



Public Health  
England

Protecting and improving the nation's health

# ECDC-PPS 2016

Data Collection Forms and Flow Charts

# Instructions

This should be printed full size on both sides of A4 paper.

Sheet 3. Ward sheet. One sheet needed per ward

Sheet 4. Grouped denominator data. 1 page per 10 patients (e.g. if a ward has 24 patients, 3 sheets required for the ward)

Sheet 5 and 6 if not using Sheet 4, this should be printed on both sides of an A4 sheet per patient surveyed (e.g. if not using Sheet 4, for a ward with 24 patients, needs 24 sheets)

Sheet 7 and 8 should be used if using Sheet 4, this should be printed on both sides of an A4 sheet per patient on antibiotics or with HAI (e.g. if using Sheet 4, for a ward with 24 patients, only need sheets for those on antibiotics or have active HAI)

Sheet 9-19 are flow charts. It is recommended that these are printed and laminated for use on the wards by the data collectors to assist with case definitions for HAI.

Hospital code: \_\_\_\_\_ Ward name/unit ID<sup>1</sup>: \_\_\_\_\_ Survey date<sup>2</sup>: \_\_\_\_/\_\_\_\_/\_\_\_\_

### For 2015/2016 financial year (or most recent FY data)

This should be requested from hospital analysts and procurement team and be available before web data entry commences

	Number	Year
Number of patient days*		____/____
Alcohol hand rub (AHR) consumption		____/____
Number of hand hygiene opportunities		____/____

\* Provide data for same year as AHR consumption

### Please provide for all eligible<sup>3</sup> patients

Consultant/patient specialty (see codebook)	Number

Data to be reported at time of survey	Number
Number of eligible <sup>3</sup> patients on ward	
Number of beds	
Number of beds with AHR dispenser	
Number of healthcare workers (HCWs)	
Number of HCWs carrying AHR	
Number of rooms	
Number of single rooms	
Number of single rooms with individual toilet and shower	
Number of beds occupied at midnight the night before survey	

**Is there a formal procedure (external to primary clinical team or ward pharmacy team) to review the appropriateness of an antimicrobial within 72 hours from the initial order in this ward (post-prescription review)?**

Yes     No     Unknown

### Comments/observations:

<sup>1</sup> Unique identifier for each unit (abbreviated ward name) within a hospital; this should remain identical between PPS years

<sup>2</sup> Patients on the same ward should be included on a single day

<sup>3</sup> Patients admitted to the ward before or at 8:00 AM and not discharged from the ward at time of survey

# Point Prevalence Survey 2016: healthcare-associated infections and antimicrobial use

## Ward handover form

Protecting and improving  
the nation's health

To be completed for all eligible patients<sup>1</sup> at time of survey

Hospital code: \_\_\_\_\_ Ward name/unit ID<sup>2</sup>: \_\_\_\_\_ Survey date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Initials	NHS no.	Hosp. no.	DoB	Gender M/F/U/O	Adm. date	Specialty <sup>3</sup> If <3m or on NICU include birthwt too	Surgery <sup>4</sup>	McCabe score (Non/Ult/ Rap/ Unk)	CVC Y/N/U	PVC Y/N/U	Urinary catheter Y/N/U	Intubated Y/N/U	Abx <sup>5</sup> Y/N	HAI <sup>6</sup> Y/N

<sup>1</sup> Patients admitted to the ward before or at 8:00 AM and not discharged from the ward at time of survey  
<sup>2</sup> Unique identifier for each unit (abbreviated ward name) within a hospital  
<sup>3</sup> See codebook for patient specialty (the specialty of consultant looking after the patient)  
<sup>4</sup> Surgery since admission - No surgery / Minimal invasive/non-NHSN surgery/ Unknown If NHSN surgery → specify  
<sup>5</sup> At the time of the survey, except for surgical prophylaxis 24h before 8:00 AM on the day of the survey; if yes, fill antimicrobial use data; if patient receives >5 antimicrobials, add a new form  
<sup>6</sup> [infection with onset ≥ Day 3, OR SSI criteria met (surgery in previous 30d/90d), OR discharged from acute care hospital <48h ago, OR CDI and discharged from acute care hospital < 28 days ago OR onset < Day 3 after invasive device/procedure on D1 or D2] **AND** [HAI case criteria met on survey day OR patient is receiving (any) treatment for HAI AND case criteria are met between D1 of treatment and survey day; if patient has >3 HAI, add a new form

Hospital code: \_\_\_\_\_ Ward name/unit ID<sup>1</sup>: \_\_\_\_\_ Survey date: \_\_\_\_/\_\_\_\_/\_\_\_\_

### Collect for all eligible patients

NHS number: \_\_\_\_\_

Hospital number: \_\_\_\_\_

Date of birth: \_\_\_\_/\_\_\_\_/\_\_\_\_ Gender: \_\_\_\_\_

Admission date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Consultant/patient specialty<sup>2</sup>: \_\_\_\_\_

### Surgery since admission (most recent NHSN surgery)?

- No surgery     Minimal invasive/non-NHSN surgery  
 Unknown     NHSN surgery → specify<sup>2</sup> \_\_\_\_\_

### McCabe score

- Non-fatal disease                       Ultimately fatal disease  
 Rapidly fatal disease                       Unknown

If neonate, birthweight \_\_\_\_\_ grams (less than 3m/ NICU)

### Presence of any of the following (at time of survey):

- Central venous catheter:     Yes  No  Unknown  
Peripheral venous catheter:  Yes  No  Unknown  
Urinary catheter:             Yes  No  Unknown  
Intubation:                     Yes  No  Unknown

How many antimicrobials is the patient receiving<sup>3</sup>? \_\_\_\_\_

If ≥ 1, complete antimicrobial usage data \_\_\_\_\_

How many active HAIs does the patient have<sup>4</sup>? \_\_\_\_\_

If ≥ 1, complete HAI data form [over page]

Antimicrobial (generic name)	Route	Dosage per day		Indication	Infection site	Reason documented in notes	Date this AM started	AM changed? (+ reason)	If antibiotic changed: Date AM started for this indication (not site)	Antibiotic Review? (b/n 48-72h after start)
		Number of doses	Strength per dose (mg/MU)							
							/ /		/ /	
							/ /		/ /	
							/ /		/ /	
							/ /		/ /	
							/ /		/ /	

**Route:** P: parenteral, O: oral, R: rectal, I: inhalation; **Dosage:** Number of doses – OD, BD, TDS, QDS, 5 per day, 6 per day, every 18 hours, every 36 hours, every 48 hours, twice per week, three times per week, continuous infusion; **Strength of dose** in MU or mg (ie if in g convert to mg by x1000); **Indication:** treatment intention for community (CI), long-term care (LI) or acute hospital (HI) infection; surgical prophylaxis: SP1: single dose, SP2: one day, SP3: >1day; MP: medical prophylaxis; O: other; UI: Unknown indication; **Infection site:** see site list, only for CI-LI-HI; **Reason in notes:** Y/N; **AM changed? (+ reason):** N=no change; E=escalation; D=De-escalation; S=switch IV to oral; A=adverse effects; OU=changed, other/unknown reason; U=unknown; **If changed, date 1<sup>st</sup> AM started** given for the same indication; **Antibiotic Review:** C=Continue; I=IV to Oral Switch; CH=Change to another antimicrobial; O=OPAT; UNK =Unknown, not dedicated; NA=not applicable (i.e. treatment is less than 2 days)

<sup>1</sup> Unique identifier for each unit (abbreviated ward name) within a hospital

<sup>2</sup> See codebook

<sup>3</sup> At the time of the survey, except for surgical prophylaxis 24h before 8:00 AM on the day of the survey; if yes, fill antimicrobial use data; if patient receives >5 antimicrobials, add a new form

<sup>4</sup> [infection with onset ≥ Day 3, OR SSI criteria met (surgery in previous 30d/90d), OR discharged from acute care hospital <48h ago, OR CDI and discharged from acute care hospital < 28 days ago OR onset < Day 3 after invasive device/procedure on D1 or D2] **AND** [HAI case criteria met on survey day OR patient is receiving (any) treatment for HAI AND case criteria are met between D1 of treatment and survey day]; if patient has >3 HAI, add a new form

Hospital code: \_\_\_\_\_ Ward name/unit ID<sup>1</sup>: \_\_\_\_\_ Survey date: \_\_\_\_/\_\_\_\_/\_\_\_\_

NHS number: \_\_\_\_\_ Hospital number: \_\_\_\_\_ Date of birth: \_\_\_\_/\_\_\_\_/\_\_\_\_ Gender: \_\_\_\_\_

	HAI 1				HAI 2				HAI 3			
<b>Infection type</b>												
<b>Invasive device<sup>2</sup></b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
<b>Present on admission</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
<b>Date of onset<sup>3</sup></b>	/ /				/ /				/ /			
<b>Origin of infection</b>	<input type="checkbox"/> Current hospital <input type="checkbox"/> Other hospital <input type="checkbox"/> Other/ unknown				<input type="checkbox"/> Current hospital <input type="checkbox"/> Other hospital <input type="checkbox"/> Other/ unknown				<input type="checkbox"/> Current hospital <input type="checkbox"/> Other hospital <input type="checkbox"/> Other/ unknown			
<b>HAI associated to current ward</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
<b>If BSI: source<sup>4</sup></b>												
	MO code	AMR		PDR	MO code	AMR		PDR	MO code	AMR		PDR
		AB <sup>5</sup>	SIR			AB <sup>5</sup>	SIR			AB <sup>5</sup>	SIR	
<b>Microorganism 1</b>												
<b>Microorganism 2</b>												
<b>Microorganism 3</b>												

<sup>1</sup> Unique identifier for each unit (abbreviated ward name) within a hospital

<sup>2</sup> Relevant invasive device present (even intermittently) 48 hours before onset infection; intubation for pneumonia (PN); CVC/PVC for BSI; urinary catheter for UTI

<sup>3</sup> Only for infections not present/active on admission (dd/mm/yyyy)

<sup>4</sup> C-CVC (central venous catheter), C-PVC (peripheral venous catheter), S-PUL (pulmonary infection), S-UTI (urinary tract infection), S-DIG (digestive tract infection), S-SSI (surgical site infection), S-SST (skin/soft tissue infection), S-OTH (other), UO (none of the above, BSI of unknown origin, clinically asserted), UNK (unknown)

<sup>5</sup> AB: tested antibiotic(s); STAAUR: OXA (includes oxacillin or other marker for MRSA such as cefoxitin, cloxacillin, dicloxacillin, flucloxacillin or methicillin) and GLY; Enterococci: GLY; *Enterobacteriaceae*: C3G and CAR; PSEAER and ACIBAU: CAR; SIR: S=sensitive, I=intermediate, R=resistant, U=unknown; PDR: Pan-drug resistant: N=No, P=Possible, C=Confirmed, U=Unknown

Hospital code: \_\_\_\_\_ Ward name/unit ID<sup>1</sup>: \_\_\_\_\_ Survey date: \_\_\_\_/\_\_\_\_/\_\_\_\_

NHS number: \_\_\_\_\_ Hospital number: \_\_\_\_\_ Date of birth: \_\_\_\_/\_\_\_\_/\_\_\_\_ Gender: \_\_\_\_\_

Antimicrobial (generic name)	Route	Dosage per day		Indication	Infection site	Reason documented in notes	Date this AM started	AM changed? (+ reason)	If antibiotic changed: Date AM started for this indication (not site)	Antibiotic Review? (b/n 48- 72h after start)
		Number of doses	Strength per dose (mg/MU)							
							/ /		/ /	
							/ /		/ /	
							/ /		/ /	
							/ /		/ /	
							/ /		/ /	

<sup>1</sup> Unique identifier for each unit (abbreviated ward name) within a hospital

**Route:** P: parenteral, O: oral, R: rectal, I: inhalation; **Dosage: Number of doses** – OD, BD, TDS, QDS, 5 per day, 6 per day, every 18 hours, every 36 hours, every 48 hours, twice per week, three times per week, continuous infusion; **Strength of dose** in MU or mg (ie if in g convert to mg by x1000); **Indication:** treatment intention for community (CI), long-term care (LI) or acute hospital (HI) infection; surgical prophylaxis: SP1: single dose, SP2: one day, SP3: >1day; MP: medical prophylaxis; O: other; UI: Unknown indication; **Infection site:** see site list, only for CI-LI-HI; **Reason in notes:** Y/N; **AM changed? (+ reason):** N=no change; E=escalation; D=De-escalation; S=switch IV to oral; A=adverse effects; OU=changed, other/unknown reason; U=unknown; **If changed, date 1<sup>st</sup> AM started** given for the same indication; **Antibiotic Review:** C=Continue; I=IV to Oral Switch; CH=Change to another antimicrobial; O=OPAT; UNK =Unknown, not dedicated; NA=not applicable (i.e. treatment is less than 2 days)

Hospital code: \_\_\_\_\_ Ward name/unit ID<sup>1</sup>: \_\_\_\_\_ Survey date: \_\_\_\_/\_\_\_\_/\_\_\_\_

NHS number: \_\_\_\_\_ Hospital number: \_\_\_\_\_ Date of birth: \_\_\_\_/\_\_\_\_/\_\_\_\_ Gender: \_\_\_\_\_

	HAI 1				HAI 2				HAI 3			
<b>Infection type</b>												
<b>Invasive device<sup>2</sup></b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
<b>Present on admission</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
<b>Date of onset<sup>3</sup></b>	/ /				/ /				/ /			
<b>Origin of infection</b>	<input type="checkbox"/> Current hospital <input type="checkbox"/> Other hospital <input type="checkbox"/> Other/ unknown				<input type="checkbox"/> Current hospital <input type="checkbox"/> Other hospital <input type="checkbox"/> Other/ unknown				<input type="checkbox"/> Current hospital <input type="checkbox"/> Other hospital <input type="checkbox"/> Other/ unknown			
<b>HAI associated to current ward</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
<b>If BSI: source<sup>4</sup></b>												
	MO code	AMR		PDR	MO code	AMR		PDR	MO code	AMR		PDR
		AB <sup>5</sup>	SIR			AB <sup>5</sup>	SIR			AB <sup>5</sup>	SIR	
<b>Microorganism 1</b>												
<b>Microorganism 2</b>												
<b>Microorganism 3</b>												

<sup>1</sup> Unique identifier for each unit (abbreviated ward name) within a hospital

<sup>2</sup> Relevant invasive device present (even intermittently) 48 hours before onset infection; intubation for pneumonia (PN); CVC/PVC for BSI; urinary catheter for UTI

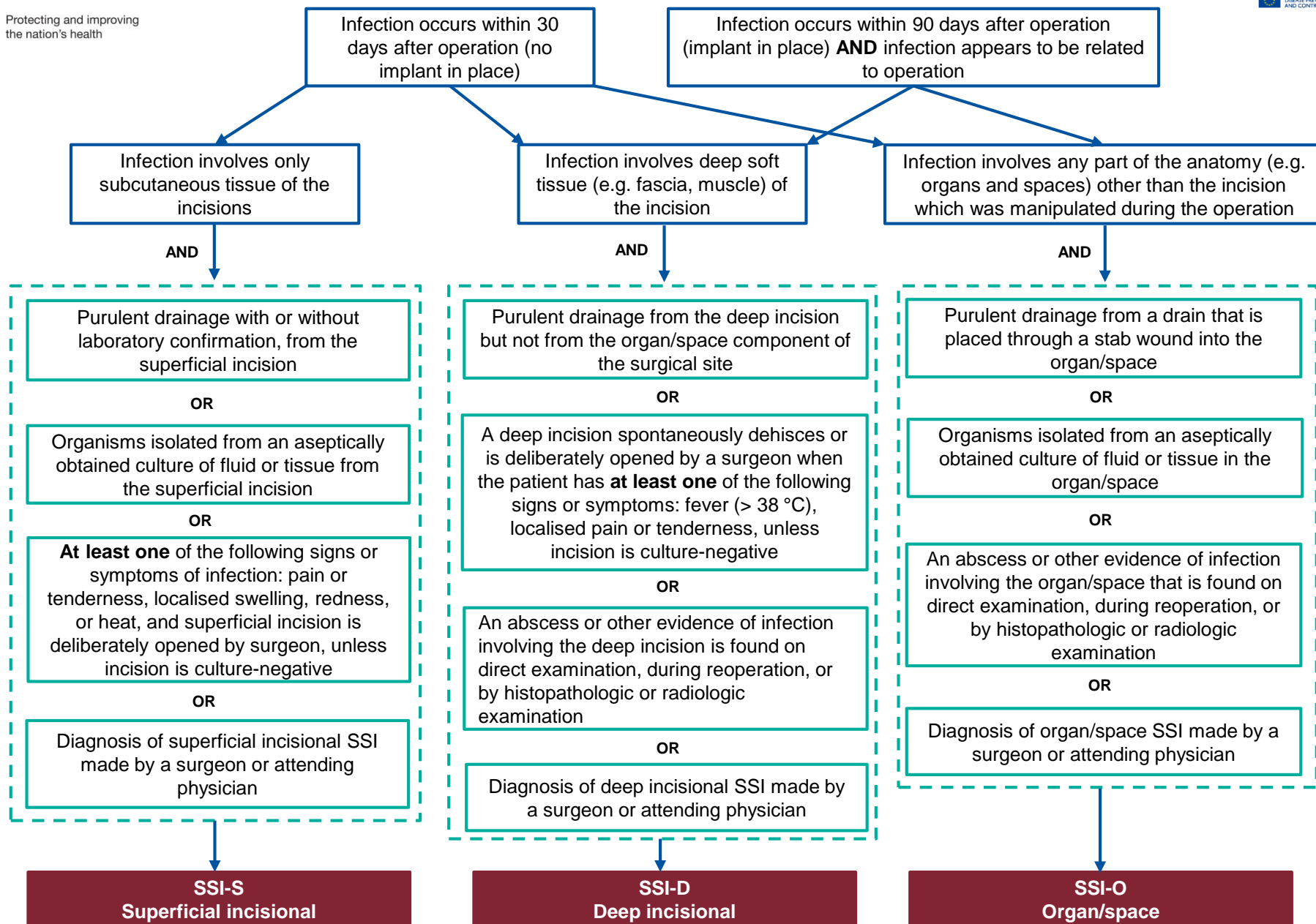
<sup>3</sup> Only for infections not present/active on admission (dd/mm/yyyy)

<sup>4</sup> C-CVC (central venous catheter), C-PVC (peripheral venous catheter), S-PUL (pulmonary infection), S-UTI (urinary tract infection), S-DIG (digestive tract infection), S-SSI (surgical site infection), S-SST (skin/soft tissue infection), S-OTH (other), UO (none of the above, BSI of unknown origin, clinically asserted), UNK (unknown)

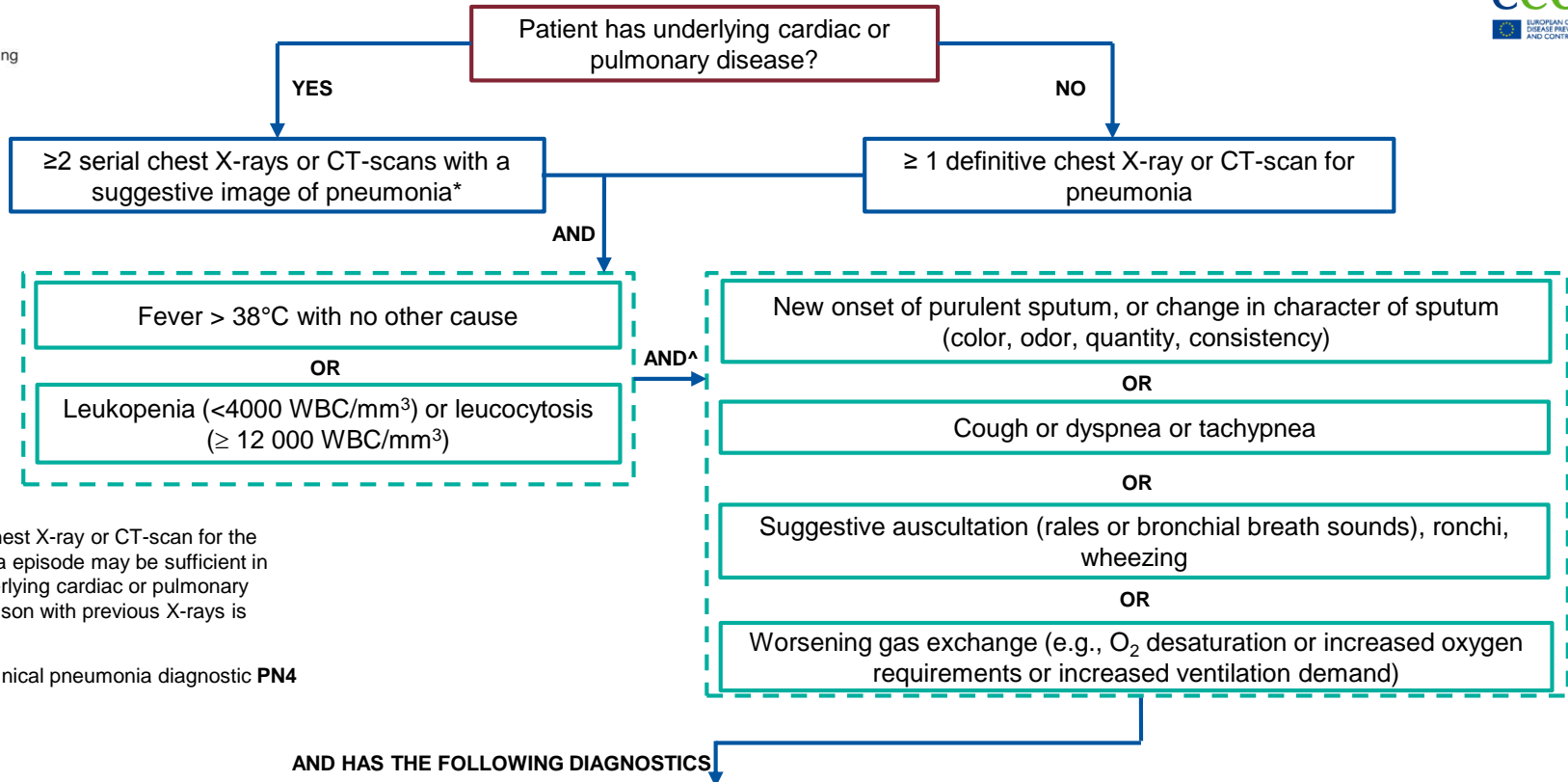
<sup>5</sup> AB: tested antibiotic(s); STAAUR: OXA (includes oxacillin or other marker for MRSA such as cefoxitin, cloxacillin, dicloxacillin, flucloxacillin or methicillin) and GLY; Enterococci: GLY; *Enterobacteriaceae*: C3G and CAR; PSEAER and ACIBAU: CAR; SIR: S=sensitive, I=intermediate, R=resistant, U=unknown; PDR: Pan-drug resistant: N=No, P=Possible, C=Confirmed, U=Unknown



# SSI: Surgical site infection



# PN: Pneumonia (includes VAP)

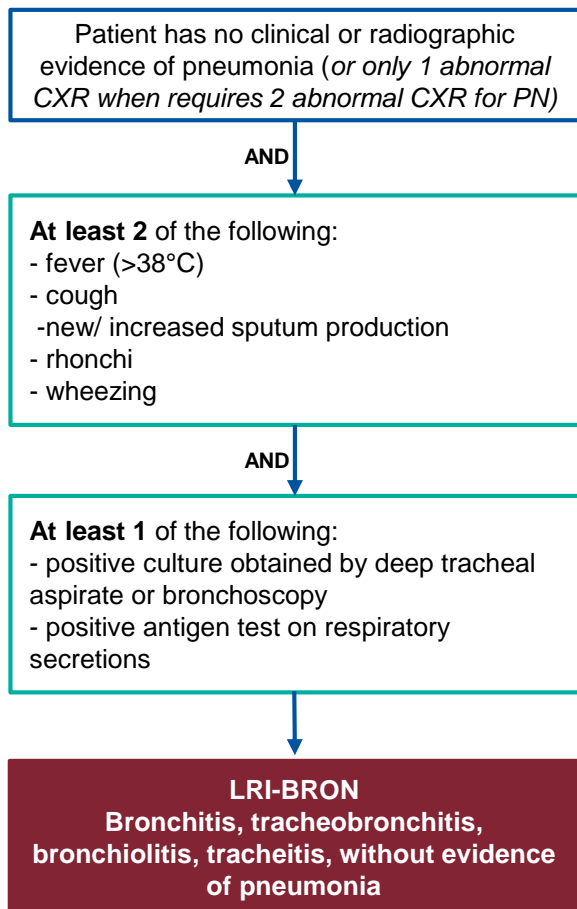


\* One definitive chest X-ray or CT-scan for the current pneumonia episode may be sufficient in patients with underlying cardiac or pulmonary disease if comparison with previous X-rays is possible

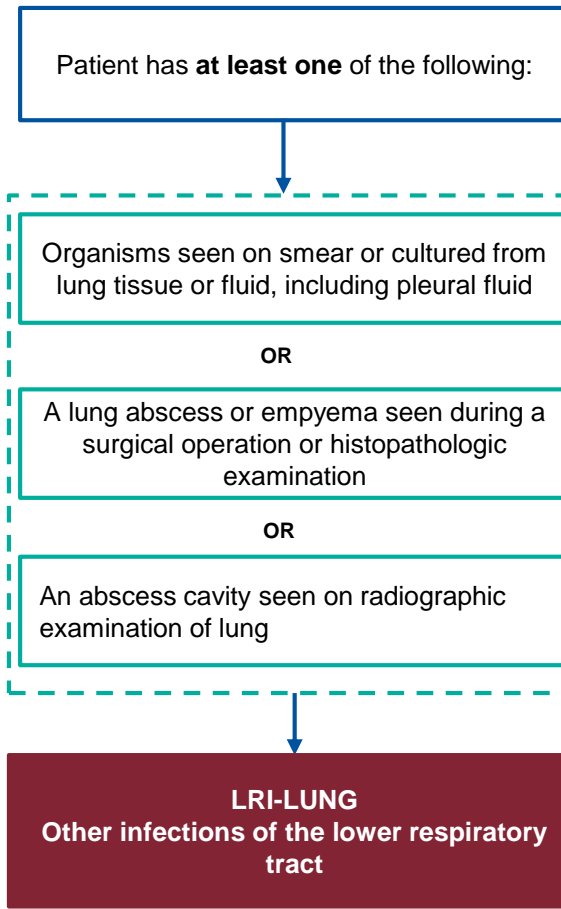
^ ≥ 2 required if clinical pneumonia diagnostic **PN4** and **PN5**

AND HAS THE FOLLOWING DIAGNOSTICS				
<p><b>Positive quantitative culture from minimally contaminated LRT specimen</b></p> <ul style="list-style-type: none"> <li>- Broncho-alveolar lavage (BAL) with a threshold of <math>&gt; 10^4</math> CFU/ml or <math>\geq 5\%</math> of BAL obtained cells contain intracellular bacteria on direct microscopic exam</li> <li>- Protected brush (PB Wimberley) with a threshold of <math>&gt;10^3</math> CFU/ml</li> <li>- Distal protected aspirate (DPA) with a threshold of <math>&gt; 10^3</math> CFU/ml</li> </ul>	<p><b>Quantitative culture from possibly contaminated LRT specimen (i.e. ETA)</b></p> <ul style="list-style-type: none"> <li>- Quantitative culture of LRT specimen (e.g. endotracheal aspirate) with a threshold of <math>10^6</math> CFU/ml</li> </ul>	<p><b>Alternative microbiology methods</b></p> <ul style="list-style-type: none"> <li>- Positive BC not related to other source</li> <li>- Positive growth in pleural fluid culture</li> <li>- Pleural/ pulmonary abscess with positive needle aspiration</li> <li>- Histologic pulmonary exam = pneumonia</li> <li>- Positive detection of viral antigen or antibody from respiratory secretions</li> <li>- Positive direct exam or positive culture from bronchial secretions or tissue</li> <li>- Seroconversion</li> <li>- Detection of antigens in urine</li> </ul>	<p><b>Positive sputum culture or non-quantitative LRT specimen culture</b></p>	<p><b>No positive microbiology</b></p>
<p><b>PN1</b></p>	<p><b>PN2</b></p>	<p><b>PN3</b></p>	<p><b>PN4</b></p>	<p><b>PN5</b></p>

## LRI: Lower respiratory tract infection, other than pneumonia



**Note:** Do not report chronic bronchitis in a patient with chronic lung disease as an infection unless there is evidence of an acute secondary infection, manifested by change in organism.



**Note:** Report lung abscess or empyema without pneumonia as **LRI-LUNG**.

# UTI: Urinary tract infection

Patient has a positive urine culture (MSU/  
CSU/ suprapubic etc.)  $\geq 10^5$  microorganisms  
per ml of urine and  $\leq 2$  species of  
microorganism

AND

Fever ( $>38^\circ\text{C}$ )

OR

Urgency

OR

Frequency

OR

Dysuria

OR

Suprapubic tenderness

UTI-A

Microbiologically confirmed symptomatic  
UTI

Patient has **at least two** of the following  
with no other recognised cause:

AND

Positive dipstick for leukocyte esterase and/or nitrites

OR

Pyuria urine specimen with  $\geq 10$  WBC/ml or  $\geq 3$  WBC/high-power field of  
unspun urine

OR

Organisms seen on Gram stain of unspun urine

OR

At least two urine cultures with repeated isolation of the same uropathogen  
(Gram-negative bacteria or *S. saprophyticus*) with  $\geq 10^2$  colonies/ml urine in  
nonvoided specimens

OR

$\leq 10^5$  colonies/ml of a single uropathogen (Gram-negative bacteria or *S.*  
*saprophyticus*) in a patient being treated with effective antimicrobial agent for a  
urinary infection

OR

Physician diagnosis of a urinary tract infection

OR

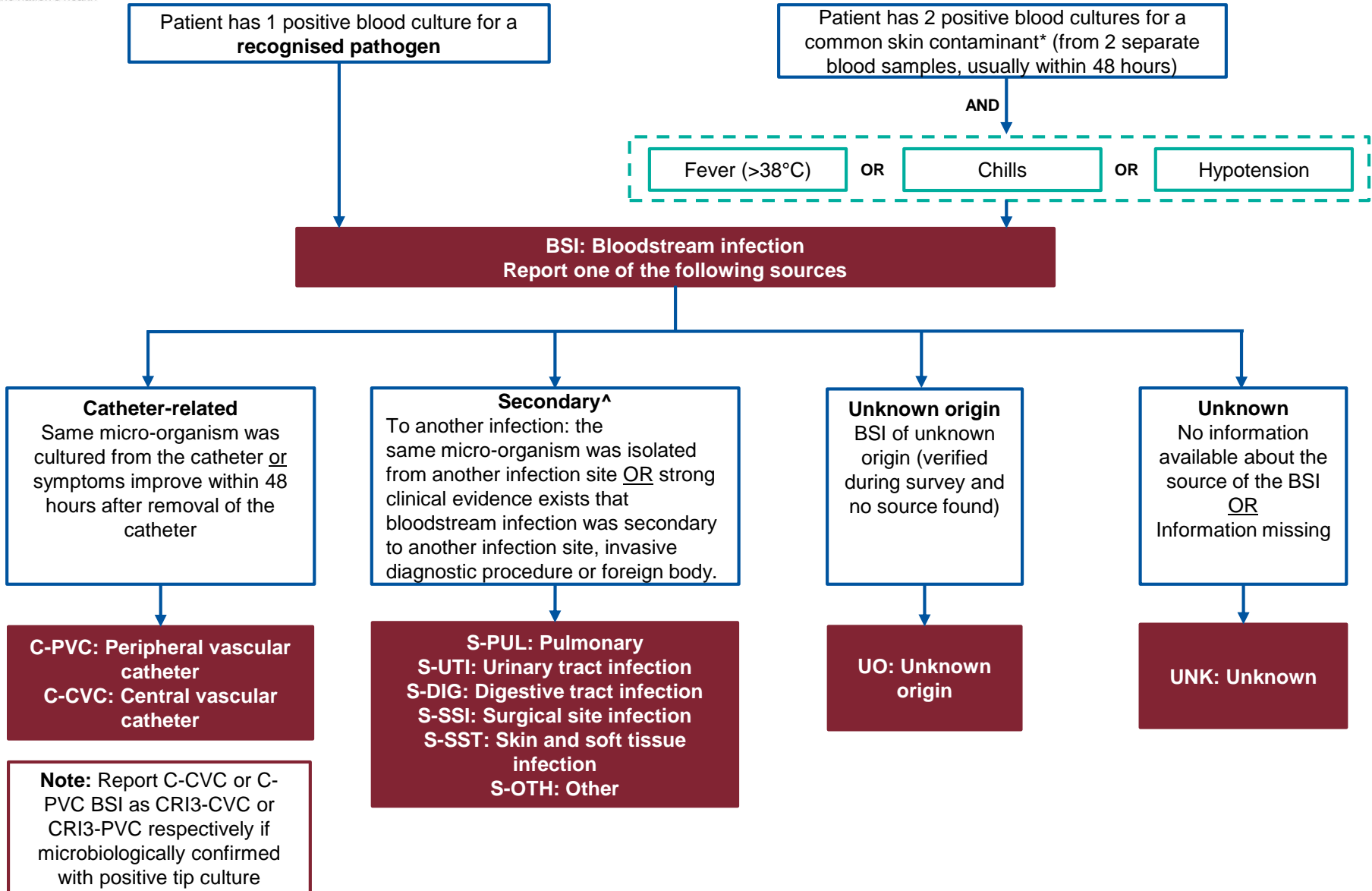
Physician institutes appropriate therapy for a urinary infection

UTI-B

Non-microbiologically confirmed symptomatic UTI

**Note:** Asymptomatic bacteriuria are not to be reported, but  
**bloodstream infections secondary to asymptomatic  
bacteriuria are reported** as BSI with source (origin) S-UTI.

# BSI: Bloodstream infection

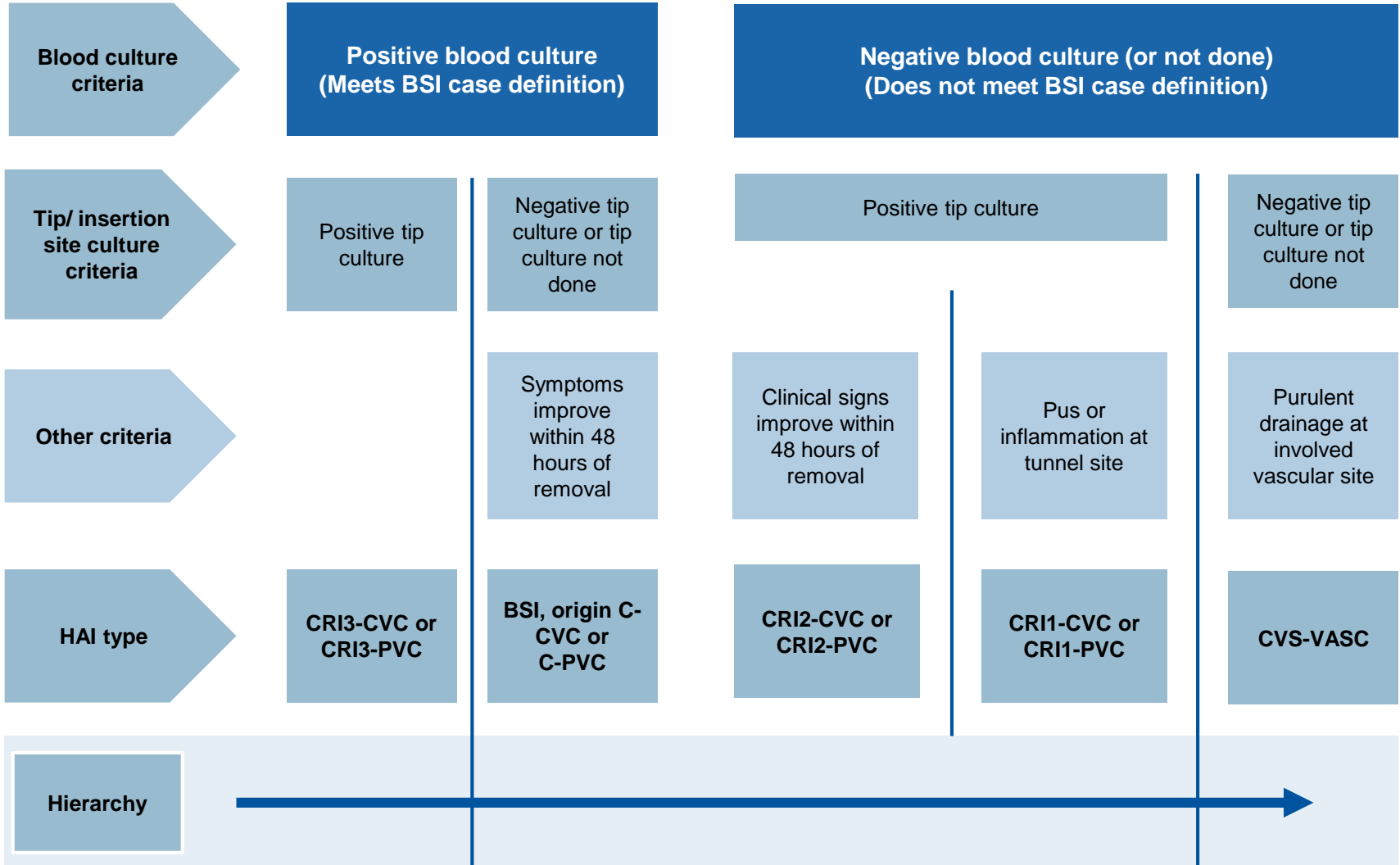


\* Skin contaminants = coagulase-negative staphylococci, *Micrococcus* sp., *Propionibacterium acnes*, *Bacillus* sp., *Corynebacterium* sp.

<sup>^</sup> Does not need to meet case definition for this to be noted. If the primary infection is an active HAI and meets a case definition, report both primary HAI and secondary BSI.

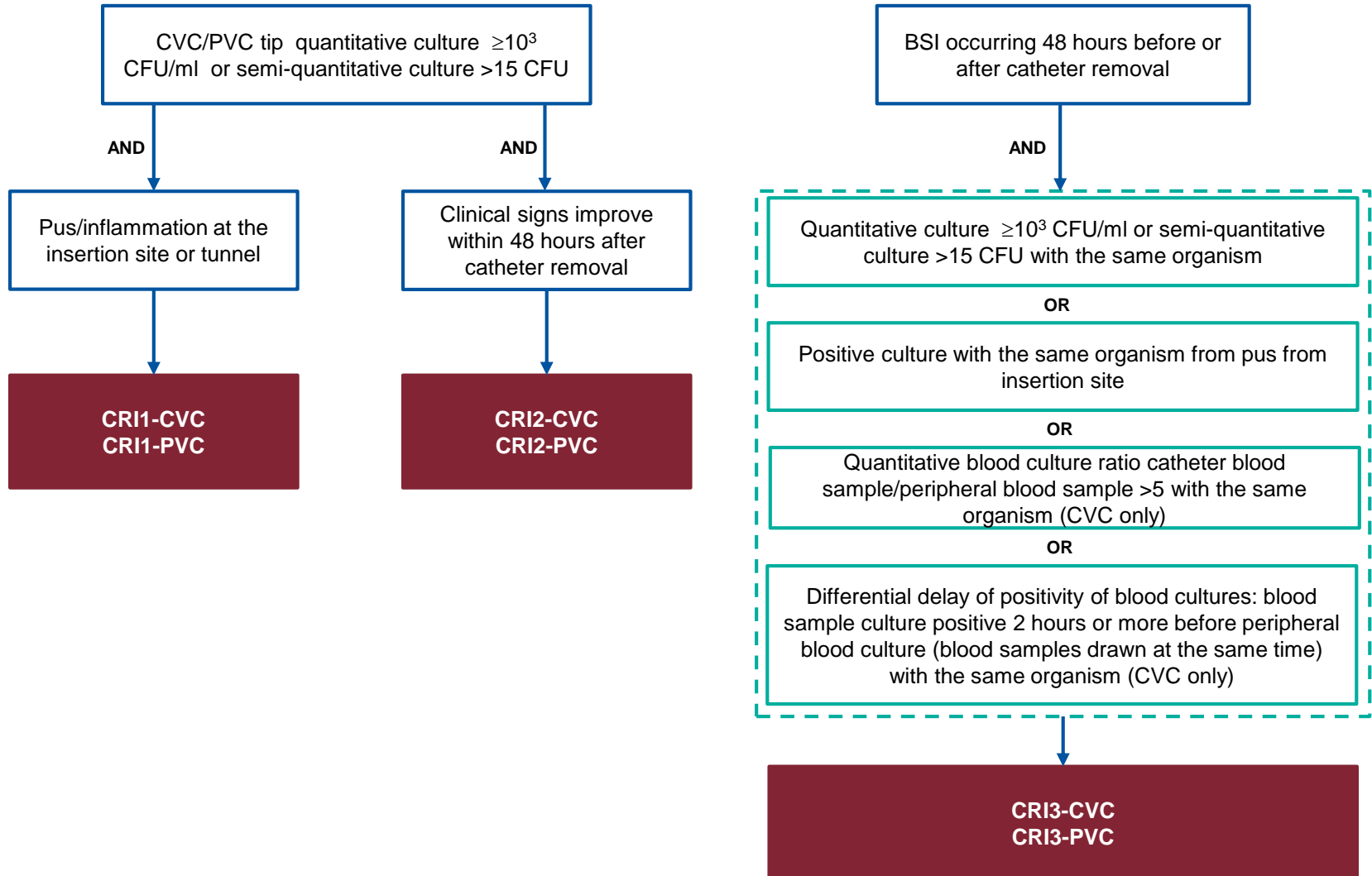
# CRI: Catheter-related infection (CVC or PVC infections)

Protecting and improving  
the nation's health



# CRI: Catheter-related infection

## Central vascular catheter (CVC) or peripheral vascular catheter (PVC) infections



# CVS: Cardiovascular system infection

Organisms cultured from arteries or veins removed during a surgical operation  
**AND**  
Blood culture not done or no organisms cultured from blood

Evidence of arterial or venous infection seen during a surgical operation or histopathologic examination

≥1 of the following signs or symptoms with no other recognized cause: fever (>38°C), pain, erythema, or heat at involved vascular site  
**AND**  
More than 15 colonies cultured from intravascular cannula tip using semiquantitative culture method  
**AND**  
Blood culture not done or no organisms cultured from blood

Purulent drainage at involved vascular site  
**AND**  
Blood culture not done or no organisms cultured from blood

Organisms cultured from valve or vegetation

≥ 2 of the following signs or symptoms with no other recognized cause: fever (>38°C), new or changing murmur, embolic phenomena, skin manifestations (ie, petechiae, splinter hemorrhages, painful subcutaneous nodules), congestive heart failure, or cardiac conduction abnormality

Organisms cultured from ≥ 2 blood cultures

Organisms seen on Gram's stain of valve when culture is negative or not done

Valvular vegetation seen during a surgical operation or autopsy

Positive antigen test on blood or urine (eg, *H. influenzae*, *S. pneumoniae*, *N. meningitidis*, or Group B *Streptococcus*)

Evidence of new vegetation seen on echocardiogram **AND** if diagnosis is made antemortem, physician institutes appropriate antimicrobial therapy.

Organisms cultured from pericardial tissue or fluid obtained by needle aspiration or during a surgical operation

≥ 2 of the following signs or symptoms with no other recognized cause: fever (>38°C), chest pain, paradoxical pulse, or increased heart size

Abnormal ECG/EKG consistent with myocarditis or pericarditis

Positive antigen test on blood (eg, *H. influenzae*, *S. pneumoniae*)

Evidence of myocarditis or pericarditis on histologic examination of heart tissue

4-fold rise in type-specific antibody with or without isolation of virus from pharynx or feces

Pericardial effusion identified by echocardiogram, CT scan, MRI, or angiography.

Organisms cultured from mediastinal tissue or fluid obtained during a surgical operation or needle aspiration

Evidence of mediastinitis seen during a surgical operation or histopathologic examination

≥ 1 of the following signs or symptoms with no other recognized cause: fever (>38°C), chest pain, or sternal instability

Purulent discharge from mediastinal area

Organisms cultured from blood or discharge from mediastinal area

Mediastinal widening on x-ray

CVS-VASC

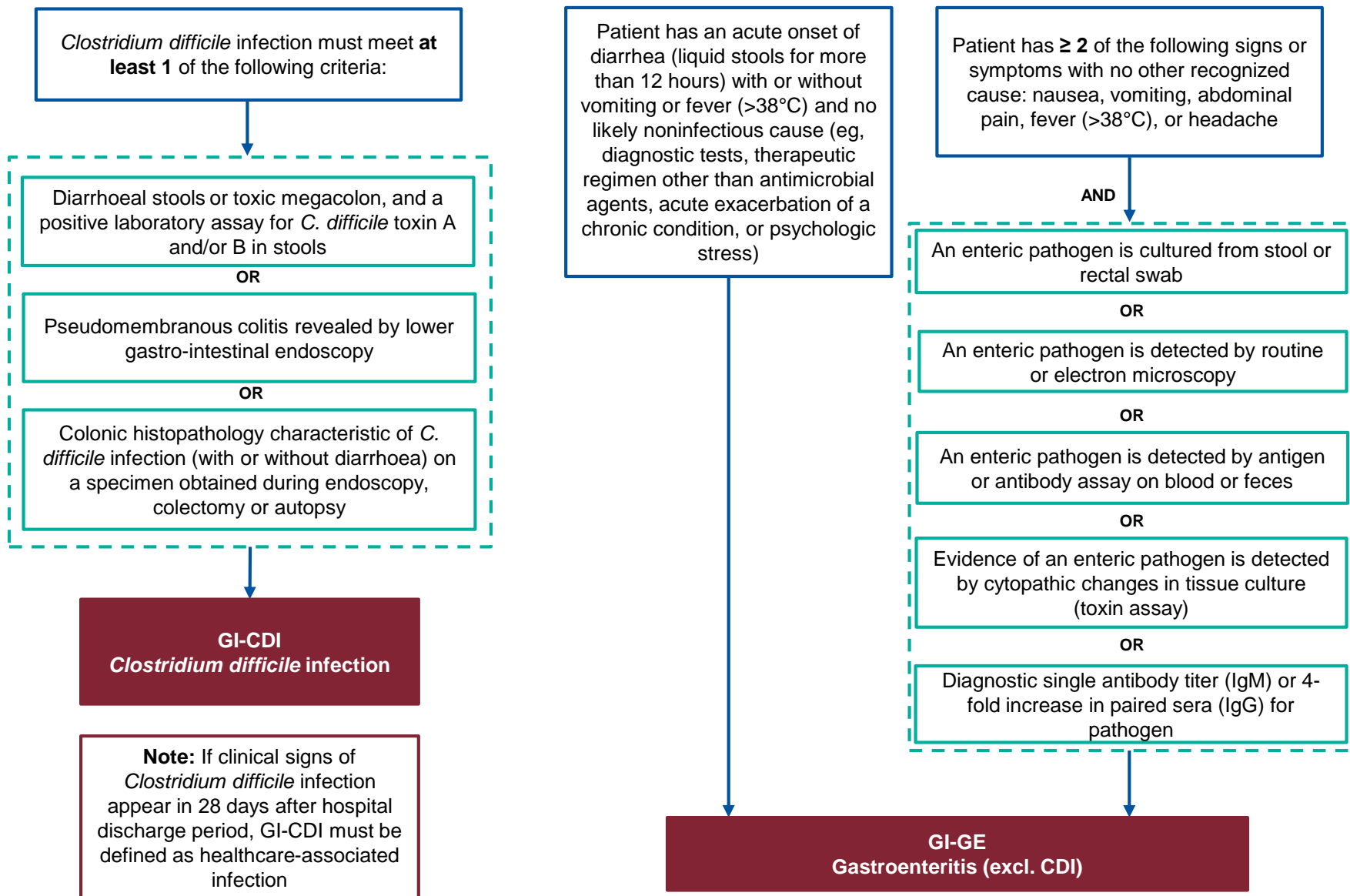
CVS-ENDO

CVS-CARD

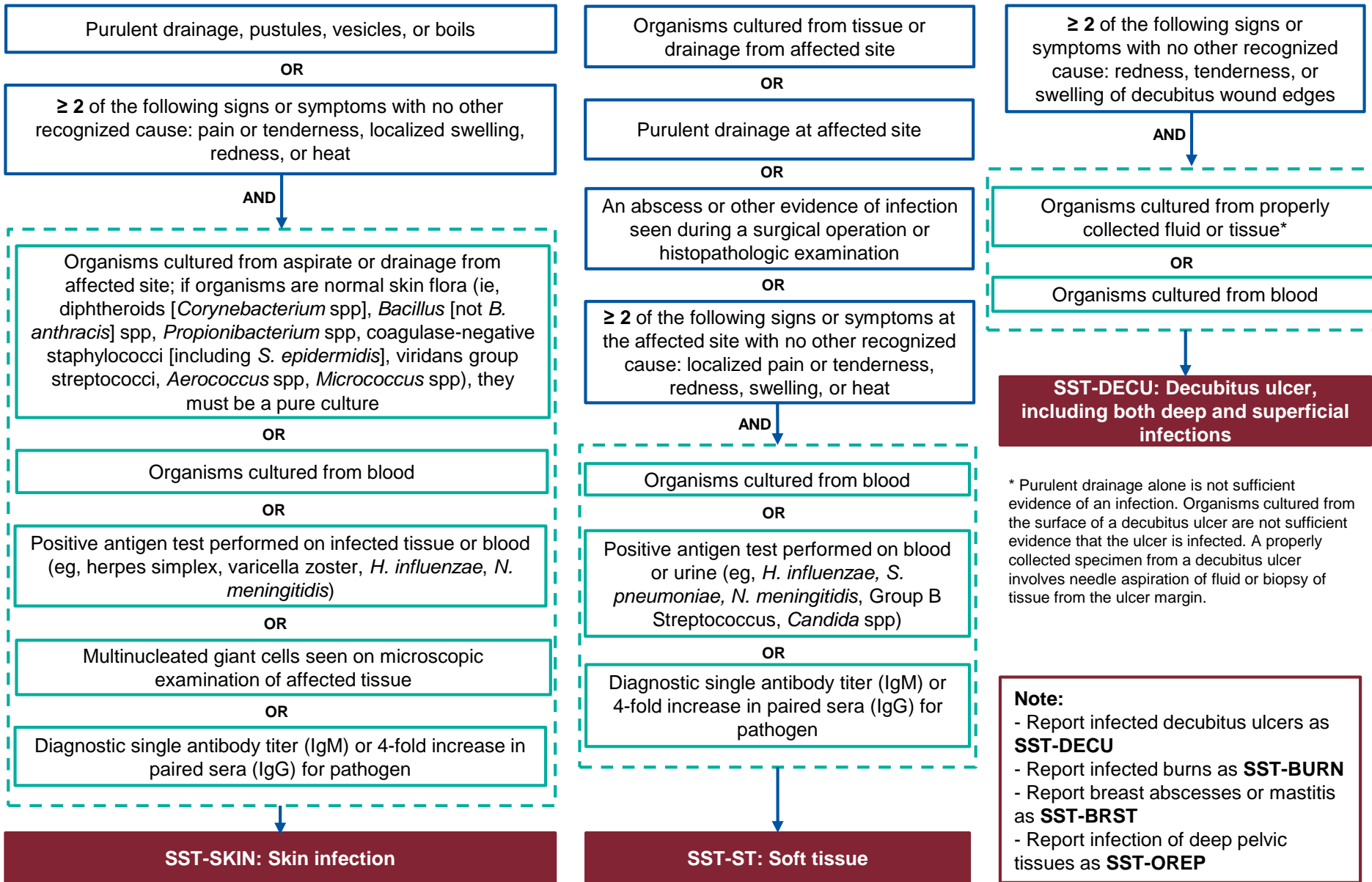
CVS-MED



# GI: Gastrointestinal system infection (also GI-GIT, GI-HEP, GI-HAB)



# SST: Skin and soft tissue infection (also SST-BURN & SST-BRST)



## SYS: Systemic infection

Disseminated infection is infection involving multiple organs or systems, without an apparent single site of infection, usually of viral origin, and with signs or symptoms with no other recognized cause and compatible with infectious involvement of multiple organs or systems

**SYS-DI**  
Disseminated infection

**Note:**

- Use SYS-DI for viral infections involving multiple organ systems (eg, measles, mumps, rubella, varicella, erythema infectiosum). These infections often can be identified by clinical criteria alone
- Report viral exanthems or rash illness as SYS-DI
- **Do not** use SYS-DI for healthcare-associated infections with multiple metastatic sites, such as with bacterial endocarditis; only the primary site of these infections should be reported
- **Do not** report fever of unknown origin (FUO) as SYS-DI

Patient has  $\geq 1$  of the following:

- Clinical signs or symptoms with no other recognized cause
- Fever ( $38^{\circ}\text{C}$ )
- Hypotension (systolic pressure  $<90$  mm),
- Oliguria ( $20\text{ cm}^3(\text{ml})/\text{hr}$ )

AND

Blood culture not done or no organisms or antigen detected in blood

AND

No apparent infection at another site

AND

Physician institutes treatment for sepsis

**SYS-CSEP**  
Treated unidentified severe infection