# 2021 NHSN Surgical Site Infection (SSI) Checklist

#### Surgical Site Infection (SSI) Documentation Review Checklist

### **Definition of an NHSN Operative Procedure**

An NHSN Operative Procedure is a procedure

• that is included in the ICD-10-PCS and/or CPT NHSN operative procedure code mapping

#### $\Delta nd$

 takes place during an operation where at least one incision (including laparoscopic approach and cranial Burr holes) is made through the skin or mucous membrane, or reoperation via an incision that was left open during a prior operative procedure

#### And

• takes place in an operating room (OR), defined as a patient care area that met the Facilities Guidelines Institute's (FGI) or American Institute of Architects' (AIA) criteria for an operating room when it was constructed or renovated. This may include an operating room, C-section room, interventional radiology room, or a cardiac catheterization lab.

**Exclusions:** Otherwise eligible procedures that are assigned an ASA score of 6 are not eligible for NHSN SSI surveillance.

PROCEDURE DETA	AILS:			
Date of Procedure CD-10-PCS/CPT C	e: Operative Procedure Code(s	s) Assigned:		
NHSN Operative F	Procedure Category(ies) (CC	OLO, HYST, etc.):		
'CLEVENT DETAIL	c.			
SSI EVENT DETAIL Criterion	.S: Criterion Met	Date of Event	Procedure of Attribution	PATOS
Criterion		Date of Event	Procedure of Attribution	PATOS
Criterion SIP		Date of Event	Procedure of Attribution	PATOS
Criterion SIP	Criterion Met	Date of Event	Procedure of Attribution	PATOS
Criterion SIP SIS	Criterion Met	Date of Event	Procedure of Attribution	PATOS

Please refer to Chapter 9 Surgical Site Infection (SSI) Event of the Patient Safety Manual for additional information.



Element   Element   Element   Bate   Date   Met    Must meet the following criteria:   Date of event occurs within 30 days after any NHSN operative procedure (where day 1 = the procedure date)   Parcel    AND   Patient has at least one of the following:   Patient has at least one of the following or subcutaneous tissue by a culture or non-culture based microbiologic testing method, which is performed for purposes of clinical diagnosis or treatment (for example, not Active Surveillance Culture/Testing (ASC/AST)).   Patient has at least one of the following signs or symptoms:   Localized pain or tenderness   Localized pain or tenderness   Localized swelling   Erythema   Heat    d. Diagnosis of a superficial incisional SSI by a physician* or physician designee.   Company the company testing incisional solutions or subcutaneous tissue    Localized swelling   Erythema   Heat   Company testing incisional SSI by a physician* or physician designee.   Company testing incisional SSI by a physician* or physician designee.   Company testing incisional SSI by a physician* or physician designee.   Company testing incisional SSI by a physician* or physician designee.   Company testing incisional SSI by a physician* or physician designee.   Company testing testing incisional SSI by a physician* or physician designee.   Company testing testing incisional SSI by a physician* or physician designee.   Company testing t	Surgical Site Infection (SSI)				
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<ul> <li>Localized pain or tenderness</li> <li>Localized swelling</li> <li>Erythema</li> <li>Heat</li> </ul>	AND				
d. Diagnosis of a superficial incisional SSI by a physician* or physician designee.	<ul> <li>Localized pain or tenderness</li> <li>Localized swelling</li> <li>Erythema</li> </ul>				
*The term physician for the purpose of application of the NHSN SSI criteria may be interpreted to mean a surgeon,			eon		

\*The term physician for the purpose of application of the NHSN SSI criteria may be interpreted to mean a surgeon, infectious disease physician, emergency physician, other physician on the case, or physician's designee (nurse practitioner or physician's assistant).

#### **Comments**:

There are two specific types of superficial incisional SSIs:

- 1. Superficial Incisional Primary (SIP) a superficial incisional SSI that is identified in the primary incision in a patient that has had an operation with one or more incisions (for example, C-section incision or chest incision for CBGB)
- 2. Superficial Incisional Secondary (SIS) a superficial incisional SSI that is identified in the secondary incision in a patient that has had an operation with more than one incision (for example, donor site incision for CBGB)

#### **Reporting Instructions for Superficial SSI:**

#### The following do not qualify as criteria for meeting the NHSN definition of superficial SSI:

- Diagnosis/treatment of cellulitis (redness/warmth/swelling), by itself, does not meet criterion "d" for superficial incisional SSI. Conversely, an incision that is draining or that has organisms identified by culture or non-culture based testing is not considered a cellulitis.
- A stitch abscess alone (minimal inflammation and discharge confined to the points of suture penetration).
- For an NHSN operative procedure, a laparoscopic trocar site is considered a surgical incision and not a stab wound.
- A localized stab wound or pin site infection is not considered an SSI; depending on the depth, these infections might be considered either a skin (SKIN) or soft tissue (ST) infection.



Comments/Notes:	



Surgical Site Infection (SSI)				
Deep incisional SSI (DIP, DIS)				
Element	Element Met	Date		
Must meet the following criteria:				
Date of event occurs within 30 or 90 days after the NHSN operative procedure (where day 1 =				
the procedure date) according to the list in <u>Table 2</u> (see below)				
AND	T			
Involves deep soft tissues of the incision (for example, fascial and muscle layers)				
AND Patient has at least <u>one</u> of the following:	T <b>—</b>			
a. Purulent drainage from the deep incision.				
b. A deep incision that spontaneously dehisces, or is deliberately opened or aspirated by a				
surgeon, physician* or physician designee				
AND				
Organism(s) identified from the deep soft tissues of the incision by a culture or non-				
culture based microbiologic testing method which is performed for purposes of clinical diagnosis or treatment (for example, not Active Surveillance Culture/Testing (ASC/AST))				
or culture or non-culture based microbiologic testing method is not performed. A culture				
or non-culture base test from the deep soft tissues of the incision that has a negative				
finding does not meet this criterion.				
AND				
Patient has <u>at least one</u> of the following signs or symptoms:				
• Fever (>38°C)				
Localized pain or tenderness				
c. An abscess or other evidence of infection involving the deep incision that is detected on gross anatomical or histopathologic exam, or imaging test.				
*The term physician for the purpose of application of the NHSN SSI criteria may be interpreted to n infectious disease physician, emergency physician, other physician on the case, or physician's desig practitioner or physician's assistant).	_	eon,		
Comments: There are two specific types of door incicional SSIs:				
There are two specific types of deep incisional SSIs:  1. Deep Incisional Primary (DIP) – a deep incisional SSI that is identified in a primary incision in	n a nationt t	hat has		
had an operation with one or more incisions (for example, C-section incision or chest incision	•			
2. Deep Incisional Secondary (DIS) – a deep incisional SSI that is identified in the secondary inc		-		
has had an operation with more than one incision (for example, donor site incision for CBG	В)			
Comments/Notes:				



Surgical Site Infection (SSI)				
Organ/Space SSI (O/S)				
Element	Element Met	Date		
Must meet the following criteria:				
Date of event occurs within 30 or 90 days after the NHSN operative procedure (where day 1 = the procedure date) according to the list in <u>Table 2</u> (see below)				
AND				
Involves any part of the body deeper than the fascial/muscle layers that is opened or manipulated during the operative procedure				
AND Patient has at least <u>one</u> of the following:				
<ul> <li>Purulent drainage from a drain that is placed into the organ/space (for example, closed suction drainage system, open drain, T-tube drain, CT-guided drainage).</li> </ul>				
b. Organism(s) identified from fluid or tissue in the organ/space by a culture or non-culture based microbiologic testing method, which is performed for purposes of clinical diagnosis or treatment (for example, not Active Surveillance Culture/Testing (ASC/AST)).				
<ul> <li>An abscess or other evidence of infection involving the organ/space that is detected on gross anatomical or histopathologic exam, or imaging test evidence suggestive of infection.</li> </ul>				
AND				
Meets at least <u>one</u> criterion for a specific organ/space infection site listed in <u>Table 3</u> (see below). These criteria are found in the Surveillance Definitions for Specific Types of Infections ( <u>Chapter 17</u> ).				
Comments/Notes:				



Table 2. Surveillance Periods for SSI Following Selected NHSN Operative Procedure Categories. Day 1 = the date of the procedure.

30-day Surveillance				
Category	Operative Procedure	Category	Operative Procedure	
AAA	Abdominal aortic aneurysm repair	LAM	Laminectomy	
AMP	Limb amputation	LTP	Liver transplant	
APPY	Appendix surgery	NECK	Neck surgery	
AVSD	Shunt for dialysis	NEPH	Kidney surgery	
BILI	Bile duct, liver or pancreatic surgery	OVRY	Ovarian surgery	
CEA	Carotid endarterectomy	PRST	Prostate surgery	
CHOL	Gallbladder surgery	REC	Rectal surgery	
COLO	Colon surgery	SB	Small bowel surgery	
CSEC	Cesarean section	SPLE	Spleen surgery	
GAST	Gastric surgery	THOR	Thoracic surgery	
HTP	Heart transplant	THYR	Thyroid and/or parathyroid	
			surgery	
HYST	Abdominal hysterectomy	VHYS	Vaginal hysterectomy	
KTP	Kidney transplant	XLAP	Exploratory Laparotomy	
	90-day Sui	rveillance		
Category	Operative Procedure			
BRST	Breast surgery			
CARD	Cardiac surgery			
CBGB	Coronary artery bypass graft with both chest and donor site incisions			
CBGC	Coronary artery bypass graft with chest incision only			
CRAN	Craniotomy			
FUSN	Spinal fusion			
FX	Open reduction of fracture			
HER	Herniorrhaphy			
HPRO	Hip prosthesis			
KPRO	Knee prosthesis			
PACE	Pacemaker surgery			
PVBY	Peripheral vascular bypass surgery			
VSHN	Ventricular shunt			

## Notes:

- Superficial incisional SSIs are only followed for a 30-day period for all procedure types.
- Secondary incisional SSIs are only followed for a 30-day period regardless of the surveillance period for the primary site.



Table 3. Specific Sites of an Organ/Space SSI

Category	Specific Site	Category	Specific Site
BONE	Osteomyelitis	MED	Mediastinitis
BRST	Breast abscess or mastitis	MEN	Meningitis or ventriculitis
CARD	Myocarditis or pericarditis	ORAL	Oral cavity infection (mouth, tongue, or gums)
DISC	Disc space infection	OREP	Deep pelvic tissue infection or other infection of the male or female reproductive tract
EAR	Ear, mastoid infection	PJI	Periprosthetic joint infection
EMET	Endometritis	SA	Spinal abscess/infection
ENDO	Endocarditis	SINU	Sinusitis
GIT	Gastrointestinal (GI) tract infection	UR	Upper respiratory tract, pharyngitis, laryngitis, epiglottitis
IAB	Intraabdominal infection, not specified elsewhere	USI	Urinary System Infection
IC	Intracranial infection	VASC	Arterial or venous infection
JNT	Joint or bursa infection	VCUF	Vaginal cuff infection
LUNG	Other infection of the lower respiratory tract		

#### Notes:

- Criteria for these sites can be found in Chapter 17 (<u>Surveillance Definitions for Specific Types of Infections</u>).
- The Chapter 9 (<u>Surgical Site Infection [SSI] Event</u>) Appendix contains a list of the specific event types available for SSI attribution by NHSN procedure category.

