

- All participants must register for the Monthly Disease Surveillance Trainings in order for us to provide CMEs:
 1. Log-on or Request log-on ID/password: <https://tiny.army.mil/r/zB8A/CME>
 2. Register for FY17 Epi-Tech Surveillance Training: <https://tiny.army.mil/r/4TgNE/EpiTechFY17>
- Confirm attendance for today's training:
 - Enter your full name/email address in the chat box; enter each individual's information if attending with a group
 - You will receive a confirmation email within 48 hours
 - Contact your Service Hub if you do not receive this email
- Please put your phones on mute when not speaking. Press *6 to mute/unmute your phone.

Armed Forces Reportable Medical Event Changes



U.S. ARMY PUBLIC HEALTH CENTER



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27 June 2017

At the end of the presentation, the learner will be able to:

Describe medical events that have been removed from the reportable events list

Identify medical events that have been added to the reportable events list

Understand other edits that have been made to the case definitions of existing DoD reportable medical events (RMEs)



Reportable Medical Events



Reportable Medical Events may represent an **inherent, significant threat** to public health and military operations. These events have the potential to affect large numbers of people, to be widely transmitted within a population, to have severe/life threatening clinical manifestations, and to disrupt military training and deployment.



Importance of Reporting



Timely, accurate reporting of probable, suspected, or confirmed cases ensures proper identification, treatment, control, and follow-up of cases.



The reporting of important preventable medical events has long been a **cornerstone** of public health surveillance rooted in international and national regulations to **prevent** the **introduction, transmission, and spread** of communicable diseases.



Requirement to Report



- It is required to report medical events within the DoD as defined in Armed Forces Guide. Reference documents include:
 - DoD:
 - DODD 6490.02E “Comprehensive Health Surveillance”
 - DODI 6490.03 “Deployment Health”
 - Joint Publication 4-02 “Doctrine for Health Service Support for Joint Operations”
 - CJCS Memorandum MCM 0025-07 “Procedures for Deployment Health Surveillance”
 - Army:
 - Army Regulations 40-5 “Medical Services Preventive Medicine”
 - Department of the Army Pamphlet 10-11 “Medical Services Preventative Medicine”
 - Navy:
 - Navy Manual of the Medical Department p-117 articles and 2 and 19
 - BUMED INST 6220.12 series “Medical Surveillance and Medical Event Reporting”
 - Coast Guard:
 - Coast Guard Medical Manual COMDTINST M6000.1F “Chapter 7, Preventive Medicine”

Armed Forces Reportable Medical Events Guidelines & Case Definitions

SUMMARY OF PROPOSED CHANGES

What's different?

- Focus on the local reporter as the primary user
- New introductory pages that provide more context for local reporting
- Case definitions in a new format designed to be more reader friendly
 - Combined laboratory criteria with case classification section
- Standardized language to be more congruent with wording found in AHLTA and CHCS
- Laboratory and clinical criteria for all diseases align with Nationally Notifiable Disease Surveillance System*

The following diseases have been newly **added** to this guide:

- **Chikungunya Virus Disease**
- **Novel and Variant Influenza**
- **Post-Exposure Prophylaxis (PEP) against Rabies***
- **Zika Virus**

CONFIRMED

A case that meets the clinical description with **ANY** of the following:

- CHIK identified by culture
- CHIK (+) antigen
- CHIK RNA detected by PCR
- At least a 4-fold increase of antibody titer between acute and convalescent sera
- CHIK (+) IgM antibodies from serum followed by confirmatory virus-specific antibodies (ex: PRNT) in the same or later specimen

PROBABLE

A case that meets the clinical description with **ALL** of the following:

- CHIK positive IgM antibody from CSF or serum **AND**
- No other laboratory data

CONFIRMED

A case that meets the clinical description with **ANY** of the following:

- Novel or variant Influenza A (NoVIA) identified in culture or
- NoVIA nucleic acid (RNA) detected by PCR or gene sequencing or
- At least a four-fold increase of NoVIA antibody titer between acute and convalescent sera or
- NoVIA virus identified by another testing method as determined by DoD

PROBABLE

A case that meets the clinical description with no or inconclusive laboratory testing for novel or variant influenza A virus and that meets **ANY** of the following:

- Contact with a confirmed case of novel or variant influenza
- OR**
- Travel to an area with known cases of novel or variant influenza **and**
 - Exposure to animals known to transmit novel or variant influenza (e.g. birds or pigs)

CONFIRMED

A case that meets the exposure criteria in which rabies PEP is initiated and a full rabies exposure* risk assessment is completed

*Exposure defined as one or more of the following:

- Any bite, scratch, or other situation in which saliva or CNS tissue of a rabid or potentially rabid animal
- Inadvertent bat contact
- Recipient of organ donation from suspected or known human case of rabies

PROBABLE

No probable case definition

CONFIRMED

ANY of the following:

- ZV identified by culture* or
- ZV (+) antigen* or
- ZV nucleic acid (RNA) detected* (ex. PCR, sequencing, NAAT) or
- ZV (+) IgM antibody from serum or CSF with a (+) PRNT titer against Zika **AND** a (-) PRNT titer against Dengue* (or other flaviviruses endemic to the region where exposure occurred)

*from any acceptable clinical specimen

PROBABLE

A case with **ALL** of the following:

- Meets the exposure criteria **AND**
- ZV (+) IgM antibody from serum or CSF **with any** of the following:
 - Dengue virus (-) IgM antibody and NO ZV PRNT test performed or
 - (+) PRNT titer against Zika and Dengue (or other flavivirus endemic to the region where exposure occurred)

CONFIRMED

ANY of the following:

- ZV identified by culture*
- ZV (+) antigen*
- ZV nucleic acid (RNA) detected (ex: PCR, sequencing, NAAT)*
- ZV (+) IgM antibody from umbilical cord blood, neonatal serum, or neonatal CSF* with a (+) PRNT titer against ZV and a (-) PRNT titer against Dengue (or other flaviviruses endemic to exposure region)

*from any acceptable neonatal clinical specimen within 2 days of birth

PROBABLE

A case with **ALL** of the following:

- Mother meets the exposure criteria or the laboratory criteria for ZV, non-congenital AND
- Zika virus (+) IgM antibody from neonatal serum or neonatal CSF collected within 2 days of birth with any of the following:
 - Dengue virus (-) IgM antibody and no Zika virus PRNT test performed or
 - (+) PRNT titer against Zika and Dengue (or other flaviviruses endemic to the exposure region)

The following diseases have been **removed** from this guide and **are no longer reportable**:

- **Rheumatic Fever**
- **Invasive Group A Streptococcus**



- Amebiasis
 - Probable case definition **added**
- Arboviral Diseases
 - Non-neuroinvasive arboviral disease **added**
 - **Name changed** to Arboviral diseases
- Cold Weather Injuries
 - Probable case classification **added**
- Cryptosporidiosis
 - Clinical symptoms are no longer required for reporting
- Dengue Virus Infection
 - Suspect case classification **removed**
- Filarial Infections
 - Probable case classification **added**
- Hantavirus Disease
 - Non-pulmonary disease **added**
- Heat Illness
 - Heat injury category **removed**
 - Probable case classification **added** for heat stroke
- Measles
 - Suspect case classification **removed**

- Pertussis
 - Probable case classification for infants **added**
- Rocky Mountain Spotted Fever
 - Reporting of other rickettsiosis species **added**
 - **Name changed** to Spotted Fever Rickettsiosis
- Salmonellosis
 - Suspect case classification **added**
- Shigellosis
 - Suspect case classification **added**
- Syphilis
 - Entire disease updated including laboratory criteria
- Trichinosis
 - Suspect and probable case classifications **added**
- Tuberculosis
 - Suspect case classification **added**
- Typhus Fever
 - Removed Rickettsia species which are now included in Spotted Fever Rickettsiosis
- Varicella
 - Reporting of all beneficiaries **added**

Arboviral diseases, neuroinvasive and non-neuroinvasive

(see page 14)

INCLUDES

- West Nile fever
- West Nile encephalitis
- Japanese encephalitis
- Western Equine encephalitis
- Eastern Equine encephalitis
- St. Louis encephalitis
- California virus encephalitis
- Powassan virus
- Tick-borne encephalitis

EXCLUDES

- Rift Valley Fever
- Dengue Virus Infections
- Zika Virus
- Chikungunya Virus Disease

(see respective case definitions)

Medical Event

Diagnosis

Arboviral Diseases, Neuroinvasive and Non-neuroinvasive

Date of Onset

[Empty field] [Select]

Reporting Unit

00168 - WALTER REED NATL MIL MED CNTR

Method of Confirmation

[Empty dropdown]

Case Classification Status

[Empty dropdown]

MER Status

[Empty dropdown]

Date of Report

6/6/2017

Case Classification Status should be classified as suspect, probable or confirmed according to the current Armed Forces Reportable Medical Events Guidelines [Armed Forces Reportable Medical Events Guidelines](#).

Laboratory Tests

Clear Section Responses

Virus-specific IgM antibody Positive Pending Negative

Virus identified by culture Positive Pending Negative

Virus-specific antigen Positive Pending Negative

Virus-specific nucleic acid (RNA) Positive Pending Negative

At least a four-fold change of virus-specific antibody titers between acute and convalescent sera Positive Pending Negative

Virus-specific neutralizing antibody Positive Pending Negative

Other labs not listed [Empty text box]

Event Related Questions

Please specify whether the illness is neuroinvasive or non-neuroinvasive. [Empty dropdown]

Please specify the etiologic/causative agent.

- California Virus Encephalitis
 - Japanese Encephalitis
 - Powassan Virus Disease
 - St. Louis Encephalitis
 - Tick-Borne Encephalitis
 - West Nile Virus
 - Western Equine Encephalitis
 - Other (please specify in comments)
- Africa - XA
Albania - AL
Algeria - AG

employment related No

Was this exposure duty related?

Pertinent travel?

If there was pertinent travel, please select the countries of travel. (use ctrl-key to click all that apply)

Vaccine History: Has the case been vaccinated against the disease? Yes No

Please document exposure history (e.g., occupational exposures). [Empty text box]

Comments

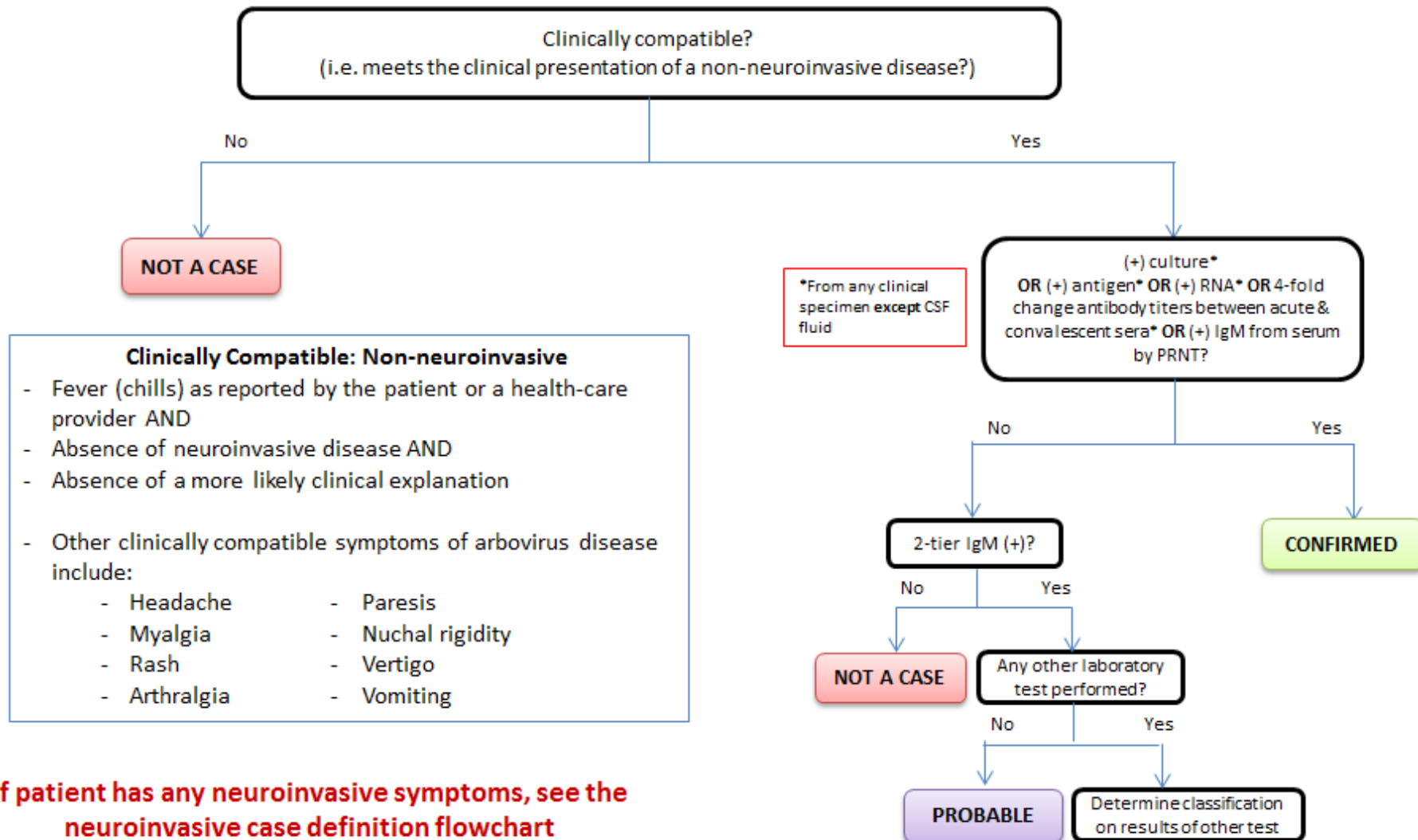
Comments (2,000 characters maximum)

[Empty text box]

Arboviral Disease: non-neuroinvasive

INCLUDES: West Nile fever, West Nile encephalitis, Japanese encephalitis, Western Equine encephalitis, Eastern equine Encephalitis, St. Louis encephalitis, California virus encephalitis, Powassan virus, tick-borne encephalitis

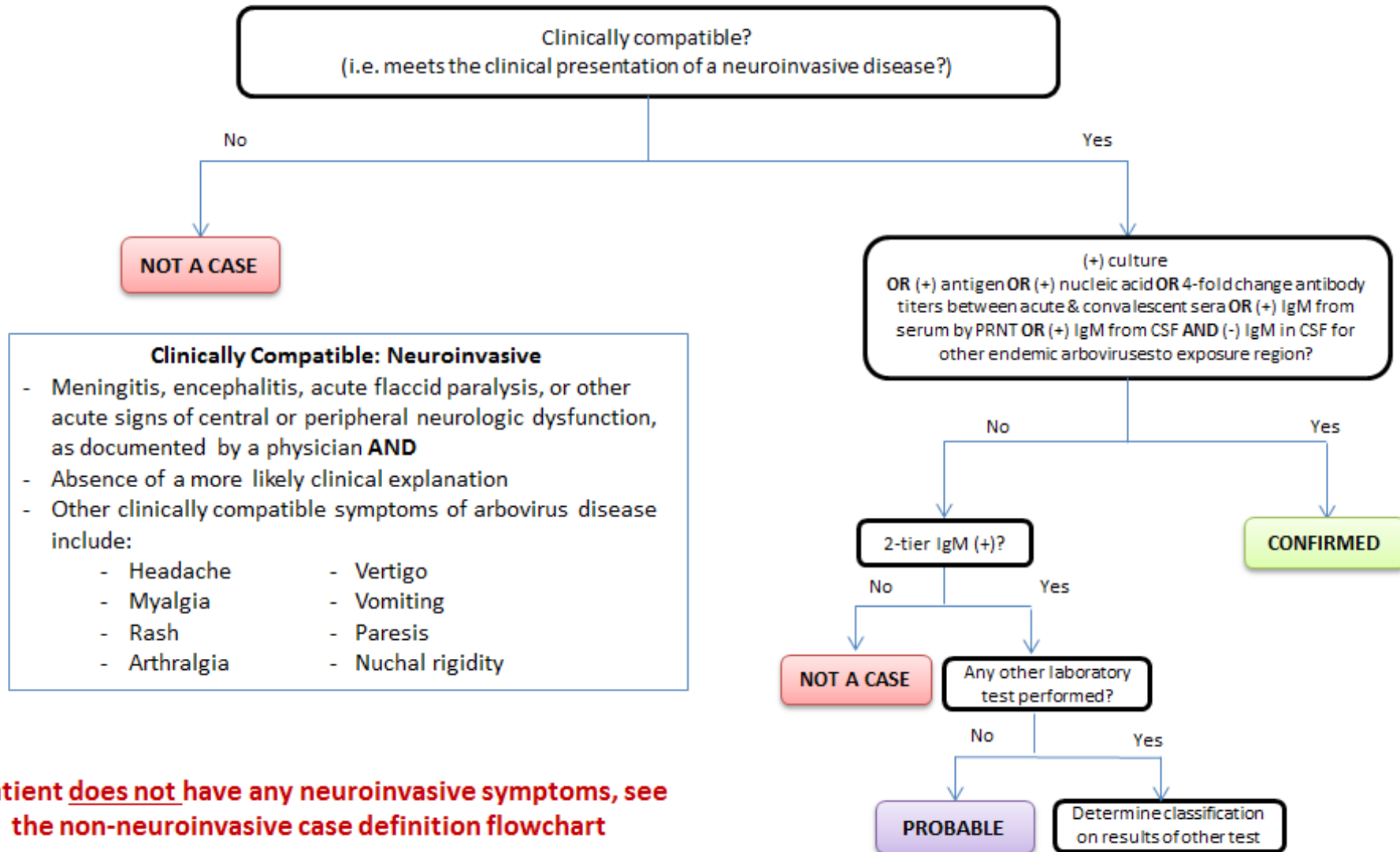
EXCLUDES: Rift Valley fever, dengue virus, Zika virus, and Chikungunya virus. See respective case definition



Arboviral Disease: Neuroinvasive

INCLUDES: West Nile fever, West Nile encephalitis, Japanese encephalitis, Western Equine encephalitis, Eastern equine Encephalitis, St. Louis encephalitis, California virus encephalitis, Powassan virus, tick-borne encephalitis

EXCLUDES: Rift Valley fever, dengue virus, Zika virus, and Chikungunya virus. See respective case definition



CONFIRMED

Includes **ALL** of the following:

- Core body temperature $> 100.5^{\circ}\text{F}$ or 38°C and $<104^{\circ}\text{F}$ or 40°C (or evidence of elevated core body temperature if cooling was initiated in the field) **and**
- Short-term physical collapse or debilitation occurring during or shortly after physical exertion that rapidly resolves with minimal cooling intervention **and**
- No evidence of CNS dysfunction or only minor CNS symptoms (e.g. headache, dizziness, that rapidly resolves with minimal cooling intervention)

PROBABLE

No probable case definition for heat exhaustion

CONFIRMED

A case that meets the clinical description as described above occurring during/immediately after exertion or heat exposure with **ALL** of the following:

- Core body temperature $\geq 104^{\circ}\text{F}$ or 40°C **and**
- CNS dysfunction (change in mental status, delirium, stupor, loss of consciousness, or coma)

PROBABLE

A case that meets the clinical description of heat stroke as described above occurring during/immediately after exertion or heat exposure with **ALL** of the following:

- Evidence of elevated core body temperature (even if cooling was initiated in the field) **and**
- CNS dysfunction (change in mental status, delirium, stupor, loss of consciousness, or coma)

Medical Event

Diagnosis

Heat Illness

Date of Onset

Select

Reporting Unit

00168 - WALTER REED NATL MIL MED CNTR

Method of Confirmation

Case Classification Status

MER Status

Date of Report

6/6/2017

Case Classification Status should be classified as suspect, probable or confirmed according to the current Armed Forces Reportable Medical Events Guidelines [Armed Forces Reportable Medical Events Guidelines](#).

Event Related Questions

Was the patient hospitalized?

Yes No

Date of hospital admission

Place of hospital admission

Indicate all clinical features present (ctrl-click to select more than one):

Organ Damage
Hypo/hyperkalemia
Elevated AST or ALT
Elevated CK

Please indicate the worst observed mental status of the case

Core Body temperature (maximum measured core temperature prior to cooling, in degrees F)

Specify the type of Heat illness

Heat Exhaustion
Heat Stroke

Activity at time of illness

Specify wet bulb globe temperature (WBGT, in degrees F)

Is the case symptomatic per the Armed Forces Reportable Medical Events Guidelines? Yes No

Comments

Comments (2,000 characters maximum)

1. Is there a clear case definition?
2. Are there control and/or prevention measures that can be put into place or need to be tracked within the DoD?
3. Is reporting of the event the only sufficient, timely source of the necessary information?
4. Does it represent an inherent, significant threat to military public health?
5. Does it represent a significant military operational threat?
6. Does it have the potential to inform military program guidance or policy?
7. Is the tactical burden of reporting worth the time and effort?
8. Is the event commonly reportable by state or federal laws, regulations, or guidelines?



Common Terminology



Case Definition:

Represents the specific clinical, laboratory, and other criteria that must be met for a disease or condition to be reportable

Reportable Medical Event (RME):

A medical event or condition mandatory for reporting

Medical Event Reporting (MER):

The actual report containing information from the RME that is physically entered into the Disease Reporting System internet (DRSi)

Background:

This section of the case definition provides descriptive information about the RME. The background includes information about the causative agent, travel risks, and clinical description

Clinical Description:

A brief description of clinical signs and symptoms. Unless the clinical description is explicitly referenced in the case classification section of the case definition, it is included only as background information

Clinical Reporting Elements:

Additional information is sometimes required for specific MERs. Ensure the information listed in the Required Comments section of the case definition is recorded in the MER. **If the information is unavailable, indicate so**

Epidemiologically Linked (Epi-Link):

A case in which the patient:

- a) Had **contact** with a confirmed or probable case, as defined by the case definition, or

- b) Was **exposed** to the same source of infection as a probable or confirmed case, or

- c) Is a member of a **risk group** as defined by Public Health during an outbreak

Incident Cases:

Only incident cases are reportable. Incident cases are **newly diagnosed cases** in a person, regardless of how long the person has been sick

Example:

A patient with chronic Hepatitis B that is being seen for follow-up and has already been reported through DRSi **does not** need to be reported, regardless of new laboratory results

Case Classification:

A case classification specifies what is needed to meet the case definition of a reportable event. A case definition can be grouped into three classification categories

Suspected **Probable** **Confirmed**

Each case classification has **its own specific set** of clinical and/or laboratory criteria.

Not all RMEs have all three case classifications

Suspect

- Early identification of the disease is critical for disease control
- Case definition usually limited to clinical symptoms without lab results

NOTE: Some RMEs **do not** have a suspect case classification.

Example:

A patient with no symptomatic information available, but has a positive culture and/or positive IgG or IgM antibody for *Anaplasmosis phagocytophilum* and no other laboratory evidence of any other pathogen

Probable

- Case definition is usually more detailed than suspected classification
- Does not have all the required elements for confirmed case

Example:

A patient with a fever $>101^{\circ}\text{F}$ and headache and a positive IgG or IgM (=1:64) antibody test for *Anaplasmosis phagocytophilum*

Confirmed

- Case definition is **the most specific**
- Usually requires laboratory support

Example:

A patient with a fever $>101^{\circ}\text{F}$ and headache, AND an IgG antibody test with a fourfold increase (= 1:256+), or a +PCR, or +culture for *Anaplasma phagocytophilum*

- **HIV** is not reportable through DRSi
- **Healthcare-associated infections.** Report healthcare associated infections to your Infection Control Practitioner (ICP)
- **Prevalent cases.** DRSi is a reporting tool for **incident** cases only



IDENTIFY AND CLASSIFY THE CASE!

A 23 year old patient is seen with complaints of a large round lesion. The patient mentions they were camping in Virginia last weekend and noticed several ticks on themselves. The provider diagnosed this as an erythema migrans, caused by Lyme disease, and no labs were ordered.

How should this be entered into DRSi?

(see page 52)

You receive a report of a positive PCR test for Salmonella from stool from a patient who reported having diarrhea and abdominal pain for several days. The provider diagnosed Salmonella and issued treatment. No other laboratory tests were ordered.

How should this be entered into DRSi?

(see page 72)

A male patient who recently returned from Puerto Rico has an acute onset of fever and conjunctivitis for “about a week”. They are tested for Zika, Chikungunya, and Dengue. The Zika RNA is positive, and the Dengue IgM is negative but the IgG is positive. The Chikungunya IgM is positive but IgG negative.

How should this be entered into DRSi?

(see page 20, 28, and 97)

A patient that has just been attacked by an angry dog and is seen in ER for treatment. The provider recommends post-exposure prophylaxis against rabies, but the patient refuses, assuming the dog was just having a bad day. The dog and its owners cannot be found to determine its vaccination history.

How should this be entered into DRSi?

(see page 65)



[Help](#) [About](#)

ADRSi :: Medical Event Record

Welcome: Julianna Kebisek

Delete MER

Submit

Print Screen



FMP's Demographic

Sponsor's SSN: 111111111

Case ID	FMP SSN	FMP	First Name	Last Name	MI	Sex	Date of Birth
<input type="text"/>	<input type="text" value="525252525"/>	<input type="text" value="03"/>	<input type="text" value="Cow"/>	<input type="text" value="Brown"/>	<input type="text"/>	<input type="text" value="M"/>	<input type="text" value="5/27/1975"/>

Race/Ethnicity

Beneficiary Category

Medical Event

Diagnosis

Date of Onset

Reporting Unit

Date of Diagnosis

Date of Clinic Visit

Method of Confirmation

Case Classification Status

MER Status

Date of Report

Case Classification Status should be classified as suspect, probable or confirmed according to the current Armed Forces Reportable Medical Events Guidelines [Armed Forces Reportable Medical Events Guidelines](#).



Questions/Service POCs



- **Army:** **APHC – Disease Epidemiology Division**
Aberdeen Proving Ground, MD
COMM: (410) 436-7605 DSN: 584-7605
Email:
usarmy.apg.medcom-aphc.mbx.disease-epidemiologyprogram13@mail.mil

- **Navy:** **NMCPHC Preventive Medicine Programs and Policy Support Department**
COMM: (757) 953-0700; DSN: (312) 377-0700
Email:
usn.hampton-roads.navmcpubhlthcenpors.list.nmcpHC-threatassess@mail.mil

 Contact your cognizant NEPMU:
 NEPMU2: COMM: (757) 950-6600; DSN: (312) 377-6600
 Email:
 usn.hampton-roads.navhospporsva.list.nepmu2norfolk-threatassess@mail.mil
 NEPMU5: COMM: (619) 556-7070; DSN (312) 526-7070
 Email:
 usn.san-diego.navenpvntmedufive.list.nepmu5-health-surveillance@mail.mil
 NEPMU6: COMM: (808) 471-0237; DSN: (315) 471-0237
 Email: usn.jbphh.navenpvntmedusixhi.list.nepmu6@mail.mil
 NEPMU7: COMM (int): 011-34-956-82-2230 (local): 727-2230; DSN: 94-314-727-2230
 Email: NEPMU7@eu.navy.mil

QUESTIONS?