



TENNESSEE DEPARTMENT OF HEALTH
HEALTHCARE-ASSOCIATED INFECTIONS AND ANTIMICROBIAL RESISTANCE PROGRAM
HAI Surveillance Definitions
EYE, EAR, NOSE, THROAT OR MOUTH INFECTION (EENT)



CONJ – Conjunctivitis

(Last updated January 1, 2015)

DEFINITION: Conjunctivitis must meet at least **ONE** ☐ of the following criteria:

☐ Criterion 1: *(Last updated January 1, 2015)*

- ☐ Patient has organism(s) cultured from purulent exudate obtained from **ONE** ☐ of the following:

- ☐ conjunctiva

- ☐ contiguous tissues, including **ONE** ☐ of the following:

- ☐ eyelid

- ☐ cornea

- ☐ meibomian glands

- ☐ lacrimal glands

☐ Criterion 2: *(Last updated January 1, 2015)*

- ☐ Patient has **ONE** ☐ of the following:

- ☐ pain in **ONE** ☐ of the following places:

- ☐ conjunctiva

- ☐ around eye

- ☐ redness in **ONE** ☐ of the following places:

- ☐ conjunctiva

- ☐ around eye

AND

- ☐ Patient has at least **ONE** ☐ of the following:

- ☐ has **BOTH** ☐ of the following:

- ☐ WBCs seen on Gram stain of exudate

- ☐ organisms seen on Gram stain of exudate

- ☐ purulent exudate

- ☐ positive non-culture diagnostic lab test* on **ONE** ☐ of the following:

- (* e.g. antigen tests such as ELISA or IF for Chlamydia trachomatis, herpes simplex virus, adenovirus)*

- ☐ conjunctival exudate

- ☐ conjunctival scraping

- ☐ multinucleated giant cells seen on microscopic examination of **ONE** ☐ of the following:

- ☐ conjunctival exudate

- ☐ conjunctival scraping



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△ positive viral culture on **ONE** ☐ of the following:

- ☐ conjunctival exudate
- ☐ conjunctival scraping

△ choose **ONE** ☐ of the following:

- ☐ diagnostic single antibody titer (IgM) for organism
- ☐ 4-fold increase in paired sera (IgG) for organism

REPORTING INSTRUCTIONS: *(Last updated January 1, 2015)*

- Report other infections of the eye as EYE.
- Do not report chemical conjunctivitis caused by silver nitrate (AgNO₃) as a health care–associated infection.
- Do not report a separate case of conjunctivitis that occurs as a part of another viral illness (e.g., URI)



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EAR – Ear Mastoid Infection

(Last updated January 1, 2015)

DEFINITION: Ear and mastoid infections must meet at least **ONE** ☐ of the following criteria:

☐ Otitis externa must meet at least **ONE** ☐ of the following criteria:

☐ Criterion 1: *(Last updated January 1, 2015)*

- ☐ Patient has organism(s) cultured from purulent drainage from ear canal.

☐ Criterion 2: *(Last updated January 1, 2015)*

- ☐ Patient has at least **ONE** ☐ of the following localized signs or symptoms: (\pm as documented in the medical record; * with no other recognized cause)

- ☐ fever ($>38.0^{\circ}\text{C}$) \pm

- ☐ pain*

- ☐ erythema*

AND

- ☐ Patient has organism(s) seen on Gram stain of purulent drainage from ear canal

☐ Otitis media must meet at least **ONE** ☐ of the following criteria:

☐ Criterion 1: *(Last updated January 1, 2015)*

- ☐ Patient has organism(s) cultured from fluid from middle ear obtained during invasive procedure (e.g., tympanocentesis)

☐ Criterion 2: *(Last updated January 1, 2015)*

- ☐ Patient has at least **TWO** ☐ of the following localized signs or symptoms: (\pm as documented in the medical record; * with no other recognized cause)

- ☐ fever ($>38.0^{\circ}\text{C}$) \pm

- ☐ pain*

- ☐ inflammation*

- ☐ retraction of eardrum decreased mobility of eardrum*

- ☐ fluid behind eardrum*

☐ Otitis interna must meet at least **ONE** ☐ of the following criteria:

☐ Criterion 1: *(Last updated January 1, 2013)*

- ☐ Patient has organism(s) cultured from fluid from inner ear obtained during an invasive procedure



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☐ **Criterion 2:** (Last updated June, 2008)

- Patient has a physician diagnosis of inner ear infection

☐ **Mastoiditis** must meet at least **ONE** ☐ of the following criteria:

☐ **Criterion 1:** (Last updated January 1, 2015)

- Patient has organism(s) cultured from **ONE** ☐ of the following:

- ☐ fluid from mastoid
- ☐ tissue from mastoid

☐ **Criterion 2:** (Last updated January 1, 2015)

- Patient has at least **TWO** ☐ of the following localized signs or symptoms: (**± as documented in the medical record; * with no other recognized cause**)

- ☐ fever ($>38.0^{\circ}\text{C}$)**±**
- ☐ pain or tenderness*
- ☐ post auricular swelling*
- ☐ erythema*
- ☐ headache*
- ☐ facial paralysis*

AND

- Patient has at least **ONE** ☐ of the following:

- ☐ organisms seen on Gram stain from **ONE** ☐ of the following:
 - ☐ fluid from mastoid
 - ☐ tissue from mastoid
- ☐ positive non-culture diagnostic lab test* from **ONE** ☐ of the following:
(* **antigen test, PCR**)
 - ☐ fluid from mastoid
 - ☐ tissue from mastoid
- ☐ imaging test evidence suggestive of infection (e.g., CT scan), which if equivocal is supported by clinical correlation



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EYE – Eye Infection, Other Than Conjunctivitis

(Last updated January 1, 2015)

DEFINITION: An infection of the eye, other than conjunctivitis, must meet at least **ONE** ☐ of the following criteria:

☐ Criterion 1: *(Last updated June, 2008)*

- ☐ Patient has organism(s) cultured from **ONE** ☐ of the following:

- ☐ anterior chamber
- ☐ posterior chamber
- ☐ vitreous fluid

☐ Criterion 2: *(Last updated January 1, 2015)*

- ☐ Patient has at least **TWO** ☐ of the following signs or symptoms with no other recognized cause:

- ☐ eye pain
- ☐ visual disturbance
- ☐ hypopyon

AND

- ☐ Patient has at least **ONE** ☐ of the following:

- ☐ physician initiates antimicrobial therapy within two days from **ONE** ☐ of the following:
 - ☐ onset of symptoms
 - ☐ worsening of symptoms
- ☐ positive non-culture lab test on blood (e.g., antigen test, PCR)



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ORAL – Oral Cavity Infection (Mouth, Tongue, or Gums)

(Last updated January 1, 2015)

DEFINITION: Oral cavity infections must meet at least **ONE** ☐ of the following criteria:

☐ Criterion 1: (Last updated January 1, 2015)

- Patient has organisms cultured from **ONE** ☐ of the following:
 - ☐ abscess from tissues of oral cavity
 - ☐ purulent material from tissues of oral cavity

☐ Criterion 2: (Last updated January 1, 2015)

- Patient has **ONE** ☐ of the following:
 - ☐ abscess found during **ONE** ☐ of the following:
 - ☐ invasive procedure
 - ☐ gross anatomic exam
 - ☐ histopathologic exam
 - ☐ other evidence of oral cavity infection found during **ONE** ☐ of the following:
 - ☐ invasive procedure
 - ☐ gross anatomic exam
 - ☐ histopathologic exam

☐ Criterion 3: (Last updated January 1, 2015)

- Patient has at least **ONE** ☐ of the following signs or symptoms with no other recognized cause:
 - ☐ ulceration
 - ☐ raised white patches on inflamed mucosa
 - ☐ plaques on oral mucosa
- AND**
- Patient has at least **ONE** ☐ of the following:
 - ☐ positive non-culture diagnostic lab test* from **ONE** ☐ of the following:
(* e.g., antigen test, PCR)
 - ☐ mucosal scrapings
 - ☐ oral exudate
 - ☐ multinucleated giant cells seen on microscopic examination of **ONE** ☐ of the following:
 - ☐ mucosal scrapings
 - ☐ mucosal exudate



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△ positive viral culture on **ONE** ☐ of the following:

- ☐ mucosal scrapings
- ☐ mucosal exudate

△ **ONE** ☐ of the following:

- ☐ diagnostic single antibody titer (IgM)
- ☐ 4-fold increase in paired sera (IgG) for organism

△ fungal elements seen on microscopic exam* of **ONE** ☐ of the following:
(* e.g., *Gram stain*, *KOH*)

- ☐ mucosal scrapings
- ☐ mucosal exudate

△ physician initiates antimicrobial therapy within 2 days of **ONE** ☐ of the following:

- ☐ onset of symptoms
- ☐ worsening of symptoms

REPORTING INSTRUCTIONS: (Last updated June, 2008)

- Report healthcare–associated primary herpes simplex infections of the oral cavity as ORAL; recurrent herpes infections are **not** health care–associated.



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SINU – Sinusitis

(Last updated January 1, 2015)

DEFINITION: Sinusitis must meet at least **ONE** ☐ of the following criteria:

☐ Criterion 1: (Last updated January 1, 2015)

- ☐ Patient has organisms cultured from purulent material obtained from sinus cavity
- ☐ Patient has organisms cultured from **ONE** ☐ of the following:
 - ☐ fluid from the sinus cavity obtained during an invasive procedure
 - ☐ tissue from the sinus cavity obtained during an invasive procedure

☐ Criterion 2: (Last updated January 1, 2013)

- ☐ Patient has at least **ONE** ☐ of the following signs or symptoms: (± as documented in the medical record; * with no other recognized cause)
 - ☐ fever ($>38.0^{\circ}\text{C}$)±
 - ☐ pain or tenderness over the involved sinus*
 - ☐ headache*
 - ☐ purulent exudate*
 - ☐ nasal obstruction*

AND

- ☐ Imaging test evidence of sinusitis (e.g., x-ray, CT scan)



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UR – Upper Respiratory Tract Infection, Pharyngitis, Laryngitis, Epiglottitis

(Last updated January 1, 2015)

DEFINITION: Upper respiratory tract infections must meet at least **ONE** ☐ of the following criteria:

☐ Criterion 1: (Last updated January 1, 2015)

- ☐ Patient has at least **TWO** ☐ of the following signs or symptoms: (\pm as documented in the medical record; * with no other recognized cause)

- ☐ fever ($>38.0^{\circ}\text{C}$) \pm
- ☐ erythema of pharynx*
- ☐ sore throat*
- ☐ cough*
- ☐ hoarseness*
- ☐ purulent exudate in throat*

AND

- ☐ Patient has at least **ONE** ☐ of the following:

- ☐ organisms cultured from upper respiratory site*, including **ANY** ☐ of the following:
(* **NOTE:** excludes sputum because sputum is not an upper respiratory specimen)

- ☐ larynx
- ☐ pharynx
- ☐ epiglottis
- ☐ other, specify _____

- ☐ positive non-culture diagnostic laboratory test from upper respiratory site*, including **ANY** ☐ of the following:

(* **NOTE:** excludes sputum because sputum is not an upper respiratory specimen)

- ☐ larynx
- ☐ pharynx
- ☐ epiglottis
- ☐ other, specify _____

- ☐ choose **ONE** ☐ of the following:

- ☐ diagnostic single antibody titer (IgM) for organism
- ☐ 4-fold increase in paired sera (IgG) for organism

- ☐ physician diagnosis of an upper respiratory infection

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□ Criterion 2: (Last updated January 1, 2015)

- Patient has an abscess seen on **ONE** **△** of the following:

- △** gross anatomical exam
- △** histopathologic exam
- △** image test

□ Criterion 3: (Last updated January 1, 2015)

- Patient ≤1 year of age has at least **TWO** **△** of the following signs or symptoms: (**± as documented in the medical record; * with no other recognized cause**)

- △** fever ($>38.0^{\circ}\text{C}$)**±**
- △** hypothermia ($<36.0^{\circ}\text{C}$)**±**
- △** apnea*
- △** bradycardia*
- △** nasal discharge*
- △** purulent exudate in throat*

AND

- Patient has at least **ONE** **△** of the following:

- △** organisms cultured from upper respiratory site*, including **ANY** **□** of the following:

(* **NOTE:** excludes sputum because sputum is not an upper respiratory specimen)

- larynx
- pharynx
- epiglottis
- other, specify _____

- △** positive non-culture diagnostic laboratory test from upper respiratory site*, including **ANY** **□** of the following:

(* **NOTE:** excludes sputum because sputum is not an upper respiratory specimen)

- larynx
- pharynx
- epiglottis
- other, specify _____

- △** choose **ONE** **□** of the following:

- diagnostic single antibody titer (IgM) for organism
- 4-fold increase in paired sera (IgG) for organism

- △** physician diagnosis of an upper respiratory infection