



Invasive Meningococcal Infection (*Neisseria meningitidis*) Investigation Form

Complete in addition to the [Notification of Infectious Disease Form \(EPI-1\)](#). In the event of an outbreak additional forms and specimen collection are required for testing, a VIDOH-EPID staff will coordinate additional paperwork and investigation.

*** All dates follow mm/dd/yyyy format ***

Case Status: <input type="checkbox"/> Confirmed <input type="checkbox"/> Probable <input type="checkbox"/> Suspect <input type="checkbox"/> Not a Case	Island: <input type="checkbox"/> STX <input type="checkbox"/> STT <input type="checkbox"/> STJ <input type="checkbox"/> WI
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Patient's name: _____ <div style="display: flex; justify-content: space-between; font-size: small;"> Last First MI </div> Address: _____ City: _____ *STATE: _____ Zip: _____ Phone 1: () _____ Phone 2: () _____ Date of birth: ___/___/___ Age: ____ Sex: <input type="checkbox"/> Male <input type="checkbox"/> Female <input type="checkbox"/> Unk Race: <input type="checkbox"/> White <input type="checkbox"/> Black <input type="checkbox"/> Asian <input type="checkbox"/> Pacific Islander <input type="checkbox"/> Native American/Alaskan <input type="checkbox"/> Unknown <input type="checkbox"/> Other: _____ Hispanic: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown Parent/guardian's name: _____ * If USVI resident, please indicate ESTATE: _____	Reported by: _____ Agency: _____ Phone: () _____ Date reported: ___/___/___ <hr style="border-top: 1px dotted black;"/> NBS Patient ID: _____ NBS Investigation ID: _____ Investigated by: _____ Agency: _____ Phone: () _____ Email: _____ Investigation start date: ___/___/___ Date investigation completed: ___/___/___
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CLINICAL DATA

Symptom onset date: ___/___/___ **Illness end date:** ___/___/___

Did patient die? Yes, died on: ___/___/___ No, but still ill No, recovered Unknown

Signs and symptoms (Check all that apply):

Fever Sensitivity to light Stiff neck Headache Nausea Vomiting Diarrhea Chills Confusion Fatigue
 Rash, pinpoint red spots (petechiae) Purple, bruise-like areas (purpura) Cold hands/feet Muscle pain Joint pain
 Abdominal pain Shortness of breath Chest pain Cough Seizures Other: _____

Clinical presentation (Check all that apply):

Bacteremia Meningitis Pneumonia Septic arthritis Cellulitis Pericarditis Osteomyelitis Purpura fulminans
 Other: _____

Physician's name: _____ **Physician's phone:** () _____

UNDERLYING CONDITIONS

Does the patient have any underlying health conditions? Yes (check all that apply) No Unknown

Asthma Other chronic lung disease Diabetes End stage renal disease HIV/AIDS Cancer Cochlear implant
 Asplenia (functional or anatomic) Complement component deficiency/inhibition (or taking Soliris) Other: _____

Other prior illness within two weeks of onset? Yes, specify: _____ No Unknown

HEALTH BEHAVIORS (record in underlying conditions in NBS)

Do any of the following apply to the patient? Yes (check behaviors below) No Unknown Refused to answer

Current smoker Alcohol, drinks per week: _____ Intravenous drug use (IVDU), current Other; specify: _____

TREATMENT HISTORY

Did the patient receive antibiotics? Yes, one Yes, multiple No Unknown

If yes, name or type of antibiotic given: _____ Start date: ___/___/___ End date: ___/___/___

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Were any antibiotics given prior to specimen collection? Yes No Unknown

If yes, antibiotic name: _____ given on ___/___/___ at ____:____ AM PM

If yes, antibiotic name: _____ given on ___/___/___ at ____:____ AM PM

HOSPITALIZATION INFORMATION

Was the patient hospitalized? Yes, name of hospital: _____ No Unknown

Date of admission: ___/___/___ Date of discharge: ___/___/___

How many people were in the vehicle that transported the patient to the hospital? _____

Was the patient seen at multiple hospitals? Yes No Unknown *If yes, complete the following table:*

Hospital / Clinic name	Mode of transportation to facility	Date/time of visit/arrival	Date/time of discharge	Discharged to*
	<input type="checkbox"/> drove self <input type="checkbox"/> driven by friend/family <input type="checkbox"/> ambulance <input type="checkbox"/> other: _____			
	<input type="checkbox"/> drove self <input type="checkbox"/> driven by friend/family <input type="checkbox"/> ambulance <input type="checkbox"/> other: _____			

* discharged to home, another facility, or left against medical advice (AMA)

VACCINATION HISTORY

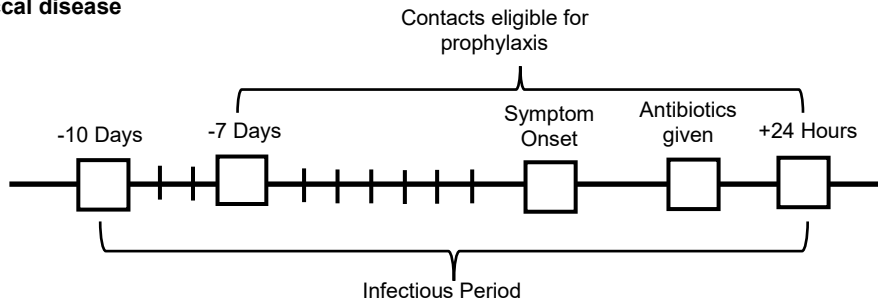
History obtained from: Patient/Parent Primary care physician Reporting physician/facility School ImmTrac Other: _____

Has the patient ever received any meningococcal vaccine? Yes, fill in table below No Unknown*

Dose #	Date dose received	Vaccine Manufacturer	Vaccine Brand/Name	Vaccine Lot Number
1	___/___/___			
2	___/___/___			
3	___/___/___			

*Note: All possible sources of vaccination history above should be exhausted before deciding that vaccination status is "unknown".

Timeline for meningococcal disease



ADDITIONAL EXPOSURE HISTORY

Did the patient travel anywhere during the two weeks prior to onset and up until the patient was diagnosed/treated? Yes No Unk

Travel location: _____ Dates of travel: ___/___/___ to ___/___/___

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Did the patient spend 8 or more hours on an airplane (or bus, train, etc.)? Yes, complete line(s) below No Unknown

Airline: _____ Flight number: _____ Flight date: ___/___/___ Time: ___:___ Departure city: _____

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Did the patient attend any gatherings (e.g., public, church/religious, family, etc.), conventions, meetings, parties, dinners, sporting events, festivals, or other group events during the two weeks prior to onset? Yes, complete the following table No Unknown

Event	Location	# of people present	Date of event
			___/___/___
			___/___/___
			___/___/___

Pt. Name: _____ NBS Pt. ID: _____ Jurisdiction: _____

CONTACTS *Refer to the last page for a description of close contacts*

For the following questions, please ask about the two weeks prior to symptom onset and up until the patient was appropriately treated.

Where was the patient living? Single-family dwelling Duplex, triplex, etc. Apartment/Condo/Townhome Dormitory
 Military barracks Hospital or rehab facility Nursing home or similar Retirement home Correctional facility Detention center
 Shelter/halfway house Camp Other: _____ Unknown

How many people live in the patient's household? _____

How many people did the patient...

Kiss? _____ Share a sleeping area with? _____ Share a toothbrush with? _____ Share food or utensils with? _____ Share drinks with? _____
 Share (brass or wind) band instruments with? _____ Share cigarettes with? _____ Share drugs with? _____

Did the patient perform mouth to mouth resuscitation on anyone? Yes No Unknown

If yes, name of person: _____ Date performed: ____/____/____

Did the patient attend, visit, or work at a school? Yes, student Yes, faculty/staff Yes, visitor No Unknown

If a college student, college year: Fr So Jr Sr Other Live in a dorm? Yes No Unknown

Did the patient attend, stay, visit, or work at a childcare center, home daycare, nursing home, or similar facility? Yes No Unk

If yes, school/facility name: _____ Date last attended/worked/visited before onset: ____/____/____

Total contacts (#): _____ students/residents _____ staff Total close contacts (#): _____ students/residents _____ staff

Did anyone associated with the facility have a similar illness during the two weeks prior to onset? Yes No Unknown

If yes, name of person: _____ Date of onset ____/____/____ *If needed, attach list to this report*

Was the patient in a detention center or correctional facility (e.g., jail, prison, etc.)? Yes, name: _____ No Unknown

Is the patient employed? Yes No Unknown

Occupation: _____ Name/location of employer: _____

Date last worked before treatment: ____/____/____ Description of job duties: _____

During the two weeks prior to onset, did any member of the patient's household have a similar illness? Yes No Unknown

If yes, name of person: _____ Date of onset ____/____/____

If yes, name of person: _____ Date of onset ____/____/____

SEXUAL CONTACTS

Please ask the patient the following questions:

During the past 12 months, have you had sex with only males, only females, or with both males and females?

Males only Females only Both males and females Unknown Refused to answer

Do you consider yourself to be: Heterosexual/Straight Gay/Lesbian/Homosexual Bisexual Other: _____ Refused

Thinking back to the 3 months before you were diagnosed with meningococcal disease, how many MEN did you have sex with during that time?

Number of men: _____ (Known Estimated) Unknown (no number given) Refused to answer

PROPHYLAXIS

Date prophylaxis recommendations were first made: ____/____/____

Prophylaxis provided by (check all that apply): DSHS or LHD Hospital Private physician Other: _____ None given

Number of people	Household	Students at school &/or daycare	Staff at school &/or daycare	Residents at long term care facility	Staff at long term care facility	Healthcare workers including EMS	Other close contacts*
Prophylaxis recommended for:							
Declined recommended prophylaxis:							
Received prophylaxis:							

* Friends, colleagues, extended family, etc.

Pt. Name: _____ NBS Pt. ID: _____ Jurisdiction: _____

LABORATORY DATA

Isolate sent to DSHS (required)? Yes, on ___/___/___; DSHS#: _____ No, reason: _____ Unknown

Was *Neisseria meningitidis* testing done?

Yes, complete sections below No, diagnosis based on clinical purpura fulminans Other: _____

Gram stain:

Date and time collected: ___/___/___; ___:___ AM PM Specimen Source: CSF Blood Other: _____

Result: Gram-negative diplococci Negative Inconclusive Unknown Other: _____

CSF Profile: Date collected: ___/___/___ Appearance: _____ Pressure: _____ mm H₂O

Glucose: _____ mg/dL Protein: _____ mg/dL RBCs: _____ mm³ WBCs: _____ mm³ Lymphs: _____ % Polys: _____ % Mono: _____ %

Culture:

Date and time collected: ___/___/___; ___:___ AM PM Specimen Source: CSF Blood Other: _____

Result: Positive for: _____ Negative Inconclusive Unknown Other: _____

Other test:

Test type: Latex agglutination Immunohistochemistry (IHC) PCR Other: _____

Date and time collected: ___/___/___; ___:___ AM PM Specimen Source: CSF Blood Other: _____

Result: Positive for: _____ Negative Inconclusive Unknown Other: _____

Serogroup results : A B C Y W135 Other: _____ Not groupable Unknown Pending

ADDITIONAL HEALTH DEPARTMENT ACTIONS AND CONTROL MEASURES IMPLEMENTED (check all that apply and indicate date initiated)

- Confirmed that symptomatic individuals are placed on droplet precautions until 24 hours after effective antibiotic treatment on ___/___/___
- Reviewed high risk exposures with medical provider on ___/___/___
- Contact tracing (identifying close contacts through patient or surrogate interview) initiated on ___/___/___
- Education (risk, transmission, symptoms) provided to contacts starting on ___/___/___
- Requested the hospital or laboratory forward the isolate to the DSHS lab on ___/___/___
- Worked with school, daycare or long term care facility to identify and notify close contacts starting on ___/___/___
- Other (specify): _____ on ___/___/___
- Other (specify) _____ on ___/___/___

COMMENTS

PROPHYLAXIS RECOMMENDATIONS

THE FOLLOWING GROUPS OF INDIVIDUALS SHOULD RECEIVE CHEMOPROPHYLAXIS AFTER EXPOSURE TO MENINGOCOCCAL DISEASE

Groups of individuals recommended to receive prophylaxis after to exposure with a person with invasive meningococcal disease:

- All close family contacts, household members, and anyone who frequently slept in the same dwelling as the case.
- Classroom contacts in the preschool, childcare center, or childcare home attended by the case.
- Persons directly exposed to infectious oral secretions without personal protective equipment (PPE) including through kissing, sharing utensils, sharing toothbrushes, or unprotected mouth to mouth resuscitation, intubation, or suctioning procedures
- Passengers seated directly next to the case during airline flights lasting 8 hours or more.

It is important that antimicrobial chemoprophylaxis be administered as soon as possible, ideally within 24 hours. The incubation period is 1 to 10 days. Chemoprophylaxis given more than 14 days after exposure is of limited value.

When prophylaxis is indicated, it should be administered to all eligible contacts at the same time to eliminate the organism from the population. Prophylaxis should begin within 24 hours of diagnosis or strong suspicion of case. Culturing of contacts is not recommended. Prophylaxis should not substitute for close observation of case contacts for symptoms. Refer to the current American Academy of Pediatrics Red Book for prophylaxis dosages.

Prophylaxis is not recommended for casual contacts without direct exposure to the patient's oral secretions (e.g., work or school, except as noted above). All contacts should be provided education on risk, transmission, and symptoms.