

Importing Patient Safety Procedure Data

NOTE: The procedure import file specifications contained in this document will be implemented in NHSN version 6.6, planned for January 2012. Facilities will not be able to import procedure data according to these specifications prior to that time. For current (i.e., NHSN v6.5) procedure import file specifications, please visit: http://www.cdc.gov/nhsn/PDFs/ImportingProcedureData_current.pdf

NHSN will allow importation of procedure data in an ASCII comma delimited text file format. You can generate the import files from different external sources, such as databases or hospital information systems. The default import option allows the importation of procedures where the procedure date occurs in a month for which a Monthly Reporting Plan exists and the Plan specifies the procedure code in the import file record. If you wish to import records for procedures not in the Plan, you must specify which procedures to include. Custom procedures can also be imported if they are first created on the custom options page.

NOTES:

1. Data in the import file must be in the same order as described in the table below, not as they appear on the Denominator for Procedure form.
2. The comma delimited text file format defined in the below table requires commas between fields even if no data values exist (e.g., optional or empty fields).
3. If a bilateral procedure is performed, two procedure records are required. Refer to the NHSN Procedure Codes table for a list of procedures that can be bilateral.
4. There should be a unique duration for each bilateral procedure. If only one total time is available for both procedures, estimate the duration for each or split the time evenly between them.
5. For procedures, if Outpatient = Y, then the procedure must be one of those listed in the NHSN Procedure Codes table as an Outpatient Procedure.
6. If you are importing Surgeon Code, all surgeon codes must exist in NHSN prior to importing.
7. If the optional Procedure Comment field has text that contains commas you must place a double quote at the beginning and end of the string of text (e.g., with allograft, dowels, plates).
8. When creating comma delimited files, be careful to exclude non-printable characters as they may actually cause the data to be improperly imported and result in errors.
9. You must delete the header line from the CSV file prior to importing the data.
10. Fields marked as "Optional for Import" allow an incomplete record to be imported. Note that these fields are considered required for completion of an in-plan procedure record and can be completed through manual edit of each record in the NHSN reporting application.



NHSN Procedure Import File Format**:

Field	Requirement	Values	Format†
Patient ID	Required		Character length 15
Gender	Required	M – Male F – Female O – Other	Character length 1
Date of birth	Required		mm/dd/yyyy
NHSN procedure code	Required	See NHSN procedure codes	Character length 5
Date of procedure	Required		mm/dd/yyyy
Outpatient	Required	Y – Yes N – No Note: Some procedures may only be inpatient. See NHSN procedure codes below.	Character length 1
Duration hours	Required		Numeric length 2
Duration minutes	Required		Numeric length 2
Wound class	Required	C – Clean CC – Clean Contaminated CO – Contaminated D – Dirty/Infected U – Unknown	Character length 2
ASA score	Required if Outpatient = N	1 - Normally healthy patient 2 - Patient with mild systemic disease 3 - Patient with severe systemic disease, not incapacitating 4 - Patient with incapacitating systemic disease, constant threat to life 5 - Moribund patient < 24 hr life expectancy	Character length 1
Endoscope	Required	Y – Yes N – No	Character length 1
Surgeon code	Optional		Character length 20
Emergency	Required	Y – Yes N – No	Character length 1
EMPTY (formerly Multiple procedure)	Required to be left blank	<i>This empty column is considered a placeholder and must be included in the import file. Any data contained in this placeholder will be ignored upon import.</i>	



General anesthesia	Required	Y – Yes N – No	Character length 1
Trauma	Required	Y – Yes N – No	Character length 1
Spinal level	Required if procedure code is FUSN or RFUSN	A – Atlas-axis AC – Atlas-axis/Cervical C – Cervical CD – Cervical/Dorsal/Dorsolumbar D – Dorsal/Dorsolumbar L – Lumbar/Lumbosacral N – Not specified	Character length 2
Type of HPRO	Required if procedure code is HPRO	TP – Total primary PP – Partial primary TR – Total revision PR – Partial revision	Character length 2
Type of KPRO	Required if KPRO	T – Primary (total) R – Revision (total or partial)	Character length 1
Height* in feet	Optional for import; used only when procedure code is CSEC		Numeric length 2
Height* in inches	Optional for import; used only when procedure code is CSEC		Numeric length 2
Height* in meters	Optional for import; used only when procedure code is CSEC		Numeric decimal (6,3) 999.999
Weight* in pounds	Optional for import; used only when procedure code is CSEC		Numeric decimal (5,2) 999.99
Weight* in kilograms	Optional for import; used only when procedure code is CSEC		Numeric decimal (5,2) 999.99
Duration of labor	Optional for import; used only when procedure code		Numeric length 2



	is CSEC		
EMPTY (formerly Estimated blood loss)	Required to be left blank	<i>This empty column is considered a placeholder and <u>must</u> be included in the import file. Any data contained in this placeholder will be ignored upon import.</i>	
Diabetes mellitus	Required if procedure code is FUSN or RFUSN	Y – Yes N – No	Character length 1
Type of approach	Required if procedure code is FUSN or RFUSN	A – Anterior P – Posterior B – Anterior or Posterior L – Lateral transverse N – Not specified	Character length 1
Comments	Optional		Character length 1000
Custom fields 1-14	Optional		Format and order according to custom field set up and sort order, per procedure code: Alphanumeric field length = 15 character Numeric field length decimal(12,3) 999999999.999 Date field = mm/dd/yyyy
Implant	Required	Y – Yes N – No	Character length 1
EMPTY (formerly Non- autologous transplant)	Required to be left blank	<i>This empty column is considered a placeholder and <u>must</u> be included in the import file. Any data contained in this placeholder will be ignored upon import.</i>	
ICD-9-CM	Optional	ICD-9-CM code must be a valid code as listed in the NHSN Operative Procedure Category list.	Character length 5 ##.##
Medicare beneficiary number	Optional		Character length 15
Custom fields 15-50	Optional		Format and order according to custom



			field set up and sort order, per procedure code: Alphanumeric field length = 15 character Numeric field length decimal(12,3) 999999999.999 Date field = mm/dd/yyyy
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* Values for weight and height can be either in pounds and feet/inches or in kilograms and meters.

**For further clarification of each field, please refer to Chapter 9 (Surgical Site Infection Event) and Chapter 13 (Tables of Instructions) of the NHSN Manual: Patient Safety Component Protocol, available at http://www.cdc.gov/nhsn/TOC_PSCManual.html.

† The character length for non-date fields represents the maximum number of characters allowed, provided the appropriate values are imported according to the NHSN protocols. Values with a shorter character length may be allowed (e.g., the patient ID can be less than 15 characters).



NHSN Procedure Codes

Code	Operative Procedure	Description	Multiple	Inpatient Procedure	Outpatient Procedure
AAA	Abdominal aortic aneurysm repair	Resection of abdominal aorta with anastomosis or replacement		In	
AMP	Limb amputation	Total or partial amputation or disarticulation of the upper or lower limbs, including digits	4	In	Out
APPY	Appendix surgery	Operation of appendix (not incidental to another procedure)		In	Out
AVSD	Shunt for dialysis	Arteriovenostomy for renal dialysis		In	Out
BILI	Bile duct, liver or pancreatic surgery	Excision of bile ducts or operative procedures on the biliary tract, liver or pancreas (does not include operations only on gallbladder)		In	Out
BRST	Breast surgery	Excision of lesion or tissue of breast including radical, modified, or quadrant resection, lumpectomy, incisional biopsy, or mammoplasty.	2	In	Out
CARD	Cardiac surgery	Open chest procedures on the valves or septum of heart; does not include coronary artery bypass graft, surgery on vessels, heart transplantation, or pacemaker implantation		In	
CEA	Carotid endarterectomy	Carotid endarterectomy	2	In	Out
CBGB	Coronary artery bypass graft with both chest and donor site incisions	Chest procedure to perform direct revascularization of the heart; includes obtaining suitable vein from donor site for grafting.		In	



CBGC	Coronary artery bypass graft with chest incision only	Chest procedure to perform direct vascularization of the heart using, for example the internal mammary (thoracic) artery		In	
CHOL	Gallbladder surgery	Cholecystectomy and cholecystotomy		In	Out
COLO	Colon surgery	Incision, resection, or anastomosis of the large intestine; includes large-to-small and small-to-large bowel anastomosis; does not include rectal operations		In	Out
CRAN	Craniotomy	Incision through the skull to excise, repair, or explore the brain; does not include taps or punctures		In	
CSEC	Cesarean section	Obstetrical delivery by Cesarean section		In	Out
FUSN	Spinal fusion	Immobilization of spinal column	4	In	Out
FX	Open reduction of fracture	Open reduction of fracture or dislocation of long bones that requires internal or external fixation; does not include placement of joint prosthesis	4	In	Out
GAST	Gastric surgery	Incision or excision of stomach; includes subtotal or total gastrectomy; does not include vagotomy and fundoplication		In	Out
HER	Herniorrhaphy	Repair of inguinal, femoral, umbilical, or anterior abdominal wall hernia; does not include repair of diaphragmatic or hiatal hernia or hernias at other body sites.	5	In	Out
HPRO	Hip prosthesis	Arthroplasty of hip	2	In	Out
HTP	Heart transplant	Transplantation of heart		In	
HYST	Abdominal hysterectomy	Removal of uterus through an abdominal incision		In	Out
KPRO	Knee prosthesis	Arthroplasty of knee	2	In	Out
KTP	Kidney transplant	Transplantation of kidney		In	

LAM	Laminectomy	Exploration or decompression of spinal cord through excision or incision into vertebral structures		In	Out
LTP	Liver transplant	Transplantation of liver		In	
NECK	Neck surgery	Major excision or incision of the larynx and radical neck dissection; does not include thyroid and parathyroid operations.		In	Out
NEPH	Kidney surgery	Resection or manipulation of the kidney with or without removal of related structures	2	In	Out
OVRY	Ovarian surgery	Operations on ovary and related structures	2	In	Out
PACE	Pacemaker surgery	Insertion, manipulation or replacement of pacemaker		In	Out
PRST	Prostate surgery	Suprapubic, retropubic, radical, or perineal excision of the prostate; does not include transurethral resection of the prostate.		In	Out
PVBY	Peripheral vascular bypass surgery	Bypass operations on peripheral arteries	4	In	Out
REC	Rectal surgery	Operations on rectum		In	Out
RFUSN	Refusion of spine	Refusion of spine		In	Out
SB	Small bowel surgery	Incision or resection of the small intestine; does not include small-to-large bowel anastomosis		In	Out
SPLE	Spleen surgery	Resection or manipulation of spleen		In	Out
THOR	Thoracic surgery	Noncardiac, nonvascular thoracic surgery; includes pneumonectomy and diaphragmatic or hiatal hernia repair		In	Out
THYR	Thyroid and/or parathyroid surgery	Resection or manipulation of thyroid and/or parathyroid		In	Out
VHYS	Vaginal hysterectomy	Removal of the uterus through vaginal or perineal incision		In	Out



VSHN	Ventricular shunt	Ventricular shunt operations, including revision and removal of shunt		In	Out
XLAP	Abdominal surgery	Abdominal operations not involving the gastrointestinal tract or biliary system		In	Out

