SURGERY

USER MANUAL

Version 3.0
July 1993

(Revised September 2007)

Department of Veterans Affairs
VistA Health Systems Design & Development

Revision History

Each time this manual is updated, the Title Page lists the new revised date and this page describes the changes. If the Revised Pages column lists "All," replace the existing manual with the reissued manual. If the Revised Pages column lists individual entries (e.g., 25, 32), either update the existing manual with the Change Pages Document or print the entire new manual.

Date	Revised Pages	Patch Number	Description
09/07	125, 371, 375, 382	SR*3*163	Updated the Service Classification section regarding environmental indicators, unrelated to this patch. Updated the Quarterly Report to reflect updates to the numbers and names of specific specialties in the NATIONAL SURGICAL SPECIALTY file. (M. Montali, PM; S. Krakosky, Tech Writer)
06/07	35, 210, 212b	SR*3*159	Updated screens to reflect change of the environmental indicator "Environmental Contaminant" to "SWAC" (e.g., SouthWest Asia). (M. Montali, PM; S. Krakosky, Tech Writer)
06/07	176-180, 180a, 184c-d, 327c-d, 372, 375-376, 446, 449-450, 452-453, 455-456, 458, 461, 468, 470, 472, 479-479a, 482-484, 486a, 489, 491, 493, 495, 497, 499, 501, 502a-d, 504-506, 509-512, 519	SR*3*160	Updated the data entry options for the non-cardiac and cardiac risk management sections; these options have been changed to match the software. For more details, see the *Surgery NSQIP-CICSP Enhancements 2007 Release Notes*. Updated data entry screens to match software; changes are unrelated to this patch. (M. Montali, PM; S. Krakosky, Tech Writer)
11/06	10-12, 14, 21-22, 139-141, 145-150, 152, 219, 438	SR*3*157	Updated data entry options to display new fields for collecting sterility information for the Prosthesis Installed field; updated the Nurse Intraoperative Report section with these required new fields. For more details, see the *Surgery-Tracking Prosthesis Items Release Notes*. Updated data entry screens to match software; changes are unrelated to this patch. (M. Montali, PM; S. Krakosky, Tech Writer)

Date	Revised Pages	Patch Number	Description
08/06	6-9, 14, 109-112, 122-124, 141-149, 151-152, 176, 178-180, 180a-b, 181-184, 184a-d, 185-186, 218-219, 326-327, 327a-d, 328-329, 373, 377, 449-450, 452-456, 459, 461-462, 467-468, 468b, 469-470, 470a, 473-474, 474a-474b, 475, 477, 481-486, 486a-b, 489-502, 502a-b, 503-504, 509-512	SR*3*153	Updated the data entry options for the non-cardiac and cardiac risk management sections; these options have been changed to match the software. Updated data entry options to incorporate renamed/new Hair Removal documentation fields. Updated the Nurse Intraoperative Report and Quarterly Report to include these fields. For more details, see the *Surgery NSQIP/CICSP Enhancements 2006 Release Notes.* (M. Montali, PM; S. Krakosky, Tech Writer)
06/06	28-32, 40-50, 64-80, 101-102	SR*3*144	Updated options to reflect new required fields (Attending Surgeon and Principal Preoperative Diagnosis) for creating a surgery case. (M. Montali, PM; S. Krakosky, Tech Writer)
06/06	vi, 34-35, 125, 210, 212b, 522a-b	SR*3*152	Updated Service Classification screen example to display new PROJ 112/SHAD prompt. This patch will prevent the PRIN PRE-OP ICD DIAGNOSIS CODE field of the Surgery file from being sent to the Patient Care Encounter (PCE) package. Added the new *Alert Coder Regarding Coding Issues* option to the Surgery Risk Assessment Menu option. (M. Montali, PM; S. Krakosky, Tech Writer)
04/06	445, 464a-b, 465, 480a-b	SR*3*146	Added the new *Alert Coder Regarding Coding Issues* option to the Assessing Surgical Risk chapter. (M. Montali, PM; S. Krakosky, Tech Writer)

Date	Revised Pages	Patch Number	Description
04/06	6-8, 29, 31-32, 37-38, 40, 43-44, 46-48, 50, 52, 65-67, 71-73, 75-77, 79, 100, 102, 109-112, 117-120, 122-123, 125-127, 189-191, 195b, 209-212, 212a-h, 219a, 224-231, 238-242, 273-277, 311-313, 315-317, 369, 379- 392, 410, 449-464, 467-468, 468a-b, 469-470, 470a, 471-474, 474a-b, 475-479, 479a-b, 480, 483-484, 489-502, 507, 519	SR*3*142	Updated the data entry screens to reflect renaming of the Planned Principal CPT Code field and the Principal Pre-op ICD Diagnosis Code field. Updated the *Update/Verify Procedure/Diagnosis Coding* option to reflect new functionality. Updated Risk Assessment options to remove CPT codes from headers of cases displayed. Updated reports related to the coding option to reflect final CPT codes. For more specific information on changes, see the *Patient Financial Services System (PFSS) – Surgery Release Notes* for this patch. (M. Montali, PM; S. Krakosky, Tech Writer)
10/05	9, 109-110, 144, 151, 218	SR*3*147	Updated data entry screens to reflect renaming of the Preop Shave By field to Preop Hair Clipping By field. (M. Montali, PM; S. Krakosky, Tech Writer)
08/05	10, 14, 99-100, 114, 119-120, 124, 153-154, 162-164, 164a-b, 190, 192, 209-212f, 238-242	SR*3*119	Updated the Anesthesia Data Entry Menu section (and other data entry options) to reflect new functionality for entering multiple start and end times for anesthesia. Updated examples for Referring Physician updates (e.g., capability to automatically look up physician by name). Updated the PCE Filing Status Report section. (J. Podolec, PM; B. Manies, Tech Writer)
08/04	iv-vi, 187-189, 195, 195a-195b, 196, 207-208, 219a-b, 527-528	SR*3*132	Updated the Table of Contents and Index to reflect added options. Added the new *Non-OR Procedure Information* option and the *Tissue Examination Report* option (unrelated to this patch) to the Non-OR Procedures section.
08/04	31, 43, 46, 66, 71-72, 75-76, 311	SR*3*127	Updated screen captures to display new text for ICD-9 and CPT codes.

Date	Revised Pages	Patch Number	Description
08/04	vi, 441, 443, 445-456, 458-459, 461 463, 465, 467-468, 468a-b, 469-470, 470a-b, 471, 473-474, 474a-b, 474-479, 479a-b, 480-486, 486a-b, 519, 531-534	SR*3*125	Updated the Table of Contents and Index. Clarified the location of the national centers for NSQIP and CICSP. Updated the data entry options for the non-cardiac and cardiac risk management sections; these options have been changed to match the software and new options have been added. For an overview of the data entry changes, see the *Surgery NSQIP/CICSP Enhancements 2004 Release Notes.* Added the *Laboratory Test Result (Enter/Edit)* option and the *Outcome Information (Enter/Edit)* option to the *Cardiac Risk Assessment Information (Enter/Edit)* menu section. Changed the name of the *Cardiac Procedures Requiring CPB (Enter/Edit)* option to *Cardiac Procedures Operative Data (Enter/Edit)* option. Removed the *Update Operations as Unrelated/Related to Death* option from the *Surgery Risk Assessment Menu.*
08/04	6-10, 14, 103, 105-107, 109-112, 114-120, 122-124, 141-152, 218-219, 284-287, 324, 370-377	SR*3*129	Updated examples to include the new levels for the Attending Code (or Resident Supervision). Also updated examples to include the new fields for ensuring Correct Surgery. For specific options affected by each of these updates, please see the *Resident Supervision/Ensuring Correct Surgery Phase II Release Notes.*
04/04	All	SR*3*100	All pages were updated to reflect the most recent Clinical Ancillary Local Documentation Standards and the changes resulting from the Surgery Electronic Signature for Operative Reports project, SR*3*100. For more information about the specific changes, see the patch description or the *Surgery Electronic Signature for Operative Reports Release Notes.*

Surgeon's Verification of Diagnosis & Procedures
[SROVER]

Surgeons use this option to verify that the stated procedure(s), diagnosis, and occurrences are correct for a case. With this option, the surgeon can update the Operation Name, Planned CPT Code, Diagnosis, and Intraoperative Occurrences before verifying the case. If the case has already been verified, the user will be asked whether to re-verify it.

If the user responds **YES** to the prompt "Do you need to update the information above ?" the software will provide a summary for editing.

> If there are no occurrences, the INTRAOP OCCURRENCES field should be left blank. Do **not** enter **NO** or **NONE**.

The procedure and diagnosis codes are the codes captured with clinical data, and are supplied as defaults to the Coder when entering the final codes that will be sent to PCE.

Service Classifications

Information relating to a patient's status of Service Connected (SC) and Environmental Indicators (EI) are captured during patient registration. The Surgery software receives this data from enrollment and displays it when the user creates a case.

In the Surgery software, the patient's Service Classification status is determined at the case level when the case is created. The user can further refine status designations, not only per case, but also per diagnosis.

The system defaults the case-level Service Classification indicators into each Other Postop Diagnosis field as the user adds the Other Postop Diagnoses. The system allows the user to edit these fields if the user determines that the defaulted value is incorrect.

Example: Surgeon's Verification of Diagnosis & Procedures

```
Select Operation Menu Option: V  Surgeon's Verification of Diagnosis & Procedures

SURPATIENT,ONE  (000-44-7629)
Operation Date: JUN  5, 2005
-----------------------------------------------------------------------------
1. Indications for Operation:
   Swelling in the inguinal region.
2. Planned Principal CPT Code:  00830
   Assoc. DX: 1. 550.02  BILAT ING HERNIA W GANG
3. Principal Procedure: REMOVE HERNIA
4. Other Procedures:
5. Postoperative Diagnosis:   INGUINAL HERNIA
6. Intraoperative Occurrences: NO OCCURRENCES HAVE BEEN ENTERED
7. Principal Pre-OP Diagnosis: HERNIA
8. Principal Pre-OP Diagnosis Code: 550.02  BILAT ING HERNIA W GANG
-----------------------------------------------------------------------------

Do you need to update the information above ?  NO// Y

Select Information to Edit: 2:3
```

```
Planned Principal Procedure Code (CPT): 49521         REREPAIR ING HERNIA, BLOCKE
D
 REPAIR RECURRENT INGUINAL HERNIA, ANY AGE; INCARCERATED OR STRANGULATED
The Diagnosis to Procedure Associations may no longer be correct.
Delete Diagnosis Associations for this Procedure? N// NO


 Modifier: 59      DISTINCT PROCEDURAL SERVICE
 Modifier: <Enter>

 Principal Procedure: REMOVE HERNIA// REPAIR INGUINAL HERNIA
```

```
                  SUMMARY REPORT - SURGICAL SERVICE              PAGE
                         VERSION 3.0                              1

                     Hospital: MAYBERRY, NC
                     Station Number: 999
              For Dates: JUN 01, 2004  to: JUN 30, 2004
================================================================================

                              Total Cases     % of Total
                              -----------     ----------
       Surgical Cases              315           100.0
       Major Procedures            203            64.4
            ASA Class (1)           10             4.9
            ASA Class (2)           70            34.5
            ASA Class (3)          120            59.1
            ASA Class (4)            3             1.5
            ASA Class (5)            0             0.0
            ASA Class (6)            0             0.0
       Postoperative Deaths         2             0.6
            Ambulatory: 0
       Postoperative Occurrences   18             5.7
       Ambulatory Procedures      201            63.8
            Admitted Within 14 Days: 0
            Invasive Diagnostic: 1
       Inpatient Procedures       114            36.2
       Emergency Procedures        14             4.4
       Age>60 Years               141            44.8


                          SPECIALTY PROCEDURES
                          --------------------

                                                       ---DEATHS---
                      PATIENTS   CASES   MAJOR   MINOR   TOTAL    %
                      --------   -----   -----   -----   -----   ----
   48  CARDIAC SURGERY        0       0       0       0       0    0.0
   49  TRANSPLANTATION        0       0       0       0       0    0.0
   50  GENERAL SURGERY       63      64      54      10       1    1.6
   51  OB/GYN                 7       7       7       0       0    0.0
   52  NEUROSURGERY          12      14      13       1       0    0.0
   53  OPHTHALMOLOGY         57      59       0      59       0    0.0
   54  ORTHOPEDICS           53      56      46      10       0    0.0
   55  EAR, NOSE, THROAT (ENT) 35    35      32       3       0    0.0
   56  PLASTIC SURGERY        8       8       4       4       0    0.0
   57  PROCTOLOGY             0       0       0       0       0    0.0
   58  THORACIC SURGERY       3       3       3       0       0    0.0
   59  UROLOGY               19      20      20       0       0    0.0
   60  ORAL SURGERY           1       1       1       0       0    0.0
   61  PODIATRY              25      25       3      22       0    0.0
   62  PERIPHERAL VASCULAR   21      23      20       3       1    4.3
   78  ANESTHESIOLOGY         0       0       0       0       0    0.0


                  LEVEL OF RESIDENT SUPERVISION (%)
                  ---------------------------------
                               MAJOR    MINOR
             Level A             0.0    100.0
             Level B            66.7      0.0
             Level C             0.0      0.0
             Level D             0.0      0.0
             Level E            33.3      0.0
             Level F             0.0      0.0
             Level Not Entered   0.0      0.0
```

```
                 SUMMARY REPORT - SURGICAL SERVICE              PAGE
                          VERSION 3.0                            2

                        Hospital: MAYBERRY, NC
                         Station Number: 999
                 For Dates: JUN 01, 2004  to: JUN 30, 2004
=====================================================================================
```

```
                           INDEX PROCEDURES
                           ----------------
                                              CASES WITH
                         CASES      DEATHS     OCCURRENCES
                         -----      -------    -----------
     Inguinal Hernia       13          0           0
     Cholecystectomy        3          0           0
     Coronary Artery Bypass 0          0           0
     Colon Resection (L & R) 5         0           1
     Fem-Pop Bypass         2          0           1
     Pulmonary Lobectomy    0          0           0
     Hip Replacement
       - Elective           7          0           2
       - Acute Fracture     0          0           0
     TURP                   0          0           0
     Laryngectomy           0          0           0
     Craniotomy             0          0           0
     Intraoccular Lens     44          0           0
```

```
                    PERIOPERATIVE OCCURRENCE CATEGORIES
                    -----------------------------------
```

Wound Occurrences	Total	Urinary Occurrences	Total
A. Superficial Infection	6	A. Renal Insufficiency	2
B. Deep Wound Infection	0	B. Acute Renal Failure	0
C. Wound Disruption	0	C. Urinary Tract Infection	2
D. Other	0	D. Other	0

Respiratory Occurrences	Total	CNS Occurrences	Total
A. Pneumonia	7	A. CVA/Stroke	0
B. Unplanned Intubation	3	B. Coma >24 Hours	0
C. Pulmonary Embolism	0	C. Peripheral Nerve Injury	1
D. On Ventilator >48 Hours	4	D. Other	0
E. Tracheostomy	0		
F. Repeat Vent w/in 30 Days	0		
G. Other	0		

		Other Occurrences	Total
Cardiac Occurrences	Total	A. Organ/Space SSI	0
A. Cardiac Arrest Req. CPR	0	B. Bleeding/Transfusions	1
B. Myocardial Infarction	1	C. Graft/Prosthesis/Flap	
C. Endocarditis	0	Failure	0
D. Low Cardiac Output >6 Hrs.	0	D. DVT/Thrombophlebitis	0
E. Mediastinitis	0	E. Systemic Sepsis	2
F. Repeat Card Surg Proc	0	F. Reoperation for Bleeding	0
G. New Mech Circulatory Sup	1	G. C. difficile Colitis	2
H. Other	0	H. Other	1

```
     Clean Wound Infection Rate:   2.1
```

```
                    QUARTERLY REPORT - SURGICAL SERVICE              PAGE
                            VERSION 3.0                                1

    Hospital: MAYBERRY, NC                        Station Number: 999
    For Dates: APR 01, 2004    to: JUN 30, 2004   Fiscal Year: 2004
================================================================================

                                  Total Cases      % of Total
                                  -----------      ----------
        Surgical Cases               1315            100.0
        Major Procedures              973             74.0
            ASA Class (1)              34              3.5
            ASA Class (2)             305             31.3
            ASA Class (3)             579             59.5
            ASA Class (4)              54              5.5
            ASA Class (5)               0              0.0
            ASA Class (6)               0              0.0
            ASA Class (Not Entered)     1              0.1
        Postoperative Deaths           10              0.8
            Ambulatory: 3
        Postoperative Occurrences      17              1.3
        Ambulatory Procedures         794             60.4
            Admitted Within 14 Days: 2
            Invasive Diagnostic: 146
        Inpatient Procedures          521             39.6
        Emergency Procedures           45              3.4
        Age>60 Years                  729             55.4


                          SPECIALTY PROCEDURES
                          --------------------

                                                        ---DEATHS---
                      PATIENTS   CASES   MAJOR   MINOR   TOTAL    %
                      --------   -----   -----   -----   -----   ----
    48  CARDIAC SURGERY         40       40      40       0       0     0.0
    49  TRANSPLANTATION          0        0       0       0       0     0.0
    50  GENERAL SURGERY        140      147     147       0       4     2.7
    51  OB/GYN                   9        9       9       0       0     0.0
    52  NEUROSURGERY            53       56      56       0       1     1.8
    53  OPHTHALMOLOGY          186      208     204       4       0     0.0
    54  ORTHOPEDICS            156      162     159       3       1     0.6
    55  EAR, NOSE, THROAT (ENT) 90       95      93       2       0     0.0
    56  PLASTIC SURGERY         40       44      44       0       0     0.0
    57  PROCTOLOGY               0        0       0       0       0     0.0
    58  THORACIC SURGERY        19       22      22       0       0     0.0
    59  UROLOGY                279      321     102     219       3     0.9
    60  ORAL SURGERY            14       14      14       0       0     0.0
    61  PODIATRY                36       42      42       0       0     0.0
    62  PERIPHERAL VASCULAR     39       41      41       0       1     2.4
    78  ANESTHESIOLOGY          99      114       0     114       0     0.0


                     LEVEL OF RESIDENT SUPERVISION (%)
                     ---------------------------------
                               MAJOR    MINOR
                  Level A        0.2     53.5
                  Level B       95.4     36.3
                  Level C        2.1      0.0
                  Level D        2.4      0.3
                  Level E        0.0      0.0
                  Level F        0.0      0.0
                  Level Not Entered  0.0  9.9
```

```
 Hospital: MAYBERRY, NC                      Station Number: 999
  For Dates: APR 01, 2004      to: JUN 30, 2004    Fiscal Year: 2004
==============================================================================
```

```
                          INDEX PROCEDURES
                          ----------------
                                             CASES WITH
                          CASES     DEATHS   OCCURRENCES
                          -----     ------   -----------
     Inguinal Hernia       31         0          1
     Cholecystectomy        6         0          0
     Coronary Artery Bypass 34        0          2
     Colon Resection (L & R) 8        1          2
     Fem-Pop Bypass         4         0          0
     Pulmonary Lobectomy    3         0          0
     Hip Replacement
       - Elective          14         0          0
       - Acute Fracture     2         0          1
     TURP                  21         0          0
     Laryngectomy           0         0          0
     Craniotomy             4         0          0
     Intraoccular Lens    135         0          0
```

```
                   PERIOPERATIVE OCCURRENCE CATEGORIES
                   ----------------------------------
```

```
Wound Occurrences         Total    Urinary Occurrences       Total
A. Superficial Infection    9      A. Renal Insufficiency       0
B. Deep Wound Infection     1      B. Acute Renal Failure       0
C. Wound Disruption         1      C. Urinary Tract Infection   2
D. Other                    0      D. Other                     0


Respiratory Occurrences   Total    CNS Occurrences           Total
A. Pneumonia                4      A. CVA/Stroke                0
B. Unplanned Intubation     2      B. Coma >24 Hours            0
C. Pulmonary Embolism       0      C. Peripheral Nerve Injury   0
D. On Ventilator >48 Hours  3      D. Other                     0
E. Tracheostomy             0
F. Repeat Vent w/in 30 Days 0
G. Other                    0


                                   Other Occurrences         Total
                                   A. Organ/Space SSI           0
Cardiac Occurrences       Total    B. Bleeding/Transfusions     0
A. Cardiac Arrest Req. CPR  0      C. Graft/Prosthesis/Flap
B. Myocardial Infarction    0                       Failure    0
C. Endocarditis             0      D. DVT/Thrombophlebitis      0
D. Low Cardiac Output >6 Hrs. 0    E. Systemic Sepsis           1
E. Mediastinitis            0      F. Reoperation for Bleeding  0
F. Repeat Card Surg Proc    0      G. C. difficile Colitis      1
G. New Mech Circulatory Sup 0      H. Other                     0
H. Other                    0

Clean Wound Infection Rate:  1.0%
```

Example 2: Deaths Within 30 Days of Surgery - Specialty Procedures

```
Select Quarterly Report Menu Option: D  Deaths Within 30 Days of Surgery


                     Deaths Within 30 Days of Surgery

This report lists patients who had surgery within the selected date range,
who died within 30 days of surgery and whose deaths are included on the
Quarterly/Summary Report.

Start with Date: 4/1  (APR 01, 2005)
End with Date: 4/30  (APR 30, 2005)

Print report for which section of Quarterly/Summary Report ?

 1. Total Cases Summary
 2. Specialty Procedures
 3. Index Procedures

Select number: 1// 2  Specialty Procedures


Do you want the report for all National Surgical Specialties ? YES// <Enter>

This report is designed to use a 132 column format.

Print the report to which Printer ? [Select Print Device]
```
--*printout follows*--

```
                                      MAYBERRY, NC
                 DEATHS WITHIN 30 DAYS OF SURGERY LISTED FOR SPECIALTY PROCEDURES                         PAGE 1
                      FOR SURGERY PERFORMED FROM: APR 1,2005  TO: APR 30,2005
                             Report Printed: MAY 18,2005@12:38


OP DATE      PATIENT NAME               DATE OF DEATH   LOCAL SPECIALTY                       IN/OUT   DEATH RELATED
CASE #       PATIENT ID# (AGE)          PROCEDURE(S)
===================================================================================================================
>>> GENERAL SURGERY <<<

04/24/05     SURPATIENT,FORTY           05/12/05        GENERAL(OR WHEN NOT DEFINED BELOW)    INPAT    UNRELATED
32693        000-77-7777 (70)           CLOSURE OF ABDOMINAL WALL FASCIA


TOTAL DEATHS FOR GENERAL SURGERY: 1
-------------------------------------------------------------------------------------------------------------------
>>> THORACIC SURGERY  <<<

04/26/05     SURPATIENT,TEN             05/12/05        THORACIC SURGERY (INC. CARDIAC SURG.)  INPAT   UNRELATED
32702        000-12-3456 (68)           RIGHT THORACOTOMY WITH LUNG BIOPSY
                                        DIAPHRAGM  BIOPSY

04/21/05     SURPATIENT,SIXTY           04/30/05        THORACIC SURGERY (INC. CARDIAC SURG.)  INPAT   RELATED
32567        000-56-7821 (40)           ESOPHAGECTOMY
                                        ESOPHAGOSCOPY
                                        BRONCHOSCOPY
                                        FEEDING TUBE JEJUNOSTOMY


TOTAL DEATHS FOR THORACIC SURGERY: 2
-------------------------------------------------------------------------------------------------------------------

TOTAL FOR ALL SPECIALTIES: 3
```