.g., Contact Precautions) used for patients with certain infections or colonization at your hospital? If so, what?
7. Do you have any hypotheses or guesses about the source of *C. auris* or *C. haemulonii* infections and why they have recently emerged at your hospital?
8. Do you have any suggestions for this investigation in to *C. auris* or *C. haemulonii* infections?
9. Is there anything else we should know?

\*Note that *C. haemulonii* is included in the questions because most *C. auris* cases in Colombia were initially misidentified as *C. haemulonii*

## Undetermined risk factors and modes of transmission for *Candida auris* infection — Colombia, 2016

### Appendix 3. Patient Open-Ended Interview Questions

*The following questions will be asked about activities in the 3 months before hospitalization with C. auris infection. Patients who have been in the hospital during that entire period will not be asked.\**

1. Did you work or have an occupation? If yes, what type of work?
2. *If yes to 1:* Did your job involve any outdoor activities? If so, what?
3. What, if any, outdoor activities did you do?
4. Did you go swimming? If so, where?
5. Did you or any household members travel outside of your city or town of residence? If so, where?
6. Did you have any type of ear problem, including itching, infection, or discharge? If so, what?
7. Did you insert medicine or any other substance into your ears?
8. Did you use any type of probiotic medication?

Form Approved

OMB No. 0920-1011

Exp. Date 03/31/2017

**Case Interview Questionnaire Form**  
**Shigellosis in Genesee and Saginaw Counties, MI, 2016**

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 Reports Clearance Officer; 1600 Clifton Road NE, MS D-74 Atlanta, Georgia 30333; ATTN: PRA (0920-1011)

**SHIGELLOSIS CASE INTERVIEW FORM**  
**GENESEE AND SAGINAW COUNTIES, MI**  
**October 2016**

**Interviewee Information:** Check here if interviewee is a proxy for a case-patient who is a minor

Last name: \_\_\_\_\_ First name: \_\_\_\_\_

Relationship to reference case: \_\_\_\_\_ Person number (from top row of table 1): \_\_\_\_\_

County of residence:  Genesee  Saginaw MDSS ID (of minor if proxy interviewer): \_\_\_\_\_

Telephone numbers (Add as needed; circle successful number)

( ) ___ - ___	( ) ___ - ___	( ) ___ - ___	( ) ___ - ___	( ) ___ - ___
---------------	---------------	---------------	---------------	---------------

**Telephone Contact History**

Call	Date (MM/DD)	Time	Outcome (codes below)	Caller Initials	Interview completed?	IF DIFFERENT TIME REQUESTED:
1	___ / ___	_____ AM / PM			Yes No	___ / ___ (MM/DD) _____ (AM/PM)
2	___ / ___	_____ AM / PM			Yes No	___ / ___ (MM/DD) _____ (AM/PM)
3	___ / ___	_____ AM / PM			Yes No	___ / ___ (MM/DD) _____ (AM/PM)
4	___ / ___	_____ AM / PM			Yes No	___ / ___ (MM/DD) _____ (AM/PM)
5	___ / ___	_____ AM / PM			Yes No	___ / ___ (MM/DD) _____ (AM/PM)
6	___ / ___	_____ AM / PM			Yes No	___ / ___ (MM/DD) _____ (AM/PM)
7	___ / ___	_____ AM / PM			Yes No	___ / ___ (MM/DD) _____ (AM/PM)
8	___ / ___	_____ AM / PM			Yes No	___ / ___ (MM/DD) _____ (AM/PM)
9	___ / ___	_____ AM / PM			Yes No	___ / ___ (MM/DD) _____ (AM/PM)
10	___ / ___	_____ AM / PM			Yes No	___ / ___ (MM/DD) _____ (AM/PM)
11	___ / ___	_____ AM / PM			Yes No	___ / ___ (MM/DD) _____ (AM/PM)
12	___ / ___	_____ AM / PM			Yes No	___ / ___ (MM/DD) _____ (AM/PM)

**OUTCOME CODES:**

- 01 = completed interview
- 02 = refused interview
- 03 = no answer
- 04 = busy tone
- 05 = non-working number
- 06 = fax machine

- 07 = business phone
- 08 = no eligible respondent
- 09 = language barrier
- 10 = interview terminated within questionnaire
- 11 = physical/mental impairment

- 12 = answering machine
- 13 = setting up a better time
- 99 = unknown

## SECTION 1 Shigellosis

Complete the table on the last page of the packet (Table 1) based on responses to the questions in this section. To make it easier to complete the table, you can detach it from the case interview packet.

"Since I'll be asking you to answer questions about the time you were sick with diarrhea from *Shigella*, it might be helpful to have a calendar handy. Do you need a moment to grab one?" *Wait until interviewee is ready to continue the interview.* "Ok, I'd like to start by confirming the information we have in our records."

1. It looks like you first got sick with diarrhea from *Shigella* on \_\_\_ / \_\_\_ / \_\_\_ (MM / DD / YY)." Refer to the MDSS onset date you pre-populated in the table at the end of this packet. "Is that correct or did your symptoms start on a different day?"
2. At the time you were sick, how old were you? [Confirm the information you wrote in Table 1 is correct]

"Now I'd like to know about the people in your house and if any of them also got sick with symptoms like yours."

3. During the week before you got sick, how many people were living or staying in your household at least 4 nights a week? (include interviewee, if applicable) \_\_\_\_\_ household members

Complete 3a—3d (in Table 1) for **all household members**, confirming the pre-populated information in Table 1 or adding new entries as needed:

- 3a. How old was the person at the time you got sick?
- 3b. What is this person's gender or sex?
- 3c. What is this person's race?
- 3d. What is this person's ethnicity?

4. Did any of these people get sick with symptoms like yours 2 weeks before or 2 weeks after you got sick?  
r No (skip to question 5)    r Yes (go to 4a)

**IF YES:** 4a. Without telling me their names, who got sick? You can refer to them by their age and gender or sex. [Write this into table 1]

4b. Who was the first person in the household to get sick? (**select only one person!**)  
[This is the "index case" – please check the box for "first person ill" in table 1]

"Now I'll ask you some questions about [when you were/everyone in your household who got] sick."

5. For each person in the house who was sick during this time, complete the following questions:  
[Write responses into table 1]

5a. Which of the following symptoms did you [or sick member of your household] have? Read options

5b. How many days [were you/was each person] sick?

5c. Did [you/anyone] receive medical care at any of these settings? Read options and mark all the apply



5d. Antibiotics are medicines that are sometimes used to treat infections. [Were you/Was anyone] prescribed antibiotics when [you/they] were sick?

5e. At the time you [and other members of your household] were sick with diarrhea, did [any of] you have a chronic medical condition for which you had to see your doctor or health care provider regularly?

5f. At the time you [and other members of your household] were sick with diarrhea, did [any of] you have a medical condition that weakens the immune system, or were [any of] you receiving treatment that can weaken your immune system? Examples include receiving a transplant, being on cancer treatment, or being diagnosed with HIV/AIDS.

5g. At the time you [and other members of your household] were sick with diarrhea, [were you/was anyone, including children or adults] wearing diapers?

6. Do you or any adults in your house have any kind of health care coverage, including health insurance, prepaid plans such as HMOs, government plans such as Medicare, or Indian Health Service?

No       Yes       Refused

**IF NO:** skip to question 8.

**IF YES:** check all that apply.

<input type="radio"/> Employer provides	<input type="radio"/> A plan that you or someone else buys on your own
<input type="radio"/> Medicare	<input type="radio"/> Medicaid or Healthy Michigan Plan
<input type="radio"/> Refused	<input type="radio"/> Military, CHAMPUS, or the VA
<input type="radio"/> Don't know	<input type="radio"/> Other: _____

7. Not including the people counted in the last question, did anyone else stay in your home for at least one night during the week before you got sick?

No       Yes

**IF NO:** skip to next section.

**IF YES:** 7a. How many visitors stayed in your home at least one night in the week before you got sick? \_\_\_\_\_ visitors

7b. Were any of these visitors sick with diarrhea at the time they visited?

No       Yes

## SECTION 2      Activities Outside the Home

*The following questions are to be asked of the index case-patient. In the event the index case-patient is a minor, a parent or guardian can serve as proxy, preferably one who was a case-patient reported to MDSS. Once you have determined who will speak for the index case-patient, please indicate in Table 1: "Interviewed:" and also at the top of page 4.*

*Check here if talking to the index case-patient: r*

*Continue interview: "Now I'm going to ask you some questions about activities outside the home."*

*Check here if not talking to the index case-patient: r*

*Continue interview: "Now I'm going to ask you some questions about the first person in your household to get sick. These questions are about activities outside the home. I'd like you to answer them on behalf of the first person who got sick in your household."*

1. In the week before you/they became sick, did you/they work or volunteer at a job outside your home?

No       Yes       Refused

**IF NO:** Skip to 2.

**IF YES:** 1a. Did you/they work in a:

School (K-12) **IF YES:** What grade level? \_\_\_\_\_, then skip to 2.

Healthcare or long-term care facility, continue to 1b.

Childcare/Day Camp/Daycare, skip to 1c.

Other: \_\_\_\_\_, then skip to 2.

1b. What kind of patient care were you/they involved in? *Read options, mark all that apply, then skip to 2*

Nurse

Home health care

Therapist (PT, ST, OT)

MA / Patient Care Technician / Nurse's Aid

Physician/NP/PA

Other: \_\_\_\_\_

1c. What kind of childcare did you/they provide? *Read options and mark all that apply.*

Daycare center worker

Baby-sitter or Nanny

Camp / Day Camp worker

Other: \_\_\_\_\_

2. In the week before you/they became sick, did you/they have contact with any children or adults outside the house who were in diapers?

No       Yes

**IF NO:** Continue to 3.

**IF YES:** 2a. In the week before you/they became sick, did you/they change any diapers?

No       Yes

**SECTION 2      Activities Outside the Home**

**\*\*This question should be asked between questions 1 and 2 in section 2. Please administer question 1 as written regardless of the age of the patient (i.e. if patient is 3 year-old, answer to question 1 will be "No"). Question 1 assesses if you/they are an employee, while question 1.5 assesses if you/they are an attendee.**

Question 1.5: In the week before you/they became sick, did you/they attend any of the following **outside the home**: *(Check all that apply)*

- School (K-12) – If yes, which grade? \_\_\_\_\_
- Post-High School education (College, trade school)
- Daycare center/facility
- Childcare in someone's home (not your own)
- Camp or Day Camp

3. In the week before you/they became sick, did you/they spend one or more nights at another address?  
 No       Yes

**IF NO:** Skip to 4.

**IF YES:** 3a. In which city is this place located? \_\_\_\_\_

3b. At the time you/they stayed there, were any of the household members sick with diarrhea?  
 No       Yes

4. Not including household members and visitors listed already, in the week before you/they became sick did you/they come in contact with anyone outside your home who had diarrhea? *Prompt for extended family, small children, at church, at work.*  
 No       Yes

**IF NO:** Continue to next section.

**IF YES:** 4a. In which of the following settings did you/they come in contact with a person with diarrhea in the week before you/they got sick? *Read options and check all that apply.*

- Daycare
- Camp / Day camp
- School
- Work / volunteering
- Clinic, hospital, or emergency department
- Church
- House of friend / extended family
- Other: \_\_\_\_\_

**SECTION 3      Travel**

*The following questions are to be asked of the index case-patient. In the event the index case is a minor, a parent or guardian can serve as proxy, preferably one who was a case-patient reported to MDSS.*

*If talking to the index case-patient: "Now I'm going to ask you some questions about travel."*

*If not talking to the index case-patient: "Now I'm going to ask you some questions about whether the first person in your household to get sick traveled anywhere."*

1. In the week before you/they became sick, did you/they travel to any other cities in Michigan for work, visit friends, or family, an event, or any other reason?  
   No                    Yes

**IF NO:** Skip to 2.

**IF YES:** 1a. Which cities did you/they travel to?

1a1. \_\_\_\_\_

1a2. \_\_\_\_\_

1a3. \_\_\_\_\_

1a4. \_\_\_\_\_

1a5. \_\_\_\_\_

1b. What type of transportation did you/they use to travel to these cities? *Read options and mark all that apply.*

- Private car
- MTA rideshare
- Greyhound/AMTRAK
- Uber/Lyft/Taxi/Other rideshare company
- Other: \_\_\_\_\_

1c. What activities did you/they do while you/they were traveling during this week before you/they became sick? *Read options and mark all that apply.*

- Community gathering (fair, picnic, church, etc)
- Spent the night with friend/family
- Visit a friend/family (not overnight)
- Shower or bathe
- Go to work
- Other: \_\_\_\_\_

2. In the week before you/they became sick, did you travel outside of Michigan?

No  Yes

**IF NO:** Skip to 3.

**IF YES:** 2a. Where did you/they travel? *List city, state, and country if outside the United States.*

2a1. \_\_\_\_\_

2a2. \_\_\_\_\_

2a3. \_\_\_\_\_

2a4. \_\_\_\_\_

2a5. \_\_\_\_\_

2b. What days were you/they traveling? *Include month and day: \_\_\_\_ / \_\_\_\_ -- \_\_\_\_ / \_\_\_\_*

3. In the week before you/they became ill, did you/they go to any of the following events in your community?

No (Go to Section 4)  Yes (Go to 3a)

3a. Collect additional information about these events in the following table:

#	Event Type (check all that apply)	Location (city, state)	Date of Event	Anyone with diarrhea?
3a	<input type="checkbox"/> Wedding/party/picnic/barbecue <input type="checkbox"/> Fair, carnival, or concert <input type="checkbox"/> Church or School event <input type="checkbox"/> Other: _____		____ / ____ (MM/DD)	Yes No
3b	<input type="checkbox"/> Wedding/party/picnic/barbecue <input type="checkbox"/> Fair, carnival, or concert <input type="checkbox"/> Church or School event <input type="checkbox"/> Other: _____		____ / ____ (MM/DD)	Yes No
3c	<input type="checkbox"/> Wedding/party/picnic/barbecue <input type="checkbox"/> Fair, carnival, or concert <input type="checkbox"/> Church or School event <input type="checkbox"/> Other: _____		____ / ____ (MM/DD)	Yes No
3d	<input type="checkbox"/> Wedding/party/picnic/barbecue <input type="checkbox"/> Fair, carnival, or concert <input type="checkbox"/> Church or School event <input type="checkbox"/> Other: _____		____ / ____ (MM/DD)	Yes No
3e	<input type="checkbox"/> Wedding/party/picnic/barbecue <input type="checkbox"/> Fair, carnival, or concert <input type="checkbox"/> Church or School event <input type="checkbox"/> Other: _____		____ / ____ (MM/DD)	Yes No

**SECTION 4     Food**

*The following questions are to be asked of the index case-patient. In the event the index case is a minor, a parent or guardian can serve as proxy, preferably one who was a case-patient reported to MDSS.*

*If talking to the index case-patient: "Now I'm going to ask you where you ate during the week before you got sick."*

*If not talking to the index case-patient: "Now I'm going to ask you where the first person who got sick in your household ate during the week before they got sick. Do your best to answer the questions on their behalf."*

1. In the week before you/they became sick, did you/they eat any meals prepared at the following types of food establishments? *Read options and mark all that apply.*

- Restaurant
- Fast-food establishment
- Cafeteria
- Deli
- Street-vended food (food truck, food cart)
- Ready-to-eat food served in a supermarket or department store
- Concession stand at sporting event, snack bar, or gas station

2. Can you tell me more about the food establishments where you ate during the week before you got sick?  
*Prompt for the following information:*

Name: \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_ (MM / DD)  
Address: \_\_\_\_\_ Time: \_\_\_\_\_ AM / PM  
Foods eaten: \_\_\_\_\_  
\_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_ (MM / DD)  
Address: \_\_\_\_\_ Time: \_\_\_\_\_ AM / PM  
Foods eaten: \_\_\_\_\_  
\_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_ (MM / DD)  
Address: \_\_\_\_\_ Time: \_\_\_\_\_ AM / PM  
Foods eaten: \_\_\_\_\_  
\_\_\_\_\_

**SECTION 5 Water**

*The following questions are to be asked of the index case-patient. In the event the index case is a minor, a parent or guardian can serve as proxy, preferably one who was a case-patient reported to MDSS.*

*If talking to the index case-patient: "Now I'm going to ask you some questions related to water."*

*If not talking to the index case-patient: "Now I'm going to ask you some questions related to water. Do your best to answer them on behalf of the first person who got sick in your household."*

1. In the week before you got sick, did you/they swim, wade or play in water?  
 No       Yes       Don't know       Refused

**IF NO:** *Skip to 2.*

**IF YES:** *Read the following options and choose all that apply:*

- |  |  |
|--|--|
| <input type="checkbox"/> Ocean Beach                     | <input type="checkbox"/> Recreational water park |
| <input type="checkbox"/> Lake, pond, river, or stream    | <input type="checkbox"/> Natural hot spring      |
| <input type="checkbox"/> Hot tub/spa, whirlpool, Jacuzzi | <input type="checkbox"/> Swimming Pool           |

*"As you know, the outbreak of diarrhea caused by the *Shigella* germ has affected Genesee and Saginaw Counties. Similarly, we recognize that the Flint Water Crisis has had an impact beyond Flint and Genesee County. Since residents of this area have told us that they've changed the way they use water, I'd like to ask whether you've made any changes to the way you use water."*

2. Which one of the following is the source of tap water in your home?  
**(Choose ONE answer – READ OPTIONS)**
- Municipal, city, or county water (Specify name of water utility, if known: \_\_\_\_\_)
  - Private well water
  - No tap water available
  - Refused
  - Other: \_\_\_\_\_

*"Now I'd like to ask how members of your household used water in the week before you became sick. I'll start off by listing the different types of water you might use, then I'll list the things you might use water for."*

*Read types of water (e.g., unfiltered tap water, filtered tap water, etc.), then read water uses (e.g., drinking, mixing cold drinks, etc.).*

*"As an example, members of your household might use both bottled water and unfiltered tap water for preparing hot food. Let's get started. In the week before you got sick, what type of water did members of your household use for..."*

*Begin reading uses of water, starting with 'drinking'. Place a checkmark in boxes that correspond to the interviewee's answers. If different household members use different types of water for any single activity, place a check in each appropriate box.*

	Unfiltered tap water	Filtered tap water	Bottled water	Boiled water	Other (write)	Don't know
Drinking						
Mixing cold drinks (like iced tea, lemonade, cool-aid)						
Hot drinks (like coffee or tea)						
Making ice						
Cooking hot food						
Mixing infant formula						
Brushing teeth						

“Now I’ll ask you how you and members of your household cleaned, cooked, and bathed during the week before you/they got sick. In addition to the types of water we already listed, let me know if you used hand sanitizer or cleansing wipes for any of these tasks.”

*Begin reading down the first column, starting with ‘rinsing fruits, etc’. Place a checkmark in boxes that correspond to the interviewees answers.*

	Unfiltered tap water	Filtered tap water	Bottled water	Boiled water	Hand sanitizer	Cleansing wipes	Other (write)	Don't know
Rinsing fruits, vegetables, other foods								
Washing dishes by hand								
Cleaning kitchen or bathroom counters								
Washing hands								
Bathing/showering								
Bathing someone (like a baby or elder)								
Cleaning diaper-changing station								

3. Since the Flint water crisis, have you changed your bathing and/or showering habits?

No       Yes       Refused

**IF NO:** Skip to 4.

**IF YES:** Can you tell me more about what changes you’ve made to bathing and/or showering habits?



*Here are examples of prompts you can give the participant if need be: method (e.g., cleansing wipes, sponge bathes, bottled water), location (office, someone else's house, etc), frequency (more/less), duration (longer/shorter)*

---

---

---

---

---

---

---

---

4. Since the Flint water crisis, have you changed your handwashing habits?

No       Yes       Refused

**IF NO:** *Skip to script below.*

**IF YES:** Can you tell me more about what changes you've made to handwashing?

*Here are examples of prompts you can give the participant if need be: method (e.g., hand sanitizer, cleansing wipes, soap without water, soap with water), location (office, someone else's house), when (after using the bathroom, after changing diapers, before eating, before preparing food), frequency (more/less), duration (longer/shorter)*

---

---

---

---

---

---

---

---

"That's the end of the interview. Thanks for taking the time to answer these questions today. Is there anything else you'd like to share with us or any questions we can answer for you?"

*Refer to FAQ; if the answer is not listed, record the question below and inform the interviewee that an expert from the health department will call them within 24 hours.*

---

---

---

---

"Would you like us to send you information about *Shigella*, the germ that caused you to get sick?"

No       Yes

**-- END OF INTERVIEW --**

Table 1

Person #	1	2	3	4	5
MDSS ID <i>(if applicable)</i>					
Onset Date MM/DD/YY	___ / ___ (MM/DD)	___ / ___ (MM/DD)	___ / ___ (MM/DD)	___ / ___ (MM/DD)	___ / ___ (MM/DD)
Index Case <i>(select 1 only)</i>	First person ill? <input type="checkbox"/> Yes <input type="checkbox"/> No	First person ill? <input type="checkbox"/> Yes <input type="checkbox"/> No	First person ill? <input type="checkbox"/> Yes <input type="checkbox"/> No	First person ill? <input type="checkbox"/> Yes <input type="checkbox"/> No	First person ill? <input type="checkbox"/> Yes <input type="checkbox"/> No
Age	_____ yrs / mo	_____ yrs / mo	_____ yrs / mo	_____ yrs / mo	_____ yrs / mo
Sex	<input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> Other	<input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> Other	<input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> Other	<input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> Other	<input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> Other
Race	<input type="checkbox"/> Black/African Am. <input type="checkbox"/> White <input type="checkbox"/> Asian <input type="checkbox"/> American Indian <input type="checkbox"/> Hawaiian/Pacific Isl.	<input type="checkbox"/> Black/African Am. <input type="checkbox"/> White <input type="checkbox"/> Asian <input type="checkbox"/> American Indian <input type="checkbox"/> Hawaiian/Pacific Isl.	<input type="checkbox"/> Black/African Am. <input type="checkbox"/> White <input type="checkbox"/> Asian <input type="checkbox"/> American Indian <input type="checkbox"/> Hawaiian/Pacific Isl.	<input type="checkbox"/> Black/African Am. <input type="checkbox"/> White <input type="checkbox"/> Asian <input type="checkbox"/> American Indian <input type="checkbox"/> Hawaiian/Pacific Isl.	<input type="checkbox"/> Black/African Am. <input type="checkbox"/> White <input type="checkbox"/> Asian <input type="checkbox"/> American Indian <input type="checkbox"/> Hawaiian/Pacific Isl.
Ethnicity	<input type="checkbox"/> Hispanic/Latino <input type="checkbox"/> Arab/Chaldean <input type="checkbox"/> Neither	<input type="checkbox"/> Hispanic/Latino <input type="checkbox"/> Arab/Chaldean <input type="checkbox"/> Neither	<input type="checkbox"/> Hispanic/Latino <input type="checkbox"/> Arab/Chaldean <input type="checkbox"/> Neither	<input type="checkbox"/> Hispanic/Latino <input type="checkbox"/> Arab/Chaldean <input type="checkbox"/> Neither	<input type="checkbox"/> Hispanic/Latino <input type="checkbox"/> Arab/Chaldean <input type="checkbox"/> Neither
Was this person ill?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
Symptoms	<input type="checkbox"/> Fever >100F <input type="checkbox"/> Stomach ache <input type="checkbox"/> Diarrhea <input type="checkbox"/> Bloody stools <input type="checkbox"/> Nausea <input type="checkbox"/> Vomiting <input type="checkbox"/> Urgency to have a bowel movement	<input type="checkbox"/> Fever >100F <input type="checkbox"/> Stomach ache <input type="checkbox"/> Diarrhea <input type="checkbox"/> Bloody stools <input type="checkbox"/> Nausea <input type="checkbox"/> Vomiting <input type="checkbox"/> Urgency to have a bowel movement	<input type="checkbox"/> Fever >100F <input type="checkbox"/> Stomach ache <input type="checkbox"/> Diarrhea <input type="checkbox"/> Bloody stools <input type="checkbox"/> Nausea <input type="checkbox"/> Vomiting <input type="checkbox"/> Urgency to have a bowel movement	<input type="checkbox"/> Fever >100F <input type="checkbox"/> Stomach ache <input type="checkbox"/> Diarrhea <input type="checkbox"/> Bloody stools <input type="checkbox"/> Nausea <input type="checkbox"/> Vomiting <input type="checkbox"/> Urgency to have a bowel movement	<input type="checkbox"/> Fever >100F <input type="checkbox"/> Stomach ache <input type="checkbox"/> Diarrhea <input type="checkbox"/> Bloody stools <input type="checkbox"/> Nausea <input type="checkbox"/> Vomiting <input type="checkbox"/> Urgency to have a bowel movement
Duration of illness (days)					
Medical care	<input type="checkbox"/> Doctor office <input type="checkbox"/> Urgent care <input type="checkbox"/> Pharmacy <input type="checkbox"/> Natural healer <input type="checkbox"/> ED <input type="checkbox"/> Hospitalized (admitted >36 hrs) <input type="checkbox"/> None	<input type="checkbox"/> Doctor office <input type="checkbox"/> Urgent care <input type="checkbox"/> Pharmacy <input type="checkbox"/> Natural healer <input type="checkbox"/> ED <input type="checkbox"/> Hospitalized (admitted >36 hrs) <input type="checkbox"/> None	<input type="checkbox"/> Doctor office <input type="checkbox"/> Urgent care <input type="checkbox"/> Pharmacy <input type="checkbox"/> Natural healer <input type="checkbox"/> ED <input type="checkbox"/> Hospitalized (admitted >36 hrs) <input type="checkbox"/> None	<input type="checkbox"/> Doctor office <input type="checkbox"/> Urgent care <input type="checkbox"/> Pharmacy <input type="checkbox"/> Natural healer <input type="checkbox"/> ED <input type="checkbox"/> Hospitalized (admitted >36 hrs) <input type="checkbox"/> None	<input type="checkbox"/> Doctor office <input type="checkbox"/> Urgent care <input type="checkbox"/> Pharmacy <input type="checkbox"/> Natural healer <input type="checkbox"/> ED <input type="checkbox"/> Hospitalized (admitted >36 hrs) <input type="checkbox"/> None
Antibiotics	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
Chronic medical conditions	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
Immuno-compromised	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
Wore diapers	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know

TABLE 1 (Continued)

Person #	6	7	8	9	10
MDSS ID <i>(if applicable)</i>					
Onset Date MM/DD/YY	___ / ___ (MM/DD)	___ / ___ (MM/DD)	___ / ___ (MM/DD)	___ / ___ (MM/DD)	___ / ___ (MM/DD)
Index Case <i>(select 1 only)</i>	First person ill? <input type="checkbox"/> Yes <input type="checkbox"/> No	First person ill? <input type="checkbox"/> Yes <input type="checkbox"/> No	First person ill? <input type="checkbox"/> Yes <input type="checkbox"/> No	First person ill? <input type="checkbox"/> Yes <input type="checkbox"/> No	First person ill? <input type="checkbox"/> Yes <input type="checkbox"/> No
Age	_____ yrs / mo	_____ yrs / mo	_____ yrs / mo	_____ yrs / mo	_____ yrs / mo
Sex	<input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> Other	<input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> Other	<input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> Other	<input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> Other	<input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> Other
Race	<input type="checkbox"/> Black/African Am. <input type="checkbox"/> White <input type="checkbox"/> Asian <input type="checkbox"/> American Indian <input type="checkbox"/> Hawaian/Pacific Isl.	<input type="checkbox"/> Black/African Am. <input type="checkbox"/> White <input type="checkbox"/> Asian <input type="checkbox"/> American Indian <input type="checkbox"/> Hawaian/Pacific Isl.	<input type="checkbox"/> Black/African Am. <input type="checkbox"/> White <input type="checkbox"/> Asian <input type="checkbox"/> American Indian <input type="checkbox"/> Hawaian/Pacific Isl.	<input type="checkbox"/> Black/African Am. <input type="checkbox"/> White <input type="checkbox"/> Asian <input type="checkbox"/> American Indian <input type="checkbox"/> Hawaian/Pacific Isl.	<input type="checkbox"/> Black/African Am. <input type="checkbox"/> White <input type="checkbox"/> Asian <input type="checkbox"/> American Indian <input type="checkbox"/> Hawaian/Pacific Isl.
Ethnicity	<input type="checkbox"/> Hispanic/Latino <input type="checkbox"/> Arab/Chaldean <input type="checkbox"/> Neither	<input type="checkbox"/> Hispanic/Latino <input type="checkbox"/> Arab/Chaldean <input type="checkbox"/> Neither	<input type="checkbox"/> Hispanic/Latino <input type="checkbox"/> Arab/Chaldean <input type="checkbox"/> Neither	<input type="checkbox"/> Hispanic/Latino <input type="checkbox"/> Arab/Chaldean <input type="checkbox"/> Neither	<input type="checkbox"/> Hispanic/Latino <input type="checkbox"/> Arab/Chaldean <input type="checkbox"/> Neither
Was this person ill?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
Symptoms	<input type="checkbox"/> Fever >100F <input type="checkbox"/> Stomach ache <input type="checkbox"/> Diarrhea <input type="checkbox"/> Bloody stools <input type="checkbox"/> Nausea <input type="checkbox"/> Vomiting <input type="checkbox"/> Urgency to have a bowel movement	<input type="checkbox"/> Fever >100F <input type="checkbox"/> Stomach ache <input type="checkbox"/> Diarrhea <input type="checkbox"/> Bloody stools <input type="checkbox"/> Nausea <input type="checkbox"/> Vomiting <input type="checkbox"/> Urgency to have a bowel movement	<input type="checkbox"/> Fever >100F <input type="checkbox"/> Stomach ache <input type="checkbox"/> Diarrhea <input type="checkbox"/> Bloody stools <input type="checkbox"/> Nausea <input type="checkbox"/> Vomiting <input type="checkbox"/> Urgency to have a bowel movement	<input type="checkbox"/> Fever >100F <input type="checkbox"/> Stomach ache <input type="checkbox"/> Diarrhea <input type="checkbox"/> Bloody stools <input type="checkbox"/> Nausea <input type="checkbox"/> Vomiting <input type="checkbox"/> Urgency to have a bowel movement	<input type="checkbox"/> Fever >100F <input type="checkbox"/> Stomach ache <input type="checkbox"/> Diarrhea <input type="checkbox"/> Bloody stools <input type="checkbox"/> Nausea <input type="checkbox"/> Vomiting <input type="checkbox"/> Urgency to have a bowel movement
Duration of illness (days)					
Medical care	<input type="checkbox"/> Doctor office <input type="checkbox"/> Urgent care <input type="checkbox"/> Pharmacy <input type="checkbox"/> Natural healer <input type="checkbox"/> ED <input type="checkbox"/> Hospitalized (admitted >36 hrs) <input type="checkbox"/> None	<input type="checkbox"/> Doctor office <input type="checkbox"/> Urgent care <input type="checkbox"/> Pharmacy <input type="checkbox"/> Natural healer <input type="checkbox"/> ED <input type="checkbox"/> Hospitalized (admitted >36 hrs) <input type="checkbox"/> None	<input type="checkbox"/> Doctor office <input type="checkbox"/> Urgent care <input type="checkbox"/> Pharmacy <input type="checkbox"/> Natural healer <input type="checkbox"/> ED <input type="checkbox"/> Hospitalized (admitted >36 hrs) <input type="checkbox"/> None	<input type="checkbox"/> Doctor office <input type="checkbox"/> Urgent care <input type="checkbox"/> Pharmacy <input type="checkbox"/> Natural healer <input type="checkbox"/> ED <input type="checkbox"/> Hospitalized (admitted >36 hrs) <input type="checkbox"/> None	<input type="checkbox"/> Doctor office <input type="checkbox"/> Urgent care <input type="checkbox"/> Pharmacy <input type="checkbox"/> Natural healer <input type="checkbox"/> ED <input type="checkbox"/> Hospitalized (admitted >36 hrs) <input type="checkbox"/> None
Antibiotics	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
Chronic medical conditions	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
Immuno-compromised	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
Wore diapers	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know