

Surgery

Technical Manual/Security Guide



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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
11/15	All	SR*3*184	Added the new routines, new files added by this patch, and updated Glossary page for the Abort definition. Additions/removals necessitated a document reissue. REDACTED
09/14	i, 13, 72, 78	SR*3*182	Removed the SURGERY DISPOSITION file (#131.6) from the list of files that can be maintained by sites. Change SURGERON field (#.14) to “PRIMARY SURGEON”. Updated the Glossary to reflect new changes related to cancellation process. REDACTED
07/14	i, 14 , 18-19 , 39 , 40	SR*3*177	Removed “9” from references to ICD. Added File #130.4 ICD SEARCH API. Added 3 new routines: SR3P177, SROICDGT, and SROICDL. Added input templates: SREQUEST-ICD10, SRSCHED-UNREQUESTED-ICD10, SRSRES2. REDACTED
03/12	i, iii, 10, 18-19, 23-25, 71, 73, 80-82	SR*3*176	References to “Quarterly Report” removed. Routine “SROQ30D” added to the list of routines. Removal of “9” from references to ICD. Appendix A removed. Index renumbered. REDACTED
09/11	i, 13, 18-19, 20-22, 24-29, 34-36, 38, 40, 67, 69, 78-79	SR*3*175	Change in definitions. Routine SRTOVRF added to the list of routines. Options description list updated. Quarterly Report Menu removed. References to CICSP and NSQIP removed from the Glossary. REDACTED
12/10	i, 27	SR*3*174	Change in definition of List of Surgery Risk Assessments report. REDACTED
11/08	All	SR*3*167	Updated to provide the Surgery Transplant Assessment module information. Additions necessitated a document reissue. REDACTED

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Introduction

This section provides an overview of the Surgery package, and also provides documentation conventions used in this *Surgery V. 3.0 Technical Manual/Security Guide*.

Overview

The Surgery package is designed to be used by Surgeons, Surgical Residents, Anesthetists, Operating Room Nurses, and other surgical staff. The Surgery package is part of the patient information system that stores data on patients who have, or are about to undergo, surgical procedures. This package integrates booking, clinical, and patient data to provide a variety of administrative and clinical reports.

The *Surgery V. 3.0 Technical Manual/Security Guide* acquaints the user with the various Surgery options and offers specific guidance on the maintenance and use of the Surgery package. Documentation concerning the Surgery package, including any subsequent change pages affecting this documentation, is located on the VistA Documentation Library (VDL) on the Internet at <http://www.va.gov/vdl/>.

Organization

The Surgery package contains the following major components, also called modules:

- Requesting and Scheduling
- Tracking Clinical Procedures
- Generating Surgical Reports
- Chief of Surgery Module
- Managing the Software Package
- Assessing Surgical Risk
- Assessing Surgical Transplants

Requesting and Scheduling

The surgeon uses this component to enter requests for surgical procedures. These requests are then assigned an operating room and time slot by the operating room scheduling manager. The Operating Room Schedule is generated automatically on any designated printer in the medical center. The Request and Scheduling module also allows for the rescheduling or cancellation of operative procedures.

Tracking Clinical Procedures

This component is comprised of options used to enter information specific to an individual surgical case. This information includes staff, times, diagnosis, perioperative occurrences, and anesthesia information. The package is designed so that information regarding a case can be entered on a terminal inside the operating room during the actual operative procedure. This information can then be used to generate the Patient Record and the Nurse Intraoperative Report.

Generating Surgical Reports

This module contains management reports for the Surgical Service. Reports generated include:

- Annual Report of Surgical Procedures
- Attending Surgeons Report
- Nurse Staffing Report
- Laboratory Interim Report

Chief of Surgery Reporting

This module contains options and reports for the exclusive use of the Service Chief. The Chief has access to lists of cancellations and operations to be dictated, the Morbidity and Mortality Report, and Patient Perioperative Occurrences.

Managing the Software Package

This module contains options designed for the Surgery package coordinator. The package coordinator can configure some of the Surgery fields to conform to the site's needs.

Assessing Surgical Risk




This module provides medical centers a mechanism to track information related to surgical risk and operative mortality. It gives surgeons an online method for evaluating and tracking patient probability of operative mortality. The Risk Assessment Data Manager is the primary user of this component.

Assessing Surgical Transplants

This module provides medical centers a mechanism to track information related to surgical transplant risk and operative mortality. The Transplant Coordinator is the primary user of this component. Additionally, this module is placed out of order with VistA patch SR*3*184.

Documentation Conventions

This *Surgery V. 3.0 Technical Manual/Security Guide* includes documentation conventions, also known as notations, which are used consistently throughout this manual. Each convention is outlined below.

Convention	Example
Menu option text is italicized.	The <i>Print Surgery Waiting List</i> option generates the long form surgery waiting list for the surgical service(s) selected.
Screen prompts are denoted with quotation marks around them.	The "Puncture Site:" prompt will display next.
Responses in bold face indicate user input.	Needle Size: 25G
Text centered between arrows represents a keyboard key that needs to be pressed for the system to capture a user response or move the cursor to another field. <Enter> indicates that the Enter key (or Return key on some keyboards) must be pressed. <Tab> indicates that the Tab key must be pressed.	Type Y for Yes or N for No and press <Enter>. Press <Tab> to move the cursor to the next field.
 Indicates especially important or helpful information.	 If the user attempts to reschedule a case after the schedule close time for the date of operation, only the time, and not the date, can be changed.
Indicates that options are locked with a particular security key. The user must hold the particular security key to be able to perform the menu option.	 Without the SROAMIS key the <i>Anesthesia AMIS</i> option cannot be accessed.

Getting Help and Exiting

?, ??, ??? One, two or three question marks can be entered at any of the prompts for online help. One question mark elicits a brief statement of what information is appropriate for the prompt. Two question marks provide more help, plus the hidden actions, and three question marks will provide more detailed help, including a list of possible answers, if appropriate.

Up arrow (caret or a circumflex) and pressing <Enter> can be used to exit the present option.

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Technical Manual

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Implementation and Maintenance

The Implementation and Maintenance section contains information regarding the installation and setup of the Surgery package.

Installation

For installation of the Surgery V. 3.0 software package, please call the VA Service Desk (VASD) at 1-888-596-4357 (HELP).

Site Specific Parameters

Before using the Surgery package, the following initial information must be set up.

1. NEW PERSON File (#200)

All personnel (surgeons, anesthesiologists, nurses, etc.) must be properly defined in the NEW PERSON file (#200).

2. Security Keys

Security keys have various uses in the Surgery package and must be assigned as needed before using the package. The security keys used by the Surgery package are described in the Security Keys section of this manual.

3. Surgery Site Parameters

There are a number of fields contained in the SURGERY SITE PARAMETERS file (#133) that can be updated locally. These fields are described below in the order they display in the Screen Server. The *Surgery Package Management Menu* [SRO PACKAGE MANAGEMENT] option contains the *Surgery Site Parameters (Enter/Edit)* [SROPARAM] option to facilitate editing.

MAIL CODE FOR ANESTHESIA Field (#3): This is the mail code for the Anesthesia service. It will be used to flag anesthesiologists on the Anesthesia AMIS.

CANCEL IVS Field (#6): If this field is set equal to YES, all active IV orders are cancelled when a surgical case begins.

DEFAULT BLOOD COMPONENT Field (#41): If a facility uses a certain type of blood component for most surgical cases, the user can enter that blood component in this field. The component displays as a default when requesting blood.

CHIEF'S NAME Field (#9): This is the name of the Chief of Surgery. The name displays on the schedule of operations in the format entered in this field.

LOCK AFTER HOW MANY DAYS Field (#10): This field determines how many days a surgical case remains unlocked after completion. Editing information related to a surgical case is prohibited after a case has been locked.

REQUEST DEADLINE Field (#11): This is the time of day that requests are no longer accepted for the next available day. This field is used along with the REQUEST CUTOFF fields explained in this section.

SCHEDULE CLOSE TIME Field (#13): This is the time of day that the schedule will be closed for the following day. It is used to determine whether canceled cases will appear on the cancellation report. Cases canceled before this time are not counted as cancellations and are deleted from the system. The SCHEDULE CLOSE TIME cannot be later than 3:00 pm.

NURSE INTRAOP REPORT Field (#29): This field determines which format is used when printing the Nurse Intraoperative Report. One format prints all field titles, even when there is no data associated with the field. The other only prints those field titles that have information entered.

CARDIAC ASSESSMENT IN USE (Y/N) Field (#15): This field determines whether the Cardiac Risk Assessment Module is being used at this facility. If so, enter 'YES'; if not enter 'NO'.

ASK FOR RISK PREOP INFO Field (#17): This field is used to determine if the user should be prompted for risk assessment preoperative information when entering a new case and when updating a requested or scheduled case.

SURGICAL RESIDENTS (Y/N) Field (#33): This field indicates whether residents may perform surgery at this facility. Enter NO if all surgeons at this facility are staff surgeons. If this field is NO, an attending surgeon is not required by the PCE interface and cases with no attend code are counted as Level 0 (Staff Alone) on the Quarterly Report.

REQUIRED FIELDS FOR SCHEDULING Field (#28): With Surgery V. 3.0, scheduling of a surgical case can be prohibited until certain fields have been entered. This "multiple" field will contain any fields that are required prior to scheduling a procedure. For example, if the user wants to make the principal operative code (CPT), mandatory for scheduling, the field name would be entered here. Since this is a multiple field, the user can restrict scheduling dependent on more than one field. Fields that are multiple fields or that are word-processing fields cannot be selected.

REQUEST CUTOFF FOR SUNDAY Field (#20): This field determines which day of the week is the cutoff day for requesting cases for Sunday. For example, if the cutoff day is Friday, the user is unable to request cases for Sunday after the request deadline on Friday. Sunday can also be made inactive, prohibiting requests entirely.

The following fields function similar to the REQUEST CUTOFF FOR SUNDAY field:

REQUEST CUTOFF FOR MONDAY field (#21)
REQUEST CUTOFF FOR TUESDAY field (#22)
REQUEST CUTOFF FOR WEDNESDAY field (#23)
REQUEST CUTOFF FOR THURSDAY field (#24)
REQUEST CUTOFF FOR FRIDAY field (#25)
REQUEST CUTOFF FOR SATURDAY field (#26)

HOLIDAY SCHEDULING ALLOWED Field (#27): This field determines which holidays have surgical cases scheduled. This information must be updated each year for all holidays.

INACTIVE? Field (#35): This field is used to make a division inactive and to prevent its selection and use by Surgery users.

AUTOMATED CASE CART ORDERING Field (#37): This field indicates whether or not the CoreFLS interface is in use at the facility. Enter YES, NO, or leave the field blank.

ANESTHESIA REPORT IN USE Field (#40): Many Veterans Affairs (VA) Medical Centers do not use the Anesthesia Report provided with the Surgery package. A parameter has been created so that the automatic creation of stub Anesthesia Reports in the Text Integration Utilities (TIU) files can be eliminated when an operation is completed. If a site does not use the report, there is no need to create the stub for eventual signature. To indicate that the site uses the Anesthesia Report, select YES. If the site does not use the Anesthesia Report, select NO.

DEFAULT CLINIC FOR DOCUMENTS Field (# 42): Enter a non-count clinic so that TIU documents will be associated with the appropriate default clinics. This non-count clinic is the default clinic for this division. It will be the location passed to TIU when Surgery documents are created if no other location can be identified. Enter the hospital location name, abbreviation, or team name.

CODE ISSUE MAIL GROUP Field (# 43): This is the name of the mail group that will receive all coding issue messages sent by the Risk Assessment Nurse Reviewer. When the Non-Cardiac and Cardiac Risk Assessment option Alert Coder Regarding Coding Issues is used, a mail message is sent to the person that coded the Surgery case and the mail group identified in this field.

4. Options Tasked Daily

The following option must be performed on a daily basis.

SRTASK-NIGHT: This option initiates a number of background tasks to clean up the surgery database and update all appropriate information. Among the tasks performed are calculation of average procedure times, cleanup of outstanding requests, update expected start and end times for operating rooms, locking cases, transmit risk assessment and workload information, and send updates to PCE.

5. Adding Operating Rooms

The operating rooms must be added to the VA FileMan HOSPITAL LOCATION file (#44) and the OPERATING ROOM file (#131.7) before they can be used in any of the Surgery package applications. All locations for non-O.R. procedures must be defined in the HOSPITAL LOCATION file (#44).

HOSPITAL LOCATION file (#44)

The following is an example of how to set up an operating room in the HOSPITAL LOCATION file (#44). Please coordinate entries with the Medical Administration Service (MAS) package coordinator.

Example: Setting Up an Operating Room in the HOSPITAL LOCATION file (#44)

```
Select VA FileMan Option: Enter or Edit File Entries

INPUT TO WHAT FILE: HOSPITAL LOCATION
EDIT WHICH FIELD: ALL// <Enter>

Select HOSPITAL LOCATION NAME: OR1
  ARE YOU ADDING 'OR1' AS A NEW HOSPITAL LOCATION (THE 24TH)? Y (YES)
  HOSPITAL LOCATION TYPE: OR OPERATING ROOM
  HOSPITAL LOCATION TYPE EXTENSION: OPERATING ROOM// <Enter>
ABBREVIATION: OR1
TYPE: OPERATING ROOM// <Enter>
TYPE EXTENSION: OPERATING ROOM// <Enter>
INSTITUTION: BIRMINGHAM, AL. [Very important at multi-division medical centers.]
DIVISION: ^
  [It is unnecessary to enter any other fields in this file. Enter an up arrow
  (^) to exit.]
```

OPERATING ROOM file (#131.7)

Following is an example of how to set up an operating room in the OPERATING ROOM file (#131.7).

The *Surgery Utilization Menu* [SR OR UTIL] option in the *Surgery Package Management Menu* [SRO PACKAGE MANAGEMENT] *option* has a sub-option called the *Normal Daily Hours (Enter/Edit)* [SR NORMAL HOURS] option for editing operating room normal daily hours. The *Operating Room Information (Enter/Edit)* [SRO-ROOM] option in the *Surgery Package Management Menu* [SRO PACKAGE MANAGEMENT] option can be used to edit other information in this file.



The Schedule of Operations displays the operating rooms in the same sequence in which they are entered in the OPERATING ROOM file (#131.7).

Example: Setting Up an Operating Room in the OPERATING ROOM File (#131.7)

```
Select VA FileMan Option: Enter or Edit File Entries

INPUT TO WHAT FILE: OPERATING ROOM
EDIT WHICH FIELD: ALL// <Enter>

Select OPERATING ROOM NAME: OR1
  ARE YOU ADDING 'OR1' AS A NEW OPERATING ROOM (THE 1ST)? Y (YES)
LOCATION: THIRD FLOOR NORTH WING
PERSON RESP.: SURNURSE,ONE
TELEPHONE: EXT 5244
REMARKS: <Enter>
TYPE: ?
  ANSWER WITH OPERATING ROOM TYPE NAME
  DO YOU WANT THE ENTIRE 13-ENTRY OPERATING ROOM TYPE LIST? Y (YES)
CHOOSE FROM:
  AMBULATORY OPERATING ROOM
  CARDIAC OPERATING ROOM
  CARDIAC/NEURO OPERATING ROOM
  CLINIC
  CYSTOSCOPY ROOM
  DEDICATED ROOM
  ENDOSCOPY ROOM
  GENERAL PURPOSE OPERATING ROOM
  INTENSIVE CARE UNIT
  NEUROSURGERY OPERATING ROOM
  ORTHOPEDIC OPERATING ROOM
  OTHER LOCATION
  WARD

TYPE: GENERAL PURPOSE OPERATING ROOM
CLEANING TIME: 30
Select DAY OF THE WEEK: SUNDAY
  ARE YOU ADDING 'SUNDAY' AS A NEW DAY OF THE WEEK (THE 1ST FOR THIS OPERATING ROOM)? Y (YES)
  NORMAL START TIME: <Enter>
  NORMAL END TIME: <Enter>
  INACTIVE (Y/N): YES
Select DAY OF THE WEEK: MONDAY
  ARE YOU ADDING 'MONDAY' AS A NEW DAY OF THE WEEK (THE 2ND FOR THIS OPERATING ROOM)? Y (YES)
  NORMAL START TIME: 07:00
  NORMAL END TIME: 15:30
  INACTIVE (Y/N): <Enter>
Select DAY OF THE WEEK: TUESDAY
  ARE YOU ADDING 'TUESDAY' AS A NEW DAY OF THE WEEK (THE 3RD FOR THIS OPERATING ROOM)? Y (YES)
  NORMAL START TIME: 07:00
  NORMAL END TIME: 15:30
  INACTIVE (Y/N): <Enter>
Select DAY OF THE WEEK: WEDNESDAY
  ARE YOU ADDING 'WEDNESDAY' AS A NEW DAY OF THE WEEK (THE 4TH FOR THIS OPERATING ROOM)? Y (YES)
  NORMAL START TIME: 07:00
  NORMAL END TIME: 15:30
  INACTIVE (Y/N): <Enter>
Select DAY OF THE WEEK: THURSDAY
  ARE YOU ADDING 'THURSDAY' AS A NEW DAY OF THE WEEK (THE 5TH FOR THIS OPERATING ROOM)? Y (YES)
  NORMAL START TIME: 07:00
  NORMAL END TIME: 15:30
  INACTIVE (Y/N): <Enter>
Select DAY OF THE WEEK: FRIDAY
  ARE YOU ADDING 'FRIDAY' AS A NEW DAY OF THE WEEK (THE 6TH FOR THIS OPERATING ROOM)? Y (YES)
  NORMAL START TIME: 07:00
  NORMAL END TIME: 15:30
  INACTIVE (Y/N): <Enter>
Select DAY OF THE WEEK: SATURDAY
  ARE YOU ADDING 'SATURDAY' AS A NEW DAY OF THE WEEK (THE 7TH FOR THIS OPERATING ROOM)? Y (YES)
  NORMAL START TIME: <Enter>
  NORMAL END TIME: <Enter>
  INACTIVE (Y/N): YES
INACTIVE?: <Enter>
```

6. Adding Entries to Surgery-Related Files

There are several site-configurable Surgery files that may need updating to add new entries or to inactivate or change existing entries. These configurable files are listed below. Use the *Update Site Configurable Files* [SR UPDATE FILES] option on the *Surgery Package Management Menu* [SRO PACKAGE MANAGEMENT] option to update these files.

- SURGERY TRANSPORTATION DEVICES file (#131.01)
- SURGERY POSITION file (#132)
- SURGICAL DELAY file (#132.4)
- IRRIGATION file (#133.6)
- SKIN INTEGRITY file (#135.2)
- PATIENT CONSCIOUSNESS file (#135.4)
- ELECTROGROUND POSITIONS file (#138)
- PROSTHESIS file (#131.9)
- RESTRAINTS AND POSITIONAL AIDS file (#132.05)
- MONITORS file (#133.4)
- SURGERY REPLACEMENT FLUIDS file (#133.7)
- SKIN PREP AGENTS file (#135.1)
- PATIENT MOOD file (#135.3)
- LOCAL SURGICAL SPECIALTY file (#137.45)
- SPECIAL EQUIPMENT file (#131.3)
- PLANNED IMPLANT file (#131.5)
- PHARMACY ITEMS file (#131.06)
- SPECIAL INSTRUMENTS file (#131.02)
- SPECIAL SUPPLIES file (#131.04)

7. Flag Drugs for Anesthesia Agents

Drugs to be used as anesthesia agents must be flagged or they cannot be selected as entries in the ANESTHESIA AGENT data fields.

8. Mail Groups

The following mail groups should be created with the appropriate persons added as members.

RISK ASSESSMENT
SRHL DISCREPANCY
SR TRANSPLANT

Files

Each entry in the SURGERY file (#130) contains information regarding a surgery case, consisting of an operative procedure, or multiple operative procedures, for a patient. The file includes the information necessary for creating the Nurse Intraoperative Report, the Operation Report, and the Anesthesia Report.

The following files are exported with the Surgery package.

File #	Name	Update DD	Data Comes With File	User Override
130	SURGERY	YES	NO	YES
130.4	ICD SEARCH API	YES	YES	NO
131	PERSON FIELD RESTRICTION	YES	YES (MERGE)	NO
131.01	SURGERY TRANSPORTATION DEVICES	YES	YES (MERGE)	YES
131.02	SPECIAL INSTRUMENTS	YES	NO	YES
131.04	SPECIAL SUPPLIES	YES	NO	YES
131.06	PHARMACY ITEMS	YES	NO	YES
131.25	OPERATION TIMES	YES	NO	YES
131.3	SPECIAL EQUIPMENT	YES	NO	YES
131.4	CPT-SPINAL LEVEL	YES	NO	YES
131.5	PLANNED IMPLANT	YES	NO	YES
131.6	SURGERY DISPOSITION	YES	YES	NO
131.7	OPERATING ROOM	YES	NO	YES
131.8	SURGERY UTILIZATION	YES	NO	YES
131.9	PROSTHESIS	YES	NO	YES
132	SURGERY POSITION	YES	YES (MERGE)	YES
132.05	RESTRAINTS AND POSITIONAL AIDS	YES	YES (MERGE)	YES
132.4	SURGICAL DELAY	YES	YES (MERGE)	YES
132.8	ASA CLASS	YES	YES (OVERWRITE)	NO
132.9	ATTENDING CODES	YES	YES	NO
132.95	ANESTHESIA SUPERVISOR CODES	YES	YES (OVERWRITE)	NO
133	SURGERY SITE PARAMETERS	YES	NO (OVERWRITE)	YES
133.2	SURGERY INTERFACE PARAMETER	YES	YES	YES
133.4	MONITORS	YES	YES (MERGE)	YES
133.6	IRRIGATION	YES	YES (MERGE)	YES
133.7	SURGERY REPLACEMENT FLUIDS	YES	YES (MERGE)	YES
133.8	SURGERY WAITING LIST	YES	NO	YES
134	OPERATING ROOM TYPE	YES	YES (OVERWRITE)	YES
135	SURGERY CANCELLATION REASON	YES	YES (MERGE)	YES
135.1	SKIN PREP AGENTS	YES	YES (MERGE)	YES
135.2	SKIN INTEGRITY	YES	YES (MERGE)	YES
135.3	PATIENT MOOD	YES	YES (MERGE)	YES
135.4	PATIENT CONSCIOUSNESS	YES	YES (MERGE)	YES

File #	Name	Update DD	Data Comes With File	User Override
136	SURGERY PROCEDURE/DIAGNOSIS CODES	YES	NO	YES
136.5	PERIOPERATIVE OCCURRENCE CATEGORY	YES	YES (OVERWRITE)	NO
137	CPT EXCLUSIONS	YES	NO	NO
137.45	LOCAL SURGICAL SPECIALTY	YES	YES (OVERWRITE)	YES
138	ELECTROGROUND POSITIONS	YES	YES (MERGE)	YES
139.2	RISK MODEL LAB TEST	YES	YES (OVERWRITE)	YES
139.5	SURGERY TRANSPLANT ASSESSMENTS	YES	NO	NO

The following non-Surgery file is exported with the Surgery package.

File #	Name	Update DD	Data Comes With File	User Override
723	MEDICAL SPECIALTY	YES	YES (OVERWRITE)	YES

File Descriptions

View file descriptions by using the VA FileMan *Print File Entries* [DIPRINT] option. Surgery file numbers range from 130 to 139.5.

```
Select VA FileMan Option: PRINT FILE ENTRIES
```

```
OUTPUT FROM WHAT FILE: FILE
SORT BY: NAME// .001 NUMBER
START WITH NUMBER: FIRST// 130
GO TO NUMBER: LAST// 130
  WITHIN NUMBER, SORT BY:
FIRST PRINT ATTRIBUTE: 1 GLOBAL NAME
THEN PRINT ATTRIBUTE: .01 NAME
THEN PRINT ATTRIBUTE: DESCRIPTION (word-processing)
THEN PRINT ATTRIBUTE:
Heading (S/C): FILE LIST// <Enter>
START AT PAGE: 1// <Enter>
```

```
DEVICE:  VIRTUAL    Right Margin: 80// <Enter>
```

```
FILE LIST                                AUG 15,2001  10:17    PAGE 1
GLOBAL NAME      NAME
  DESCRIPTION
```

```
NUMBER: 130
^SRF(      SURGERY
  Each entry in the SURGERY file contains information regarding a surgery case
  made up of an operative procedure, or multiple operative procedures for a
  patient. The file includes the information necessary for creating the
  Nurses' Intraoperative Report, Operation Report, and Anesthesia Report
```

```
Select VA FileMan Option:
```

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Routines

The following is the list of routines used in the Surgery package. This list excludes all initialization routines, protocol installation routines, and routines exported with patches that performed a one-time function. The first line of each routine contains a brief description of the general function of the routine. Use the Kernel *First Line Routine Print* [XU FIRST LINE PRINT] option to print a list of just the first line of each routine in the SR- namespace.

SR3P177	SRBL	SRBLOOD	SRCHL7A	SRCHL7U	SRCUSS	SRCUSS0	SRCUSS1
SRCUSS2	SRCUSS3	SRCUSS4	SRCUSS5	SRENSCS	SRHLDW	SRHLDW1	SRHLENV
SRHLMFN	SRHLOORU	SRHLORU	SRHLQRY	SRHLSCRN	SRHLU	SRHLUI	SRHLUO
SRHLUO1	SRHLUO2	SRHLUO3	SRHLUO4	SRHLUO4C	SRHLVOOR	SRHLVORU	SRHLVQRY
SRHLVU	SRHLVUI	SRHLVUI2	SRHLVUO	SRHLVUO1	SRHLVUO2	SRHLVUO4	SRHLVZIU
SRHLVZQR	SRHLVZSQ	SRHLXTMP	SRHLZIU	SRHLZQR	SRO1L	SRO1L1	SROA30
SROABCH	SROACAR	SROACAR1	SROACAT	SROACC	SROACC0	SROACC1	SROACC2
SROACC3	SROACC4	SROACC5	SROACC6	SROACCM	SROACCT	SROACL1	SROACL2
SROACLN	SROACMP	SROACMP1	SROACOD	SROACOM	SROACOM1	SROACOP	SROACPM
SROACPM0	SROACPM1	SROACPM2	SROACR1	SROACR2	SROACS	SROACTH	SROACTH1
SROADEL	SROADOC	SROADOC1	SROADX	SROADX1	SROADX2	SROAERR	SROAEX
SROAL1	SROAL11	SROAL2	SROAL21	SROALAB	SROALC	SROALCP	SROALCS
SROALCSP	SROALDP	SROALEC	SROALEN	SROALESS	SROALET	SROALL	SROALLP
SROALLS	SROALLSP	SROALM	SROALMN	SROALN1	SROALN2	SROALN3	SROALNC
SROALNO	SROALOG	SROALSL	SROALSS	SROALSSP	SROALST	SROALSTP	SROALT
SROALTTP	SROALTS	SROALTSP	SROAMAN	SROAMEAS	SROAMIS	SROAMIS1	SROANEST
SROANEW	SROANIN	SROANP	SROANP1	SROANR	SROANR0	SROANR1	SROANT
SROANTP	SROANTS	SROANTSP	SROAO	SROAOP	SROAOP1	SROAOP2	SROAOPS
SROAOSSET	SROAOTH	SROAOUT	SROAPAS	SROAPC	SROAPCA	SROAPCA0	SROAPCA1
SROAPCA2	SROAPCA3	SROAPCA4	SROAPIMS	SROAPM	SROAPR1A	SROAPR2	SROAPRE
SROAPRE1	SROAPRE2	SROAPRT1	SROAPRT2	SROAPRT3	SROAPRT4	SROAPRT5	SROAPRT6
SROAPRT7	SROAPS1	SROAPS2	SROAR	SROAR1	SROAR2	SROARET	SROARPT
SROASITE	SROASS	SROASS1	SROASSE	SROASSN	SROASSP	SROAT0P	SROAT0T
SROAT1P	SROAT1T	SROAT2P	SROAT2T	SROATCM	SROATCM1	SROATCM2	SROATCM3
SROATM1	SROATM2	SROATM3	SROATM4	SROATMIT	SROATMN1	SROATMNO	SROATT
SROATT0	SROATT1	SROATT2	SROAUTL	SROAUTL0	SROAUTL1	SROAUTL2	SROAUTL3
SROAUTL4	SROAUTLC	SROAWL	SROAWL1	SROAX	SROBLOD	SROCAN	SROCAN0
SROCANUP	SROCASE	SROCCAT	SROCD	SROCD0	SROCD1	SROCD2	SROCD3
SROCD4	SROCDX	SROCDX1	SROCDX2	SROCL1	SROCLAB	SROCMP	SROCMP1
SROCMP2	SROCMPD	SROCMPED	SROCMPL	SROCMPS	SROCNR	SROCNR1	SROCNR2
SROCODE	SROCOM	SROCOMP	SROCON	SROCON1	SROCOND	SROCPT	SROCPT0
SROCRAT	SROCOVER	SRODATE	SRODEL76	SRODELA	SRODEV	SRODIS	SRODIS0
SRODLA1	SRODLA2	SRODLAY	SRODLT	SRODLT0	SRODLT1	SRODLT2	SRODPT
SRODTH	SROERR	SROERR0	SROERR1	SROERR2	SROERRPO	SROES	SROESAD

SROESAD1	SROESAR	SROESAR0	SROESAR1	SROESAR2	SROESARA	SROESHL	SROESL
SROESNR	SROESNR0	SROESNR1	SROESNR2	SROESNR3	SROESNRA	SROESPR	SROESPR1
SROESPR2	SROESTV	SROESUTL	SROESX	SROESX0	SROESXA	SROESXP	SROFILE
SROFLD	SROGMTS	SROGMTS0	SROGMTS1	SROGMTS2	SROGTSR	SROHIS	SROICD
SROICDGT	SROICDL	SROICU	SROICU1	SROICU2	SROINQ	SROIIR	SROKEY
SROKEY1	SROKRET	SROLABS	SROLOCK	SROMED	SROMENU	SROMOD	SROMOD0
SROMOR	SROMORT	SRONAN	SRONAN1	SRONASS	SRONBCH	SRONEW	SRONIN
SRONITE	SRONON	SRONOP	SRONOP1	SRONOR	SRONOR1	SRONOR2	SRONOR3
SRONOR4	SRONOR5	SRONOR6	SRONOR7	SRONOR8	SRONP	SRONP0	SRONP1
SRONP2	SRONPEN	SRONRPT	SRONRPT0	SRONRPT1	SRONRPT2	SRONRPT3	SRONRPT4
SRONUR	SRONUR1	SRONUR2	SRONXR	SROOPRM	SROOPRM1	SROP	SROP1
SROPAC0	SROPAC1	SROPACT	SROPAT	SROPCE	SROPCE0	SROPCE0A	SROPCE0B
SROPCE1	SROPCEP	SROPCEU	SROPCEU0	SROPCEX	SROPDEL	SROPECS	SROPECS1
SROPER	SROPFSS	SROPLIS	SROPLIST	SROPLST1	SROPLSTS	SROPPEC	SROPREQ
SROPRI	SROPRI1	SROPRI2	SROPRIN	SROPRIO	SROPRI1	SROPROC	SROPRPT
SROPS	SROPS1	SROPSEL	SROPSN	SROQ	SROQ0	SROQ0A	SROQ30D
SROQADM	SROQD	SROQD0	SROQD1	SROQIDP	SROQIDP0	SROQL	SROQN
SROR	SRORACE	SRORAT1	SRORAT2	SRORATA	SRORATP	SRORATS	SROREA
SROREA1	SROREA2	SROREAS	SROREQ	SROREQ1	SROREQ2	SROREQ3	SROREQ4
SROREST	SRORESV	SRORET	SRORHRS	SRORHRS0	SRORIN	SRORTRN	SRORUT
SRORUT0	SRORUT1	SRORUT2	SROSCH	SROSCH1	SROSCH2	SROSNR	SROSNR1
SROSNR2	SROSPC1	SROSPEC	SROSPLG	SROSPLG1	SROSPLG2	SROSPSS	SROSRPT
SROSTAFF	SROSTOP	SROSUR	SROSUR1	SROSUR2	SROTHER	SROTIUD	SROTRIG
SROTRPT	SROTRPT0	SROUNV	SROUNV1	SROUNV2	SROUTC	SROUTED	SROUTIN
SROUTL	SROUTL0	SROUTL1	SROUTLN	SROUTUP	SROVAR	SROVER	SROVER1
SROVER2	SROVER3	SROWC	SROWC1	SROWC2	SROWC3	SROWL	SROWL0
SROWRQ	SROWRQ1	SROXPR	SROXR1	SROXR2	SROXR4	SROXREF	SROXRET
SRSAVG	SRSAVL	SRSAVL1	SRSBD1	SRSBDEL	SRSBLOK	SRSBOUT	SRSBUTL
SRSCAN	SRSCAN0	SRSCAN1	SRSCAN2	SRSCD	SRSCDS	SRSCDS1	SRSCDW
SRSCDW1	SRSCG	SRSCHAP	SRSCHC	SRSCHC1	SRSCHC2	SRSCHCA	SRSCHCC
SRSCHD	SRSCHD1	SRSCHD2	SRSCHDA	SRSCHDC	SRSCHK	SRSCHOR	SRSCHUN
SRSCHUN1	SRSCHUP	SRSCONR	SRSCOR	SRSCPT	SRSCPT1	SRSCPT2	SRSCLAP
SRSDIS1	SRSDISP	SRSDT	SRSGRPH	SRSIND	SRSKILL	SRSKILL1	SRSKILL2
SRSMREQ	SRSPUT0	SRSPUT1	SRSPUT2	SRSRBS	SRSRBS1	SRSRBW	SRSRBW1
SRSREQ	SRSREQUT	SRSRQST	SRSRQST1	SRSTCH	SRSTIME	SRSUP1	SRSUPC
SRSUPRG	SRSUPRQ	SRSUTIN	SRSUTL	SRSUTL2	SRSWL	SRSWL1	SRSWL10
SRSWL11	SRSWL12	SRSWL13	SRSWL14	SRSWL15	SRSWL2	SRSWL3	SRSWL4
SRSWL5	SRSWL6	SRSWL7	SRSWL8	SRSWL9	SRSWLST	SRSWREQ	SRTOVRF
SRTPASS	SRTPCOM	SRTPDONR	SRTPHRT1	SRTPHRT2	SRTPHRT3	SRTPHRT4	SRTPHRT5
SRTPHRT6	SRTPKID1	SRTPKID2	SRTPKID3	SRTPKID4	SRTPKID6	SRTPLIV1	SRTPLIV2
SRTPLIV3	SRTPLIV4	SRTPLIV5	SRTPLIV6	SRTPLIV7	SRTPLS	SRTPLST	SRTPLSTP
SRTPLUN1	SRTPLUN2	SRTPLUN3	SRTPLUN5	SRTPNEW	SRTPPAS	SRTPRACE	SRTPRH

SRTPRH1	SRTPRH2	SRTPRK	SRTPRK1	SRTPRK2	SRTPRK3	SRTPRLI	SRTPRLI1
SRTPRLI2	SRTPRLU	SRTPRLU1	SRTPRLU2	SRTPSITE	SRTPSS	SRTPTM1	SRTPTM2
SRTPTMIT	SRTPTRAN	SRTPUTL	SRTPUTL4	SRTPUTLC	SRTPVAN		

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Exported Options

This section contains information about the Surgery package options; first, the exported options are listed by name, and then they are provided alphabetically, with a description of the option.

Options Listed by Name

The following table contains a list of all of the options in the Surgery package, listed alphabetically by name.

SR ANESTH REPORTS	SR BLOOD PRODUCT VERIFICATION	SR BLOOD PRODUCT VERIFY AUDIT
SR CPT ACCURACY	SR CPT REPORTS	SR MANAGE REPORTS
SR NO ASSESSMENT REASON	SR NON-OR INFO	SR NON-OR REPORT
SR NORMAL HOURS	SR OR HOURS	SR OR UTIL
SR OR UTIL1	SR PURGE UTILIZATION	SR STAFFING REPORTS
SR SURGERY REQUEST	SR TRANSPLANT ASSESSMENT	SR TRANSPLANT ENTER/EDIT
SR TRANSPLANT PARAMETERS	SR UPDATE FILES	SR UPDATE SCHEDULE DEVIC
SR UTIL EDIT ROOM	SR VIEW HISTORICAL REPORTS	SRCODING EDIT
SRCODING MENU	SRCODING NURSE REPORT	SRCODING OP REPORT
SRCODING UPDATE/VERIFY MENU	SRHL DOWNLOAD INTERFACE FILES	SRHL DOWNLOAD SET OF CODES
SRHL INTERFACE	SRHL INTERFACE FLDS	SRHL PARAMETER
SRO CASES BY DISPOSITION	SRO CASES BY PRIORITY	SRO COMPLICATIONS MENU
SRO DEATH RELATED	SRO DEL MENU	SRO DELAY TIME
SRO ECS COMPLIANCE	SRO INTRAOP COMP	SRO M&M VERIFICATION REPORT
SRO PACKAGE MANAGEMENT	SRO PCE NOTRANS	SRO PCE STATUS
SRO POSTOP COMP	SRO QUARTERLY REPORT	SRO SURGICAL PRIORITY
SRO UPDATE CANCELLED CASE	SRO UPDATE RETURNS	
SRO-CHIEF REPORTS	SRO-LRRP	SRO-ROOM
SRO-UNLOCK	SROA ASSESSMENT LIST	SROA CARDIAC COMPLICATIONS
SROA CARDIAC ENTER/EDIT	SROA CARDIAC OPERATIVE RISK	SROA CARDIAC PROCEDURES
SROA CARDIAC RESOURCE	SROA CARDIAC-OUTCOMES	SROA CATHETERIZATION
SROA CLINICAL INFORMATION	SROA CODE ISSUE	SROA COMPLETE ASSESSMENT
SROA DEMOGRAPHICS	SROA ENTER/EDIT	SROA LAB
SROA LAB TEST EDIT	SROA LAB-CARDIAC	SROA MONTHLY WORKLOAD REPORT

SROA ONE-LINER UPDATE	SROA OPERATION DATA	SROA OUTCOMES
SROA PREOP DATA	SROA PRINT ASSESSMENT	SROA REPRINT LETTERS
SROA RISK ASSESSMENT	SROA TRANSMIT ASSESSMENTS	SROA TRANSMITTED IN ERROR
SROABRT	SROADOC	SROAMIS
SROACCT	SROANES MED	SROANES-D
SROANES	SROANP	SROARPT
SROANES1	SROASITE	SROATT
SROARSP	SROCHIEF	SROCNR
SROCAN	SROCOMP	SROCRAT
SROCODE	SRODISP	SROERR BACKFILL
SRODELA	SROKEY ENTER	SROKEY MENU
SROICU	SROMEN-ANES	SROMEN-ANES TECH
SROKEY REMOVE	SROMEN-M&M	SROMEN-OP
SROMEN-COM	SROMEN-OUT	SROMEN-PACU
SROMEN-OPINFO	SROMEN-REFER	SROMEN-REST
SROMEN-POST	SROMEN-VERF	SROMEN-START
SROMEN-STAFF	SROMM	SRNOP
SROMENU	SRNOP-EDIT	SRNOP-ENTER
SRNOP-ANNUAL	SRNOP-CODERS	SRNOP-RPT
SRNOPR	SROOPREQ	SROP REQ
SRONSR	SROPARAM	SROPER
SROPACT	SROPLIST1	SROPPC
SROPLIST	SROQ MENU	SROQ MISSING DATA
SROQ LIST OPS	SROQD	SROQIDP
SROQADM	SROREQ	SROREQV
SROREAS	SROSRPTS	SROSCH
SRORET	SROSNR	SROSPEC
SROSCHOP	SROSRPT	SROSTAFF
SROSRES	SROTRPT	SROUNV
SROSUR	SROW-DELETE	SROW-EDIT
SROVER	SROWAIT	SROWC
SROW-ENTER	SRSBDEL	SRSBOUT
SROWRQ	SRSCHD	SRSCHD1
SRSCHDC	SRSCHDC	SRSCHUP
SRSCHDA	SRSRBS	SRSREQCC
SRSCHPT	SRSUPRQ	SRSWL2
SRSUPC	SRTASK-NIGHT	S RTP ASSESSMENT LIST
SRSWREQ	S RTP PRINT ASSESSMENT	

Option Descriptions

This section provides an alphabetical listing of Surgery options, and includes a brief description of each option.

Abort/Cancel Operation

[SROABRT]

This option has been added as a new option under the Operation Menu [SROPER]. This new option will prompt the user for CASE ABORTED field (#18.5) (“NO” default) and the cancellation information fields (CANCEL DATE, CANCELLATION TIMEFRAME and PRIMARY CANCEL REASON). This menu option should only be used if the patient has been taken to the operating room and no incision has been made. If an incision is made, the case should be completed and the discontinued procedure indicated in the record. Cancellation of future surgical cases should not use this option

Admissions w/in 14 days of Out Surgery if Postop Occ

[SROQADM]

This option provides a list of patients with completed outpatient surgical cases which resulted in at least one postoperative occurrence AND a hospital admission within 14 days of the surgery.

Alert Coder Regarding Coding Issues

[SROA CODE ISSUE]

This option is used to provide the Risk Assessment Nurse Reviewers an electronic method to notify coders of potential coding issues or concerns. The message sent will include the basic Surgery case information and comments specifically added by the Nurse Reviewer.

Anesthesia AMIS

[SROAMIS]

This report generates the Anesthesia AMIS Report required by Central Office (C.O.).

Anesthesia Data Entry Menu

[SROANES-D]

This menu contains options used to enter or edit anesthesia related information.

Anesthesia Information (Enter/Edit)

[SROMEN-ANES]

This option is used to enter Anesthesia related information for a given case.

Anesthesia Menu

[SROANES1]

This menu contains the various options used to enter and display information related to the anesthesia technique and personnel.

Anesthesia Provider Report

[SROADOC]

This report provides information concerning the Anesthesia staff and technique for completed cases. It will sort the cases by the principal anesthetist.

Anesthesia Report

[SROARPT]

This option, locked by the SROANES security key, generates the Anesthesia Report containing anesthesia information for a surgical case. Before the report is electronically signed, the option displays information directly from the SURGERY file (#130) with the choice to edit the information on the report, to print/view the report from the beginning, and to sign the report electronically, if appropriate for the user. After the report is electronically signed, this option allows the signed report to be edited by updating the information in the SURGERY file (#130) and by creating addenda. This option also allows the report to be viewed or printed.

Anesthesia Reports

[SR ANESTH REPORTS]

This menu contains various Anesthesia Reports, including the Anesthesia AMIS Report and List of Anesthetic Procedures.

Anesthesia Technique (Enter/Edit)

[SRROMEN-ANES TECH]

This option is used to enter information for the anesthesia technique used. Depending on what technique was used, a different set of fields may be entered.

Anesthesia for an Operation Menu

[SROANES]

This menu contains the various Anesthesia related options used to input and display anesthesia staff and technique information.

Annual Report of Non-O.R. Procedures

[SRONOP-ANNUAL]

This option is used to generate the Annual Report of Non-OR Procedures. It will display the total number of procedures based on CPT code.

Annual Report of Surgical Procedures

[SROARSP]

This option is used to generate the Annual Report of Surgical Procedures. It will count procedures within Surgical Specialties.

Attending Surgeon Reports

[SROATT]

This option generates the Attending Surgeon Reports that displays staffing information for completed cases along with cumulative totals for each attending code. It can be sorted by surgical specialty and can be generated for an individual surgeon.

Blood Product Verification

[SR BLOOD PRODUCT VERIFICATION]

The user can access this option through the *Operation Menu* [SROPER] option. After scanning the blood unit ID, the software will check for an association with the patient identified. If there are multiple entries with the Unit ID scanned, these entries will be listed along with the Blood Component, Patient Associated, and Expiration Date. The user will then be prompted to select the one that matches the blood product about to be administered. If the selected product is not associated with the patient identified, the warning message will be displayed.

CPT Code Reports

[SR CPT REPORTS]

This menu contains reports based on CPT Codes. It includes the Cumulative Report of CPT Codes, Report of CPT Coding Accuracy, and the Report of Cases Missing CPT Codes.

CPT/ICD Coding Menu

[SRCODING MENU]

This menu provides functionality for reviewing operations and non-OR procedures and for editing operation and non-OR procedure CPT and ICD codes.

CPT/ICD Update/Verify Menu

[SRCODING UPDATE/VERIFY MENU]

This menu contains options to be used by those responsible for entering CPT and ICD codes for operations and non-OR procedures.

Cancel Scheduled Operation

[SRSCAN]

This option is used to cancel a scheduled operation on a given date. When a scheduled case is cancelled, a new request is automatically generated for that case on the same date.

Cardiac Procedures Operative Data (Enter/Edit)

[SROA CARDIAC PROCEDURES]

This option is used to enter or edit information related to cardiac procedures requiring cardiopulmonary bypass for the cardiac surgery risk assessments.

Cardiac Risk Assessment Information (Enter/Edit)

[SROA CARDIAC ENTER/EDIT]

This menu contains options to enter or edit assessment information for the cardiac risk assessments.

Chief of Surgery Menu

[SROCHIEF]

This menu contains the various options designed for use by the Chief of Surgery and his package coordinator.

Circulating Nurse Staffing Report

[SROCNR]

This report provides nurse-staffing information, sorted by the circulating nurses' name.

Clinical Information (Enter/Edit)

[SROA CLINICAL INFORMATION]

This option is used to enter the clinical information required for the cardiac surgery risk assessments.

Comments

[SROMEN-COM]

This option is used to enter general comments about a case.

Comparison of Preop and Postop Diagnosis

[SROPPC]

This report contains completed cases in which the principal preoperative and principal postoperative diagnoses are different.

Create Service Blockout

[SRSBOUT]

This option is used to block out times on the Operating Room Schedule by surgical specialty.

Cumulative Report of CPT Codes

[SROACCT]

This report displays the total number of each CPT code entered for the date range selected. It also breaks down the totals into two categories, principal procedures and other operative procedures.

Deaths Within 30 Days of Surgery

[SROQD]

This option lists patients who had surgery within the selected date range and who died within 30 days of surgery. Two separate reports are available through this option.

1. Total Cases Summary

This report can be printed in one of three ways.

- **All Cases:** The report lists all patients who had surgery within the selected date range and who died within 30 days of surgery, along with all of the patients' operations that were performed during the selected date range. These patients are included in the postoperative deaths totals on the Quarterly Report.
- **Outpatient Cases Only:** The report lists only the surgical cases that are associated with deaths that are counted as outpatient (ambulatory) deaths on the Quarterly Report.
- **Inpatient Cases Only:** The report lists only the surgical cases that are associated with deaths that are counted as inpatient deaths. Although the count of deaths associated with inpatient cases is not a part of the Quarterly Report, this report is provided to help with data validation.

2. Specialty Procedures

This report will list the surgical cases that are associated with deaths that are counted for the national surgical specialty linked to the local surgical specialty. Cases are listed by national surgical specialty.

Delay and Cancellation Reports

[SRO DEL MENU]

This menu contains various reports used to track delays and cancellations.

Delete Service Blockout

[SRSBDEL]

This option is used to delete service blockouts already existing on a schedule.

Delete a Patient from the Waiting List [SROW-DELETE]

This option is used to delete a patient currently on the surgery waiting list for a selected service.

Delete or Update Operation Requests [SRSUPRQ]

This option is used to delete, change the date, or update the information entered on a requested operation.

Display Availability [SRODISP]

This option provides a graph of the availability of operating rooms. Times that are unavailable will be marked by “X”s.

Edit Non-O.R. Procedure [SRONOP-EDIT]

This option allows the editing of information on the pre-selected non-OR procedure.

Edit a Patient on the Waiting List [SROW-EDIT]

This option is used to edit a patient already on the waiting list for a selected surgical specialty.

Enter/Edit Transplant Assessments [SR TRANSPLANT ENTER/EDIT]

This option is used to enter the information required for the transplant assessments.

*****This option is no longer used after Patch SR*3*184**

Enter Cardiac Catheterization & Angiographic Data [SROA CATHETERIZATION]

This option is used to enter or edit cardiac catheterization and angiographic information for cardiac surgery risk assessments.

Enter Irrigations and Restraints [SROMEN-REST]

This option is used to stuff in multiple restraints and positioning aids.

Enter PAC(U) Information [SROMEN-PACU]

This option is used to enter or edit recovery room scores and times.

Enter Referring Physician Information [SROMEN-REFER]

This option is used to enter the name, phone number, and address of the referring physician or institution.

Enter Restrictions for 'Person' Fields [SROKEY ENTER]

This option is used to enter restrictions on person fields. It will allow the user to add keys to existing entries in the PERSON FIELD RESTRICTION file (#131). If the field to be restricted has not already been entered in the PERSON FIELD RESTRICTION file (#131), the user may enter it along with the restricting keys through this option.

Enter a Patient on the Waiting List [SROW-ENTER]

This option is used to enter a patient on the waiting list for a selected surgical specialty.

Ensuring Correct Surgery Compliance Report [SRO ECS COMPLIANCE]

** Not used after patch SR*3*175 **

This option produces the Ensuring Correct Surgery Compliance Report. This report is a two-part report: (1) the compliance summary and (2) the list of non-compliant cases. The report is printed for a selected date range and may be sorted by surgical specialty. This report is a tool for reviewing compliance with the documentation process for ensuring correct surgery.

Exclusion Criteria (Enter/Edit) [SR NO ASSESSMENT REASON]

This option is used to flag major cases that will not have a surgery risk assessment due to certain exclusion criteria.

File Download [SRHL DOWNLOAD INTERFACE FILES]

This option is used to download Surgery interface files to the Automated Anesthesia Information System (AAIS). The process is currently being done by a screen capture to a file. In the future, this will be changed to a background task that can be queued to send Health Level 7 (HL7) master file updates.

Flag Drugs for Use as Anesthesia Agents [SROCODE]

This option is used to flag drugs for use as anesthesia agents. Only those drugs that are flagged will be available when selecting anesthesia agents.

Flag Interface Fields [SRHL INTERFACE FLDS]

This option allows the package coordinator to set the INTERFACE field in the SURGERY INTERFACE file (#133.2). The categories listed on the first screen correspond to entries in the SURGERY INTERFACE file (#133.2). These categories are listed in the Surgery Health Level 7 Interface Specifications document as being the OBR (Observation Request) text identifiers. Each identifier corresponds to several fields in the VistA Surgery package. This allows the user to control the flow of data between the VistA Surgery package and the ancillary system on a field-by-field basis.

The option lists each identifier and its current setting. To receive the data coming from the ancillary system for a category, set the flag to **R** for receive. To ignore the data, set the flag to **N** for not receive. To see a second underlying layer of OBX (Observation Information) text identifiers (fields in SURGERY file (#130) and their settings), set the OBR text identifier to **RR** for receive. The option will allow the user to toggle the settings for a range or for individual items.

Intraoperative Occurrences (Enter/Edit) [SRO INTRAOP COMP]

This option is used to enter or edit intraoperative occurrences. Every occurrence entered must have a corresponding perioperative occurrence category.

Key Missing Surgical Package Data [SROQ MISSING DATA]

This option generates a list of surgical cases performed within the selected date range that are missing key information. This report includes surgical cases with an entry in the TIME PAT IN OR field and does not include aborted cases.

Laboratory Interim Report [SRO-LRRP]

This option will print or display interim reports for a selected patient, within a given time period. The printout will go in inverse date order. This report will output all tests for the time period specified. If no results are available, the option will ask for another patient. This option will only print verified results and at present does not output the microbiology reports.

Laboratory Test Results (Enter/Edit) [SROA LAB]

This option is used to enter or edit laboratory information for an individual risk assessment.

Laboratory Test Results (Enter/Edit) [SROA LAB-CARDIAC]

This option is used to enter or edit laboratory information for an individual Cardiac risk assessment.

List Completed Cases Missing CPT Codes [SRSCPT]

The List Completed Cases Missing CPT Codes option generates a report of completed cases that are missing the Principal CPT code for a specified date range. It is important to note that only procedures that have CPT codes will be counted on the Annual Report of Surgical Procedures.

List Operation Requests [SRSRBS]

This option is designed to list requested cases, including those patients on the waiting list. It will print all future requests, sorted by ward location or surgical specialty.

List Scheduled Operations [SRSCD]

This option is designed to provide a short form listing of scheduled cases for a given date. It will sort by surgical specialty, operating room, or ward location and is designed to be displayed on the user's CRT.

List of Anesthetic Procedures [SROANP]

This option generates the List of Anesthetic Procedures for a specified date range.

List of Invasive Diagnostic Procedures [SROQIDP]

** Not used after patch SR*3*175 **

This option provides a report listing the completed surgical cases that were performed during the selected date range and that have a principal CPT code on the list defined by Surgical Service at VHA Headquarters as invasive diagnostic procedures.

List of Operations [SROPLIST]

This report contains general information for completed cases within a selected date range. It includes the procedure(s), surgical service, surgeons and case type.

List of Operations (by Postoperative Disposition) [SRO CASES BY DISPOSITION]

This report will list completed cases for a selected date range sorted by postoperative disposition and by surgical specialty.

List of Operations (by Surgical Priority) [SRO CASES BY PRIORITY]

This report will list completed cases for a specified date range sorted by the surgical priority (elective, emergent, etc.). The patient name, patient social security number (SSN), date of operation, operative procedure, and surgical specialty will be displayed for each case.

List of Operations (by Surgical Specialty) [SROPLIST1]

This report contains general information for completed cases within a selected date range, sorted by surgical specialty. It includes procedure(s), surgical specialty, surgeons and case type.

List of Operations Included on Quarterly Report [SROQ LIST OPS]

** Not used after patch SR*3*175 **

This option generates a list of completed operations that are included in the totals displayed on the Quarterly Report. The report displays the data fields that are checked by the Quarterly Report.

List of Surgery Risk Assessments

[SROA ASSESSMENT LIST]

This option is used to print the List of Surgery Risk Assessments reports.

List of Transplant Assessments

[SRTP ASSESSMENT LIST]

This option is used to print the List of Transplant Assessments. It will provide summary information for assessments within the sort parameters selected.

*****This option is no longer used after Patch SR*3*184**

List of Unverified Surgery Case

[SROUNV]

This option will generate a list of all completed surgery cases that have not had the procedure, diagnosis and complications verified.

M&M Verification Report

[SRO M&M VERIFICATION REPORT]

The *M&M Verification Report* option produces the M&M Verification Report, which may be useful for:

- reviewing occurrences and their assignment to operations
- reviewing death unrelated/related assignments to operations

The full report includes all patients who had operations within the selected date range who experienced intraoperative occurrences, postoperative occurrences or death within 90 days of surgery. The pre-transmission report is similar but includes operations with completed risk assessments that have not yet transmitted to the national database.

Full Report:

Information is printed by patient, listing all operations for the patient that occurred during the selected date range, plus any operations that may have occurred within 30 days prior to any postoperative occurrences or within 90 days prior to death. Therefore, this report may include some operations that were performed prior to the selected date range and, if printed by specialty, may include operations performed by other specialties. For every operation listed, the intraoperative and postoperative occurrences are listed. The report indicates if the operation was flagged as unrelated or related to death and the risk assessment type and status. The report may be printed for a selected list of surgical specialties.

Pre-Transmission Report:

Information is printed in a format similar to the full report. This report lists all completed risk assessed operations that have not yet transmitted to the national database and that have intraoperative occurrences, postoperative occurrences, or death within 90 days of surgery. The report includes any operations that may have occurred within 30 days prior to any postoperative occurrences or within 90 days prior to death. Therefore, this report may include some operations that may or may not be risk assessed, and, if risk assessed, may have a status other than 'complete'. However, every patient listed on this report will have at least one operation with a risk assessment status of 'complete'.

Maintain Surgery Waiting List

[SROWAIT]

This menu contains options to enter, edit, and delete patients on the surgery waiting list. It also includes an option to print the list.

Make Operation Requests

[SROOPREQ]

This option is used to “book” operations for a selected date. This request will in turn be scheduled for a specific operating room at a specific time on that date.

Make a Request for Concurrent Cases [SRSREQCC]

This option is used to request concurrent operative procedures.

Make a Request from the Waiting List [SRSWREQ]

This option is used to “book” a patient for surgery that has been entered on the waiting list. The operative procedure and specialty will be stuffed automatically.

Make Reports Viewable in CPRS [SR VIEW HISTORICAL REPORTS]

This option allows Operation Reports, Nurse Intraoperative Reports, Anesthesia Reports and Procedure Reports (Non-O.R.) for historical cases to be moved into TIU as "electronically unsigned" to make them viewable through the Computerized Patient Record System (CPRS).

Management Reports [SR MANAGE REPORTS]

This menu contains various management type reports used by the surgical service.

Management Reports [SRO-CHIEF REPORTS]

This menu contains various management reports to be generated by the Chief of Surgery.

Medications (Enter/Edit) [SROANES MED]

This option is used to enter or edit medications given during the operative procedure.

Monthly Surgical Case Workload Report [SROA MONTHLY WORKLOAD REPORT]

This option generates the Monthly Surgical Case Workload Report that may be printed and/or transmitted to the VASQIP national database.

Morbidity & Mortality Reports [SROMM]

This option generates the Morbidity and Mortality Reports to be used by the Chief of Surgery. This option includes the Mortality Report and Perioperative Occurrences Report.

Non-Cardiac Assessment Information (Enter/Edit) [SROA ENTER/EDIT]

This menu contains options used to enter and edit information related to individual risk assessments.

Non-O.R. Procedure Info [SR NON-OR INFO]

This option displays information on the selected non-OR procedure except the provider’s dictated summary. This information may be printed or reviewed on the screen.

Non-O.R. Procedures [SRONOP]

This menu contains options related to non-O.R. procedures.

Non-O.R. Procedures (Enter/Edit) [SRONOP-ENTER]

This option is used to enter, update, or delete information related to non-OR procedures.

Non-Operative Occurrences (Enter/Edit) [SROCOMP]

This option is used to enter or edit occurrences that are not related to surgical procedures.

Normal Daily Hours (Enter/Edit) [SR NORMAL HOURS]

This option is used to enter or edit the daily start and end times for each operating room. The information is used to set up the start and end times, for operating room utilization, on a weekly basis.

Nurse Intraoperative Report

[SRONRPT]

This option generates the Nurse Intraoperative Report, which contains surgical case information documented by nursing staff. Before the report is electronically signed, the option displays information directly from the SURGERY file (#130), giving the user choices to edit the information on the report, to print/view the report from the beginning, and to sign the report electronically if appropriate for the user. After the report is electronically signed, this option allows the signed report to be edited by updating the information in the SURGERY file (#130) and by creating addenda. This option also allows the signed report to be viewed or printed.

Nurse Intraoperative Report

[SRCODING NURSE REPORT]

Coders use this option to print the Nurse Intraoperative Report for an operation. If the report is not electronically signed, the option displays information directly from the SURGERY file (#130), giving the choice to edit the information on the report, to print/view the report from the beginning, and to sign the report electronically if appropriate for the user. After the report is electronically signed, this option allows the signed report to be edited by updating the information in the SURGERY file (#130) and by creating addenda. This option also allows the signed report to be viewed or printed. This report is not available for non-OR procedures.

Operating Room Information (Enter/Edit) [SRO-ROOM]

This option is used to enter or edit information pertinent to each operating room, including start and end times, and the cleaning time.

Operating Room Utilization (Enter/Edit)

[SR UTIL EDIT ROOM]

This option is used to enter or edit start and end times for operating rooms on a selected date.

Operating Room Utilization Report

[SR OR UTL1]

This report prints utilization information for a selected date range for all operating rooms or for a single operating room. The report displays the percent utilization, the number of cases, the total operation time and the time worked outside normal hours for each operating room individually and all operating rooms collectively.

The percent utilization is derived by dividing the total operation time for all operations (including total time patients were in OR, plus the cleanup time allowed for each case, plus one hour allowance for startup and shutdown daily for each OR that had at least one case) by the total OR functioning time as defined in the SURGERY UTILIZATION file (#131.8). The quotient is then multiplied by 100.

Operation

[SRMEN-OP]

This option is used to enter or edit information determined during the operative procedure.

Operation (Short Screen)

[SRMEN-OUT]

This screen is designed for surgical procedures performed on outpatient or ambulatory patients with local anesthesia.

Operation Information

[SRMEN-OPINFO]

This one page display allows the user to quickly reference primary information for a given case. There are no editing capabilities in this option.

Operation Information (Enter/Edit) [SROA OPERATION DATA]
This option is used to enter or edit information related to the operation.

Operation Menu [SROPER]
This menu contains the various options used to enter and display information for a selected surgical case.

Operation Report [SROSRPT]
This option generates the Operation Report. This report consists of the electronically signed operative summary (surgeon's dictation) stored in the Text Integration Utilities (TIU) software.

Operation Requests for a Day [SROP REQ]
This option will generate a list of requested operations for a specific date. There are two formats (long and short form) in which the requests may be printed.

Operation Startup [SROMEN-START]
This option is used to enter information prior to the actual start of the operation.

Operation/Procedure Report [SRCODING OP REPORT]
Coders use this option to print the Operation Report on an operation or the Non-O.R. Procedure Report on a non-OR procedure.

Operative Risk Summary Data (Enter/Edit) [SROA CARDIAC OPERATIVE RISK]
This option is used to enter or edit operative risk summary data for the cardiac surgery risk assessments.

Outcome Information (Enter/Edit) [SROA OUTCOMES]
This option is used to enter or edit postoperative information including complication outcomes, discharge diagnosis, and postoperative length of stay.

Outcome Information (Enter/Edit) [SROA CARDIAC-OUTCOMES]
** Not used after patch SR*3*184 **
This option is used to enter or edit outcome information for cardiac procedures.

Outpatient Encounters Not Transmitted to NPCD [SRO PCE NOTRANS]

Outpatient surgical and non-OR procedures that are filed as encounters in the Patient Care Encounters (PCE) package without an active, count clinic identified for each encounter are not transmitted to the National Patient Care Database (NPCD) as workload. This option may be used as a tool for identifying these encounters that represent uncounted workload so that corrective actions may be taken in the Surgery package to insure these procedures are associated with an active, count clinic. After corrections are made, these encounters may be re-filed with PCE to be transmitted to NPCD.

This option provides functionality to:

- Count and/or list surgical cases and non-OR procedures that have entries in PCE but have no matching entries in the OUTPATIENT ENCOUNTER file (#409.68) or have matching entries that are non-count encounters or encounters requiring action.
- Re-file with PCE the cases identified as having no matching entries in the OUTPATIENT ENCOUNTER file (#409.68) or having matching entries that are non-count encounters or encounters requiring action.

Both the report and the re-filing process may be run for OR surgical cases, non-OR procedures, or both. The report and the re-filing process may be run for a specific specialty or for all specialties, and may be run for a selected date range.

PCE Filing Status Report [SRO PCE STATUS]

This option provides a report of the PCE filing status of completed cases performed during the selected date range in accordance with the site parameter controlling PCE updates. If this site parameter is turned off, the report will show no cases. The report may be printed for OR surgical cases, non-OR procedures or both. Also, the report may be printed for all specialties or for a single specialty only.

This report is intended to be used as a tool in the review of Surgery case information that is passed automatically to PCE. The report uses 2 status categories:

- (1) FILED - This status indicates that case information has already been filed with PCE.
- (2) NOT FILED - This status indicates that the case information has not been filed with PCE. The case may or may not be missing information needed to file with PCE.

Two forms of the report are available: the long and the short. The long form uses a 132 column format and prints case information including the surgeon/provider, the attending, the specialty, the principal post-op diagnosis, and the principal procedure. If the PCE filing status is FILED, the CPT codes and ICD diagnosis codes will be printed. If the filing status is NOT FILED, information fields needed for PCE filing that do not contain data will be printed. At the end of the report, the number of cases in each PCE filing status will be printed, plus the number of CPT and ICD codes for cases with a status of FILED.

The short form uses an 80-column format and does not include surgeon/provider, attending, principal post-op diagnosis, CPT, or ICD code information. The totals printed at the end will show only the total cases for each status.

Patient Demographics (Enter/Edit) [SROA DEMOGRAPHICS]

This option is used to enter, edit or review risk assessment patient demographic information such as patient movement dates, length of postoperative hospital stay, race, in/out-patient status and other information related to this surgical episode.

Perioperative Complications (Enter/Edit) [SROA CARDIAC COMPLICATIONS]
This option is used to enter or edit perioperative complication information for cardiac surgery risk assessments.

Perioperative Occurrences Menu [SRO COMPLICATIONS MENU]
This menu contains options used to enter, edit, and display perioperative occurrence information. It is only accessible to those users that hold the SROCOMP security key.

Person Field Restrictions Menu [SROKEY MENU]
This menu contains options used to maintain restrictions applied to "person" type fields in files. One or more keys may be entered so that only those who have at least one of them may be entered in a particular field.

Post Operation [SROMEN-POST]
This option is used to enter or edit information obtained after the operation.

Postoperative Occurrences (Enter/Edit) [SRO POSTOP COMP]
This option is used to enter or edit information related to postoperative occurrences.

Preoperative Information (Enter/Edit) [SROA PREOP DATA]
The nurse reviewer uses this option to enter or edit preoperative assessment information.

Print 30 Day Follow-up Letters [SROA REPRINT LETTERS]
This option is used to print 30-day follow up letters. When using this option, letters can be printed for a specific assessment or all assessments within a selected date range.

Print Blood Product Verification Audit Log [SR BLOOD PRODUCT VERIFY AUDIT]
This option is used to print the KERNEL audit log for the Surgery *Blood Product Verification* [SRBLOOD PRODUCT VERIFICATION] option.

Print Surgery Waiting List [SRSWL2]
This option generates the long-form surgery waiting list for the surgical service(s) selected.

Print a Surgery Risk Assessment [SROA PRINT ASSESSMENT]
This option is used to print an entire Surgery Risk Assessment for an individual patient.

Print Transplant Assessment [SRTP PRINT ASSESSMENT]
This option is used to print a Surgery Transplant Assessment for an individual patient.

*****This option is no longer used after Patch SR*3*184**

Procedure Report (Non-O.R.) [SR NON-OR REPORT]
This option generates the Procedure Report (Non-O.R.). This report consists of the electronically signed procedure summary (provider's dictation) stored in the Text Integration Utilities (TIU) software.

Purge Utilization Information [SR PURGE UTILIZATION]
This option is used to purge utilization information for a selected date range. After selecting a starting date, the user may purge all utilization information for dates prior to, and including, that starting date.

Quarterly Report - Surgical Service

[SRO QUARTERLY REPORT]

**** Not used after patch SR*3*175 ****

This option will generate the Quarterly Report to be submitted to the Surgical Service, Central Office. The option also provides the flexibility to print the summary report for selected date ranges.

Quarterly Report Menu

[SROQ MENU]

**** Not used after patch SR*3*175 ****

This menu contains the option to generate the Quarterly Report and the associated options that may be helpful in validating information on the Quarterly Report.

Queue Assessment Transmissions

[SROA TRANSMIT ASSESSMENTS]

This option may be used to manually queue the VASQIP transmission process to run at a selected time. The VASQIP transmission process is a part of the nightly maintenance and cleanup process.

Remove Restrictions on 'Person' Fields

[SROKEY REMOVE]

This option is used to delete keys that have been assigned to a field to restrict entries. Using this option the user may delete one specific key, or all keys.

Report of CPT Coding Accuracy

[SR CPT ACCURACY]

This report prints cases sorted by the CPT code used for principal and other operative procedures. It is designed as a tool to check the accuracy of coding procedures.

Report of Cancellation Rates

[SROCRAT]

This option generates the Report of Cancellation Rates. The report can be printed for an individual Surgical Specialty, or the entire medical center. The report shows the following three rates:

- 1) The cancellation percentage of all scheduled cases, calculated as follows:
(TOTAL CANCELS / TOTAL SCHEDULED) x 100
- 2) The avoidable cancellation percentage of all scheduled cases, calculated as follows:
(TOTAL AVOIDABLE CANCELS / TOTAL SCHEDULED) x 100
- 3) The avoidable cancellation percentage of all cancelled cases, calculated as follows:
(TOTAL AVOIDABLE CANCELS / TOTAL CANCELS) x 100

Report of Cancellations

[SROCAN]

This report provides information for cases that have been scheduled and cancelled.

Report of Cases Without Specimens

[SROSPEC]

This report lists all completed cases in which there were no specimens taken from the operative site. It can be printed for an individual surgical specialty if desired.

Report of Daily Operating Room Activity

[SROPACT]

This report provides a list of cases started between 6:00 AM on the date selected and 5:59 AM of the following day for all operating rooms.

Report of Delay Reasons

[SROREAS]

This option prints the Report of Delay Reasons. This report will display the total number of times each reason was used for the date range selected. It can be sorted by surgical specialty or displayed for an individual surgical specialty.

Report of Delay Time [SRO DELAY TIME]
This report provides the total amount of delay time for each delay reason over a specified range of dates.

Report of Delayed Operations [SRODELA]
This report displays all cases that have been delayed. It will display both the delay cause and delay time.

Report of Non-O.R. Procedures [SRONOR]
This report lists chronologically Non-OR Procedures sorted by Medical Specialty, by provider, or by location.

Report of Non-O.R. Procedures [SRONOR-CODERS]
This report lists chronologically Non-OR Procedures sorted by Medical Specialty, by provider or by location.

Report of Normal Operating Room Hours [SR OR HOURS]
This report outputs the start time and the end time of the normal working hours for all operating rooms or for the selected operating room for each date within the specified date range. The total time of the normal working day is displayed for each operating room for each date.

Report of Returns to Surgery [SRORET]
This option generates a report listing information related to cases that have related surgical procedures within 30 days of the date of the operation.

Report of Surgical Priorities [SRO SURGICAL PRIORITY]
This report provides the total number of surgical cases for each Surgical Priority (i.e. Elective, Emergent, Urgent). It can be sorted by Surgical Specialty and printed for a specific specialty.

Report of Unscheduled Admissions to ICU [SROICU]
This report lists all unscheduled admissions to the ICU based on the requested (expected) postoperative care and actual postoperative disposition.

Request Operations [SROREQ]
This menu contains the various options used to make, delete, update and display requested operations.

Requests by Ward [SROWRQ]
This option prints request information for all wards, or a specific ward.

Reschedule or Update a Scheduled Operation [SRSCHUP]
This option is used to change the date, time or operating room for which a case is scheduled. It may also be used to update information entered when the case was requested or scheduled.

<i>Resource Data</i>	[SROA CARDIAC RESOURCE]
This option is used to enter, edit or review risk assessment cardiac patient demographic information such as hospital admission and discharge dates and other information related to this surgical episode.	
<i>Review Request Information</i>	[SROREQV]
This option is used to review or edit request information for an individual case.	
<i>Risk Model Lab Test (Enter/Edit)</i>	[SROA LAB TEST EDIT]
This option is used to allow the nurse to map VASQIP data in the Risk Model Lab Test (#139.2) file.	
<i>Schedule Anesthesia Personnel</i>	[SRSCHDA]
This option is used to schedule anesthesia personnel for surgery cases.	
<i>Schedule Operations</i>	[SROSCHOP]
This menu contains the various options used to schedule, update, cancel and display scheduled operations.	
<i>Schedule Requested Operations</i>	[SRSCHD1]
This option is used to schedule cases that have been previously “booked” for the selected date.	
<i>Schedule Unrequested Concurrent Cases</i>	[SRSCHDC]
This option is used to schedule concurrent cases that have not been requested.	
<i>Schedule Unrequested Operations</i>	[SROSRES]
This option is used to schedule cases that have not been previously “booked.” The user will be asked to enter some initial information regarding this case as well as the operating room and date/time for it to be scheduled.	
<i>Schedule of Operations</i>	[SROSCH]
This option generates the Operating Room Schedule to be used by the OR nurses, surgeons and anesthesiologists.	
<i>Scrub Nurse Staffing Report</i>	[SROSNR]
This report contains general information for completed cases, sorted by the Operating Room Scrub Nurse.	
<i>Surgeon Staffing Report</i>	[SROSUR]
This report prints completed cases, sorted by the surgeon and his role (i.e. attending, first assistant) for each case. It includes the procedure, diagnosis and operation date/time.	
<i>Surgeon's Verification of Diagnosis & Procedures</i>	[SROVER]
This option is used to verify that the procedure(s), diagnosis and complications are correct for the case. It is intended for use by the Surgeon, not the OR nurses.	
<i>Surgery Interface Management Menu</i>	[SRHL INTERFACE]
This menu contains options that allow the user to set up certain interface parameters that control the processing of HL7 messages. The interface adheres to the Health Level 7 (HL7) protocol and forms the basis for the exchange of health care information between the VistA Surgery package and any ancillary system.	

Surgery Menu

[SROMENU]

This is the main menu for the Surgery package.

Surgery Nightly Cleanup and Updates

[SRTASK-NIGHT]

This option is queued to run daily. It initiates a number of background tasks to clean up the surgery database and update all appropriate information. Among the tasks done are calculation of average procedure times, cleanup of outstanding requests, update expected start and end times for operating rooms and surgical specialties, and locking cases.

Surgery Package Management Menu

[SRO PACKAGE MANAGEMENT]

This menu contains options used to manage the Surgery package. It includes options to maintain site-configurable information within the package.

Surgery Reports

[SRORPTS]

This menu contains the various reports used in the Surgery package. Those reports that are restricted to the Chief of Surgery do not appear within this menu.

Surgery Request

[SR SURGERY REQUEST]

This protocol allows the entry and editing of operation requests through OE/RR.

Surgery Risk Assessment - Site Update Server

[SROASITE]

This server is used to update Surgery Risk Assessments that have been successfully transmitted to the Surgery Risk Assessment National Database. This server updates two fields, ASSESSMENT STATUS (#235) and DATE TRANSMITTED (#260). These fields are updated at the site from the message sent by the database servers only if the messages were processed successfully into the national database.

Surgery Risk Assessment Menu

[SROA RISK ASSESSMENT]

This menu contains options used to create, maintain, and transmit surgery risk assessments.

Surgery Site Parameters (Enter/Edit)

[SROPARAM]

This option is used to create or update local site parameters for the Surgery package.

Surgery Staffing Reports

[SR STAFFING REPORTS]

This menu contains surgical staffing reports for surgeons and nurses.

Surgery Transplant Assessment - Site Update Server

[SRTPSITE]

This server is used to update Surgery Transplant Assessments that have been successfully transmitted to the Surgery Risk Assessment National Database at the Chicago ISC. This server updates two fields, ASSESSMENT STATUS (#181) and DATE TRANSMITTED (#184). These fields are updated at the site from the message sent by the database servers at Chicago only if the messages were processed successfully into the national database.

Surgery Utilization Menu

[SR OR UTIL]

This menu contains various Operating Room Utilization reports.

Surgical Nurse Staffing Report

[SRONSR]

This option generates the Surgical Nurse Staffing Report for a specified date range.

Surgical Staff

[SRROMEN-STAFF]

This option is used to enter the staff (surgeons, nurses, anesthesiologists) for a given case. It includes everyone in the operating room for this case.

Table Download

[SRHL DOWNLOAD SET OF CODES]

This option downloads the SURGERY file (#130) set of codes to the Automated Anesthesia Information System (AAIS). This process is currently being done by a screen capture to a file. In the future, this will be changed to a background task that can be queued to send HL7 master file updates.

Time Out Verified Utilizing Checklist

[SRROMEN-VERF]

This option is used to enter information related to Time Out Verified Utilizing Checklist.

Tissue Examination Report

[SROTRPT]

This option is used to generate the Tissue Examination Report that contains culture and specimens sent to the laboratory.

Transplant Assessment Menu

[SR TRANSPLANT ASSESSMENT]

** Not used after patch SR*3*184 **

This menu contains options to enter or edit transplant assessment information, print transplant assessments, list transplant assessments, and manage transplant assessments.

Transplant Assessment Parameters (Enter/Edit)

[SR TRANSPLANT PARAMETERS]

This option is used to update local site parameters for the Surgery Transplants Assessment module. Each site can identify which type of organ transplant is performed or assessed by their Transplant Coordinator. Identification of the type of organ transplants done at your facility will streamline selections when doing data entry.

*****This option is no longer used after Patch SR*3*184**

Unlock a Case for Editing

[SRO-UNLOCK]

The Chief of Surgery (or a person designated by the Chief) uses this option to unlock a case that has been completed and locked.

Update 1-Liner Case

[SROA ONE-LINER UPDATE]

This option may be used to enter missing data for the 1-liner cases (major cases marked for exclusion from assessment, minor cases and cardiac assessed cases that transmit to the VASQIP database as a single line or two of data). Cases edited with this option will be queued for transmission to the VASQIP database at Chicago.

Update Assessment Completed/Transmitted in Error [SROA TRANSMITTED IN ERROR]

This option is used to update the status of a completed or transmitted assessment that has been entered in error. The status will change from "COMPLETED" or "TRANSMITTED" to "INCOMPLETE" so that editing may occur.

Update Assessment Status to 'COMPLETE'

[SROA COMPLETE ASSESSMENT]

This option is used to update the status of a risk assessment entry from "INCOMPLETE" to "COMPLETE." Only completed assessments can be transmitted.

Update Cancellation Reason

[SRSUPC]

This option is used to update the cancellation date and reason previously entered for a selected surgical case.

Update Cancelled Case [SRO UPDATE CANCELLED CASE]
This option allows the Chief of Surgery to update information on a cancelled case.

Update Interface Parameter Field [SRHL PARAMETER]
This option may be used to edit the site parameter that determines which Surgery HL7 interface is used, the interface compatible with VistA HL7 V. 1.6 or the older one compatible with VistA HL7 V. 1.5.

If applications communicating with the Surgery HL7 interface must use the interface designed for use with HL7 V. 1.5, enter YES. Otherwise, enter NO or leave this field blank.

Update O.R. Schedule Devices [SR UPDATE SCHEDULE DEVICE]
This option is used to update the list of O.R. Schedule Devices in the SURGERY SITE PARAMETERS file (#133).

Update Operations as Unrelated/Related to Death [SRO DEATH RELATED]
This option is used to update the status of operations performed within 90 days prior to death as unrelated or related to death, allowing comments to be entered to further document the review of death.

Update Site Configurable Files [SR UPDATE FILES]
This option is used to add, edit, or delete information in the site configurable files contained within the Surgery package.

File entries that are not to be used should be made inactive and should not be deleted from the file.

Update Staff Surgeon Information [SROSTAFF]
This option allows the designation of a user as a staff surgeon by assigning the security key "SR STAFF SURGEON." The Annual Report of Surgical Procedures counts cases performed by holders of this security key as performed by "STAFF." All other cases are counted as performed by 'RESIDENT'.

Update Status of Returns Within 30 Days [SRO UPDATE RETURNS]
This option is used to update the status of Returns to Surgery within 30 days of a surgical case.

Update/Verify Procedure/Diagnosis Codes [SRCODING EDIT]
This option is used to edit and/or verify the final CPT and final ICD codes for an operation or non-OR procedure.

View Patient Perioperative Occurrences [SROMEN-M&M]
This option displays perioperative occurrence information for a given case.

Wound Classification Report [SROWC]
This option generates a report for the selected date range showing the total number of surgical cases with each of the various wound classifications broken down by surgical service.

Templates

This section lists the templates provided with the Surgery package.

Input Templates

The following are input templates included with the Surgery package.

SREQUEST file #130
SREQUEST-ICD10 file #130
SRISK-MISC file #130
SRISK-NOCARD file #130
SRISK-NOCOMP file #130
SRNON-OR file #130
SRNORRPT file #130
SRO-NOCOMP file #130
SROANES-AMIS file #130
SROARPT file #130
SROCOMP file #130
SROMEN-ANES file #130
SROMEN-ANES TECH file #130
SROMEN-COMP file #130
SROMEN-OPER file #130
SROMEN-OUT file #130
SROMEN-PACU file #130
SROMEN-POST file #130
SROMEN-REFER file #130
SROMEN-STAFF file #130
SROMEN-START file #130
SROMEN-VERF file #130
SROMEN-VERF1 file #130
SROMEN-VERF2 file #130
SRONRPT file #130
SRONRPT1 file #130
SRONRPT2 file #130
SROSRPT file #130
SROTHER file #130
SROVER file #130
SRPARAM file #133
SRSCHED-UNREQUESTED file #130
SRSCHED-UNREQUESTED-ICD10 file #130
SRSREQV file #130
SRSRES-ENTRY file #130
SRSRES-ENTRY1 file #130
SRSRES-SCHED file #130
SRSRES-SCHED1 file #130
SRSRES1 file #130
SRSRES2 file #130
SROALAB file #139.2
SR TRANSPLANT file #133

Sort Template

One sort template is included:

SR BLOOD PRODUCT VERIFICATION file #19.081

Editing Input Templates

Input templates are used by package options that use the Surgery Screen Server to define the fields that are displayed for editing. These input templates may themselves be edited to add fields, to remove fields or to rearrange field display order. Below is a list of options used for entering operation or non-OR procedure information and the associated input templates used by the screen server.

Option	Template
Surgical Staff [SROMEN-STAFF]	SROMEN-STAFF
Operation Startup [SROMEN-START]	SROMEN-START
Operation [SROMEN-OP]	SROMEN-OPER
Operation (Short Screen) [SROMEN-OUT]	SROMEN-OUT
Post Operation [SROMEN-POST]	SROMEN-POST
Enter PAC(U) Information [SROMEN-PACU]	SROMEN-PACU
Edit Non-O.R. Procedure [SRNOP-EDIT]	SRNON-OR

Globals in the Surgery Package

The Surgery package stores data in the following globals.

^SRF
^SRO
^SRP
^SRS
^SRT
^SRU

Journaling Globals

The globals SR* are recommended for journaling.

(This page included for two-sided copying.)

Archiving and Purging

This section describes the archiving and purging processes related to the Surgery package.

Archiving

Surgery V. 3.0 does not provide for the archiving of data.

Purging

The Surgery package contains the *Surgery Nightly Cleanup and Updates* [SRTASK-NIGHT] option, which should be tasked to run nightly for purging outstanding requests that have not been acted upon and are older than 14 days, based upon the requested date of operation. The Surgery package also includes an option within the Utilization module for purging information from the SURGERY UTILIZATION file (#131.8) prior to the selected date.

(This page included for two-sided copying.)

Callable Routines

The following routines have callable entry points and are available to other packages through Database Integration Control Agreements (ICRs).

SROANEST

Entry point: **ANESTIME**

This call returns an array containing multiple anesthesia time records, total anesthesia time in minutes, Surgical case number, Principal Diagnosis Code (internal value), Service Connected and Environmental Indicators.

Input variable: DFN - The patient's IEN in the PATIENT file (#2).

SRFDATE - the start date of operation to begin looking for matching surgical cases.

SRTDATE - the end date of operation to begin looking for matching surgical cases.

SROESL

Entry point: **CASLIST(SDFN,SIDN)**

This call generates a list of all signed Surgery reports of a given Report Identifier type for that patient.

Input variable: SRDFN - The patient's IEN in the PATIENT file (#2).

SIDN – The identifier for the report.

SROGMTS

Entry point: **HS(IEN)**

This call extracts Surgery Reports from Surgery/TIU globals.

Input variable: IEN - The Internal Entry Number of the SURGERY file (#130).

SROGTSR

Entry point: **GET(SRGY,SRDFN)**

This call returns an array containing a list of the patient's operations.

Parameter list: SRGY - the name of the array

SRDFN - the patient's IEN in the PATIENT file (#2)

SROPRPT

Entry point: **SROPRPT**

This call displays the Operation Report.

Input variable: The variable SRTN (which identifies the surgical case) may be defined before making the call. If the variable SRTN is not defined when the call is made, the user will be prompted to select a patient and operation.

SROPS

Entry point: **SROPS**

This call provides patient lookup and operation selection.

SROSPLG

Entry point: **SROSPLG**

This call was designed specifically for the surgical pathology module of the LABORATORY package.

Input variables: LRDFN - the patient's IEN in the LAB DATA file (#63)
LRSS - the laboratory subscript for surgical pathology ("SP")
LRI - the inverse date subscript the LAB DATA file (#63)

SROESTV

Entry point: **LIST(SRG,SRDFN,SRSDT,SREDT,SRMAX,SRLDOC)**

This call returns a list of completed cases between the start and end dates along with the associated documents.

Parameter list: SRG- return array
SRDFN - pointer to patient file (DFN)
SRSDT - (optional) start date (earlier date)
SREDT - (optional) end date (later date)
SRMAX - (optional) maximum number of cases to return
SRLDOC - (optional) if 0, do not list documents

SROSRPT

Entry point: **OPTOP(SRTN,SRLAST,SRG)**

This call returns Optop information on a surgical case.

Input variable: SRTN - The IEN of the case in the SURGERY file (#130).
Parameter list: SRLAST – determines if the Optop will be returned with a summary status at the end.
SRG (optional) -- return array

SRSCLM

Entry point: **MSG**

The Communication Service Library (CSL) is given permission to call SRSCLM to pass information about surgery cases that the Supply Processing and Distribution (SPD) was unable to process due to problems with the HL7 transaction transmitted to SPD.

Input variable: CSLCASE -- The IEN of the case in the Surgery file #130.

CSLTEXT – This is the reason behind CSL/SPD rejecting the Surgery case information.

SROTIUD

Entry point: **OS(SRTN)**

This entry point deletes the existing pointer in the TIU OPERATIVE SUMMARY field (#1000) of the Surgery file (#130) when a document is deleted, and it will then call the TIU API to generate a new Stub entry in TIU for that case.

Parameter list: SRTN - IEN in SURGERY file (#130)

Entry point: **NON(SRTN)**

This entry point deletes the existing pointer in the TIU PROCEDURE REPORT (NON-OR) field (#1002) of the Surgery file (#130) when a document is deleted, and it will then call the TIU API to generate a new Stub entry in TIU for that case.

Parameter list: SRTN - IEN in SURGERY file (#130)

External Relations

This section lists the packages needed to run the Surgery package, and also the calls that are made by the Surgery package to external routines.

Packages Needed to Run Surgery

Surgery V. 3.0 relies minimally on the following external packages. This software is not included in this package and must be installed before Surgery V. 3.0 is completely functional.

Package	Minimum Version Needed
Kernel	8.0
VA FileMan	22.0
MailMan	8.0
PIMS	5.3
Laboratory	5.2
Inpatient Medications	4.5
Pharmacy Data Management	1.0
Patient Care Encounter	1.0
Health Level Seven	1.5
Order Entry/Results Reporting	3.0
Text Integration Utilities	1.0
Authorization/Subscription Utility	1.0
Vitals	5.0

Calls Made by Surgery

Surgery V. 3.0 makes calls to the following external routines:

Routine	Entry Points Used
%DT	^%DT, DD
%DTC	^%DTC, C, DW, H, NOW
%RCR	%XY
%ZIS	%ZIS, HOME
%ZISC	^%ZISC
%ZISS	ENDR, KILL
%ZOSV	\$\$SEC, T0, T1
%ZTLOAD	^%ZTLOAD, \$\$\$
AUPNVSIT	ADD, SUB
CSLSUR1	\$\$BLDSEG
DDIOL	EN
DGPMDDCF	WIN
DGPTFAPI	RPC

Routine	Entry Points Used
DGRPDB	DIS
DGUTL3	\$\$BADADR
DGUTL4	\$\$PTR2CODE
DIC	^DIC,LIST
DICN	WAIT, FILE, YN
DICRW	DT
DID	\$\$GET1,FIELD
DIE	^DIE,CHK,FILE,HELP,UPDATE,WP
DIFROM0	Q
DII	OS
DIK	^DIK, DIE, EN, EN1, ENALL, IX1, IXALL
DIKZ	EN
DILFD	\$\$EXTERNAL
DINIT	N
DIP	EN1
DIQ	\$\$GET1 ,D, EN, GETS, Y
DIQ1	EN
DIR	^DIR
DITR	I
DIU	DI
DIU2	EN
DIWE	EN
DIWP	^DIWP
DIWW	^DIWW
GMRADPT	^GMRADPT
GMRVUTL	EN6
GMRVUT0	EN1
HLFNC	\$\$FMDATE, \$\$FMNAME, \$\$HLDATE
HLFNC2	INIT
HLMA	GENERATE
HLMA1	GENACK
HLTRANS	EN, EN1, INIT, KILL
ICDCODE	\$\$ICDDX
ICPTAPIU	COPY
ICPTCOD	\$\$CPT, \$\$CPTD
ICPTMOD	\$\$MOD, \$\$MODP
LRBLB	BAR
LRBLBU	^LRBLBU
MPIF001	\$\$GETICN

Routine	Entry Points Used
ORVOM	DOT
ORX	FILE, RETURN, ST
PSIVACT	DCOR
PSSGIU	END, ENS
PSS50	DATA
PSSDI	DIC
PSSHUIDG	DRG
PXAPI	\$\$DATA2PCE, \$\$DELVFILE
SDCO21	CL
TIULC1	\$\$DOCCLASS
TIULG	\$\$PRNTGRP, \$\$PRNTMTHD, \$\$PRNTNBR
TIULQ	EXTRACT
TIUPUTU	\$\$WHATITLE
TIUSROI	ES
TIUSRVLR	GETDOCS
TIUSRVP	DELETE, FILE, MAKE, MAKEADD, UPDATE
TIUSRVP1	\$\$CANDEL, DOCPARM, TGET
USRLM	\$\$ISA
VADPT	ADD ,DEM, ELIG, IN5, INP, KVA ,OERR, OPD, SVC
VAFHLPID	\$\$EN
VASITE	\$\$NAME, \$\$SITE
VBECA1B	AVUNIT
VPRSR	DEL, NEW, UPD
XLFDT	\$\$FMADD, \$\$FMDIFF, \$\$FMTE ,\$\$HTFM, \$\$NOW
XLFSTR	\$\$LJ, \$\$UP
XMA1C	REMSBMSG
XMBGRP	\$\$MG
XMD	^XMD
XPAR	PUT
XPDUTL	\$\$NEWCP, \$\$PARCP, \$\$PATCH, \$\$UPCP, \$\$VERSION, BMES, MES
XQALERT	DELETEA, SETUP
XUPARAM	\$\$KSP
XUSESIG	SIG

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Database Integration Control Registrations

The Surgery package has Database Integration Control Registrations (ICRs) with other packages. For complete information regarding ICRs, please refer to the *DBA* [DBA] option on FORUM and then the *INTEGRATION CONTROL REGISTRATIONS* [DBA INTEGRATION AGREEMENTS] option.

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Internal Relations

All of the Surgery package options are designed to be standalone. Each option requires the use of the package-wide variable array SRSITE that is set as users enter the package. Locally created menus containing Surgery package options run quicker if the following exit action and entry action are included in the OPTION file (#19).

```
EXIT ACTION: D EXIT^SROVAR  
ENTRY ACTION: D ^SROVAR
```

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Package-Wide Variables

The following Surgery namespaced local variables are package-wide variables.

Variable	Description
SRSITE	This variable is the internal file number of the site in the SURGERY SITE PARAMETERS file (#133).
SRSITE("AML")	This variable represents the mail code for the institution's anesthesia department as defined in the SURGERY SITE PARAMETERS file (#133).
SRSITE("DIV")	This variable represents the division selected. It is the institution number in the INSTITUTION file (#4).
SRSITE("IV")	This variable will equal 1 if IV orders are deleted upon admission to surgery. The value of this variable is derived from the SURGERY SITE PARAMETERS file (#133).
SRSITE("NRPT")	This variable will equal 1 if the Nurse Intraoperative Report is to print all field titles. The value of this variable is derived from the SURGERY SITE PARAMETERS file (#133).
SRSITE("OPTION")	This variable holds the internal file number of the entry option into the Surgery package. When this option is exited, the package-wide variables will be killed.
SRSITE("REQ")	This variable represents the cut-off time for making operation requests as defined in the SURGERY SITE PARAMETERS file (#133).
SRSITE("RISK")	This variable represents whether the Surgery Risk Assessment Module is being used. The value of this variable is derived from the SURGERY SITE PARAMETERS file (#133).
SRSITE("SITE")	This variable represents the name of the institution in the INSTITUTION file (#4).
SRTN	This variable is the internal entry number in the SURGERY file (#130). It also serves as the case number.

The SRSITE array is set when the user enters the Surgery package and is killed upon exit from the package. This array stores values from the SURGERY SITE PARAMETERS file (#133) that may be referenced by the package.

SRTN is set when a surgery case is selected for editing or reviewing, and is killed or reset when another case is selected or when the user exits the menu or exits the package.

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Security Guide

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Contingency Planning

Sites using the Surgery package should develop a local contingency plan to be used in the event of product problems in a live environment. The facility contingency plan must identify the procedure for maintaining functionality provided by this package in the event of system outage. Field Station Information Security Officers (ISOs) can obtain further assistance from their Network Information Security Officers.

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Interfacing

This section describes the interface of the Surgery package to the Automated Anesthesia Information Systems.

Interface for Automated Anesthesia Systems

The Surgery package includes a generic interface to the Automated Anesthesia Information Systems. This interface is used by the VistA Surgery package in communicating with any Automated Anesthesia Information Systems or ancillary system for the purpose of exchanging health care information. The interface strictly adheres to the HL7 protocol and avoids using Z type segments to the protocol whenever possible. A detailed description of this interface can be found in the *Surgery Anesthesia Interface Specifications* on the VDL at <http://www.va.gov/vdl/> under the Surgery section.

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Electronic Signatures

With the implementation of the changes resulting from the Surgery Electronic Signature for Operative Reports project, which includes patch SR*3*100, the user is provided with the ability to electronically sign operative reports contained within the VistA Surgery package. Additionally, the Surgery Electronic Signature for Operative Reports project provides the user the ability to view these signed reports using CPRS by storing them within TIU. This new functionality is applied to the Surgeon's Operation Report, the Nurse Intraoperative Report, the Procedure Report (Non-O.R.), and the Anesthesia Report.

Electronic signatures may be established by using the *Electronic Signature Code Edit* [XUSESIG] option. In Kernel V. 8.0, the *Electronic Signature Code Edit* [XUSESIG] option has been tied to the Common Options, under the *User's Toolbox* [XUSERTOOLS] submenu option for easy access by all users.

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Menus

Screen displays can vary among different sites and the user may not see the data on the terminal exactly as the data is shown in this manual. Although screens are subject to modification, the major menu options, as they appear in this manual, are fixed and not subject to modifications except by the package developer. The following is a list of the major menu options and their sub-options, in the order in which they appear. A restricted option (the Chief of Surgery's menu, for example) will not display if the user does not have the proper security clearance.

Maintain Surgery Waiting List

Locked with **SROWAIT**

- Print Surgery Waiting List
- Enter a Patient on the Waiting List
- Edit a Patient on the Waiting List
- Delete a Patient from the Waiting List

Request Operations

- Display Availability
- Make Operation Requests
- Delete or Update Operation Requests
- Make a Request from the Waiting List
- Make a Request for Concurrent Cases
- Review Request Information
- Operation Requests for a Day
- Requests by Ward
- List Op Requests by Surgeon or Attending

List Operation Requests

Schedule Operations

- Display Availability
- Schedule Requested Operations
- Schedule Unrequested Operations
- Schedule Unrequested Concurrent Cases
- Reschedule or Update a Scheduled Operation
- Cancel Scheduled Operation
- Update Cancellation Reason
- Schedule Anesthesia Personnel
- Create Service Blockout
- Delete Service Blockout
- Schedule of Operations

Locked with **SROSCH**
Locked with **SROSCH**
Locked with **SROSCH**
Locked with **SROSCH**
Locked with **SROSCH**
Locked with **SROSCH**
Locked with **SROSCH**
Locked with **SROSCH**
Locked with **SROSCH**

List Scheduled Operations

Operation Menu

Locked with **SROPER**

Operation Information
Surgical Staff
Operation Startup
Operation
Post Operation
Enter PAC(U) Information
Operation (Short Screen)
Time Out Verified Utilizing Checklist
Surgeon's Verification of Diagnosis & Procedures
Anesthesia for an Operation Menu
 Anesthesia Information (Enter/Edit)
 Anesthesia Technique (Enter/Edit)
 Medications (Enter/Edit)
 Anesthesia Report
 Schedule Anesthesia Personnel
Operation Report
Anesthesia Report
Nurse Intraoperative Report
Tissue Examination Report
Enter Referring Physician Information
Enter Irrigations and Restraints
Medications (Enter/Edit)
Abort/Cancel Operation
Blood Product Verification

Locked with **SROEDIT**
Locked with **SROANES**
Locked with **SROANES**
Locked with **SROANES**

Locked with **SROANES**

Locked with **SROANES**

Locked with **SROEDIT**
Locked with **SROEDIT**

Anesthesia Menu

Locked with **SROANES**

Anesthesia Data Entry Menu
 Anesthesia Information (Enter/Edit)
 Anesthesia Technique (Enter/Edit)
 Medications (Enter/Edit)
Anesthesia Report
Schedule Anesthesia Personnel

Locked with **SROANES**
Locked with **SROANES**
Locked with **SROANES**

Locked with **SROANES**

Perioperative Occurrences Menu

Locked with **SROCOMP**

Intraoperative Occurrences (Enter/Edit)
Postoperative Occurrences (Enter/Edit)
Non-Operative Occurrences (Enter/Edit)
Update Status of Returns Within 30 Days
Morbidity & Mortality Reports

Locked with **SROSURG**

Non-O.R. Procedures

Locked with **SROPER**

- Non-O.R. Procedures Menu (Enter/Edit)
 - Edit Non-O.R. Procedure
 - Anesthesia Information (Enter/Edit)
 - Medications (Enter/Edit)
 - Anesthesia Technique (Enter/Edit)
 - Procedure Report (Non-O.R.)
 - Tissue Examination Report
 - Non-OR Procedure Information
- Annual Report of Non-O.R. Procedures
- Report of Non-O.R. Procedures

Locked with **SROPER**

Locked with **SROREP**

Locked with **SROREP**

Comments

Locked with **SROPER**

Surgery Reports

Locked with **SROREP**

- Management Reports
 - Schedule of Operations (132 CRT)
 - Annual Report of Surgical Procedures
 - List of Operations
 - List of Operations (by Postoperative Disposition)
 - List of Operations (by Surgical Specialty)
 - List of Operations (by Surgical Priority)
 - Report of Surgical Priorities
 - Report of Daily Operating Room Activity
 - PCE Filing Status Report
 - Outpatient Encounters Not Transmitted to NPCD
- Surgery Staffing Reports
 - Attending Surgeon Reports
 - Surgeon Staffing Report
 - Surgical Nurse Staffing Report
 - Scrub Nurse Staffing Report
 - Circulating Nurse Staffing Report
- CPT Code Reports
 - Cumulative Report of CPT Codes
 - Report of CPT Coding Accuracy
 - List Completed Cases Missing CPT Codes
 - Missing Codes Report

Laboratory Interim Report

Chief of Surgery Menu

Locked with **SROCHIEF**

- View Patient Perioperative Occurrences
- Management Reports
 - Morbidity & Mortality Reports
 - M&M Verification Report
 - Comparison of Preop and Postop Diagnosis
 - Delay and Cancellation Reports
 - Report of Delayed Operations
 - Report of Delay Reasons
 - Report of Delay Time
 - Report of Cancellations
 - Report of Cancellation Rates
 - List of Unverified Surgery Cases
 - Report of Returns to Surgery
 - Report of Daily Operating Room Activity
 - Report of Cases Without Specimens
 - Report of Unscheduled Admissions to ICU
 - Operating Room Utilization Report
 - Wound Classification Report
 - Print Blood Product Verification Audit Log
 - Key Missing Surgical Package Data
 - Admissions w/in 14 days of Out Surgery If Postop Occ
 - Deaths Within 30 Days of Surgery
- Unlock a Case for Editing
- Update Status of Returns Within 30 Days
- Update Cancelled Case
- Update Operations as Unrelated/Related to Death

Locked with **SROCHIEF**

Surgery Package Management Menu

Locked with **SRCOORD**

- Surgery Site Parameters (Enter/Edit)
- Operating Room Information (Enter/Edit)
- Surgery Utilization Menu
 - Operating Room Utilization (Enter/Edit)
 - Normal Daily Hours (Enter/Edit)
 - Operating Room Utilization Report
 - Report of Normal Operating Room Hours
 - Purge Utilization Information
- Person Field Restrictions Menu
 - Enter Restrictions for 'Person' Fields
 - Remove Restrictions for 'Person' Fields
- Update O.R. Schedule Devices
- Update Staff Surgeon Information
- Flag Drugs for Use as Anesthesia Agents
- Update Site Configurable Files
- Backfill Order File with Surgical Cases
- Surgery Interface Management Menu
 - Flag Interface Fields
 - File Download
 - Table Download
 - Update Interface Parameter Field
- Make Reports Viewable in CPRS

Locked with **SRCOORD**

Locked with **SRCOORD**

Surgery Risk Assessment Menu

Locked with **SR RISK ASSESSMENT**

- Non-Cardiac Risk Assessment Information (Enter/Edit)
 - Preoperative Information (Enter/Edit)
 - Laboratory Test Results (Enter/Edit)
 - Operation Information (Enter/Edit)
 - Patient Demographics (Enter/Edit)
 - Intraoperative Occurrences (Enter/Edit)
 - Postoperative Occurrences (Enter/Edit)
 - Update Status of Returns Within 30 Days
 - Update Assessment Status to 'COMPLETE'
 - Alert Coder Regarding Coding Issues
- Cardiac Risk Assessment Information (Enter/Edit)
 - Clinical Information (Enter/Edit)
 - Laboratory Test Results (Enter/Edit)
 - Enter Cardiac Catheterization & Angiographic Data
 - Operative Risk Summary Data (Enter/Edit)
 - Cardiac Procedures Operative Data (Enter/Edit)
 - Intraoperative Occurrences (Enter/Edit)
 - Postoperative Occurrences (Enter/Edit)
 - Outcome Information (Enter/Edit)
 - Resource Data
 - Update Assessment Status to 'COMPLETE'
 - Alert Coder Regarding Coding Issues

Print a Surgery Risk Assessment
Update Assessment Completed/Transmitted in Error
List of Surgery Risk Assessments
Print 30 Day Follow-up Letters
Exclusion Criteria (Enter/Edit)
Monthly Surgical Case Workload Report
Update Operations as Unrelated/Related to Death
M&M Verification Report
Update 1-Liner Case
Queue Assessment Transmissions
Risk Model Lab Test (Enter/Edit)

CPT/ICD Coding Menu

Locked with **SR CODER**

CPT/ICD Update/Verify Menu
 Update/Verify Procedure/Diagnosis Codes
 Operation/Procedure Report
 Nurse Intraoperative Report
 Non-OR Procedure Information
Cumulative Report of CPT Codes
Report of CPT Coding Accuracy
List Completed Cases Missing CPT Codes
List of Operations
List of Operations (by Surgical Specialty)
List of Undictated Operations
Report of Daily Operating Room Activity
PCE Filing Status Report
Report of Non-O.R. Procedures

Locked with **SR CODER**

Transplant Assessment Menu

Locked with **SR TRANSPLANT**

*****This option is no longer used after Patch SR*3*184**

Enter/Edit Transplant Assessments
Print Transplant Assessment
List of Transplant Assessments
Transplant Assessment Parameters (Enter/Edit)

Security Keys

There are 23 security keys in the Surgery package. Most are used to restrict access to certain options within the package. Other keys can be used to restrict which people can be entered in specific fields. This section of the manual describes each key. These descriptions can aid the package coordinator in assigning security levels to the user personnel. A list of users' names and security key levels must be supplied to the site manager.

The following keys are used to determine whether a person can be entered in a specific field. Surgery V. 3.0 allows the user to restrict entries for any "person" type field based on keys. For example, the user could restrict entries into the PRIMARY SURGEON (.14) field in the SURGERY (#130) file to only those people who are holders of the SR SURGEON key. When entering data for a surgical case, only those people can be selected as a surgeon. Restriction of fields is not limited to the keys listed below. The user can use any existing key, or create keys of their own, to restrict access. The keys listed below are supplied for convenience. If the user does not choose to restrict "person" type fields, these keys will not be used elsewhere in the Surgery package.

Security Key	Description
SR ANESTHESIOLOGIST	This key is used to restrict entry into selected fields in which an anesthesiologist can be entered.
SR MED STUDENT	This key is used to restrict entry into selected fields in which a medical student can be entered.
SR NURSE	This key is used to restrict entry into selected fields in which a nurse can be entered.
SR NURSE ANESTHETIST	This key is used to restrict entry into fields in which a nurse anesthetist can be entered.
SR PHYSICIAN ASSISTANT	This key is used to restrict entry into fields in which a physician assistant can be entered.
SR SURGEON	This key is used to restrict entry into fields in which a surgeon can be entered.



The following keys are used to restrict access to menus and options. Only holders of these keys will be permitted to access the locked options or functions.

Security Key	Description
SR CODER	This key should be given to those responsible for entering CPT and ICD codes for operations and non-OR procedures. This key is used to lock the Surgery <i>CPT/ICD Update/Verify Menu</i> [SRCODING UPDATE/VERIFY MENU] option.
SR REQ OVERRIDE	This key allows users to make operation requests beyond the site selected cutoff times. The SR REQ OVERRIDE key should only be given to those users that are permitted to make this type of last minute request.
SR RISK ASSESSMENT	This key is used to lock the <i>Surgery Risk Assessment Menu</i> [SROA RISK ASSESSMENT] option and all the options it contains. The SR RISK ASSESSMENT key should be given to the Surgery Risk Data Manager and Surgery Application Coordinator.
SR STAFF SURGEON	This key is used to determine whether a person is a staff surgeon.
SRCOORD	This key is used to lock the <i>Surgery Package Management Menu</i> [SRO PACKAGE MANAGEMENT] option and the options it contains. The SRCOORD key should be given to the Surgery Application Coordinator.
SROAMIS	This key is required when accessing the <i>Anesthesia AMIS</i> [SROAMIS] option and should be given to only those users that will need to print the Anesthesia AMIS Report.
SROANES	This key is required when accessing any anesthesia related option, with the exception of the <i>Anesthesia AMIS</i> [SROAMIS] option, which has its own unique key.
SROCHIEF	This key is required when accessing the <i>Chief of Surgery Menu</i> [SROCHIEF] option and the options it contains. The SROCHIEF key should be given to the Surgery Application Coordinator, Chief of Surgery, and his or her designee.
SROCOMP	This key is used to lock the <i>Perioperative Occurrences Menu</i> [SRO COMPLICATIONS MENU] option. It should be given to those users permitted to enter, edit, and delete surgical complications.
SROEDIT	This key is required when entering or editing Surgery related data. Users that do <u>not</u> have this key are limited to viewing access, rather than editing access, on all Surgery screens.
SROPER	This key is required to access the <i>Operation Menu</i> [SROPER] option and all of the options it contains.
SROREP	This key is required when accessing the <i>Surgery Reports</i> [SRORPTS] option. Options in this menu cannot be accessed without this key.
SROREQ	This key is required when accessing the <i>Request Operations</i> [SROREQ] option, and is given only to those users responsible for making requests.
SROSCH	This key is required when accessing the <i>Schedule Operations</i> [SROSCHOP] option and is given only to users responsible for scheduling operations.

Security Key	Description
SROSURG	This key is required when accessing the <i>Undictated Operations</i> [SRODICT] option and the <i>Enter/Edit Non-Operative Complications</i> [SROCOMP] option.
SROWAIT	This key is required when accessing the <i>Maintain Surgery Waiting List</i> [SROWAIT] option. Only users responsible for adding, changing, deleting, or printing data on the waiting list are given this key.
SR TRANSPLANT	This key is used to restrict entry into the Transplant Assessment module.

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File Security

The following files were distributed with limited access for first time installations of the VistA Surgery software. Files not listed below were sent without restrictions on VA FileMan access. Sites can add their own file access codes as needed, but it is highly recommended that they do not change the codes that are sent with this software package.

File Number	File Name	Read	Write	Delete	LAYGO
131	PERSON FIELD RESTRICTION	@	^	^	@
132.9	ATTENDING CODES*	@	@	@	@
132.95	ANESTHESIA SUPERVISOR CODES		^	^	^
134	OPERATING ROOM TYPE		^	^	^
136.5	OCCURRENCE CATEGORY	^	^	^	^

* This file was not included in the original release of Surgery V. 3.0, but was added by patch SR*3*129.

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Glossary

The following table provides definitions for common terms used in this manual.

Term/Acronym	Definition
Aborted	Case status indicating the case was cancelled after the patient entered the operating room. Cases with ABORTED status must contain entries in the TIME PAT OUT OR field (#.232) and/or the TIME PAT IN OR field (#.205), plus the CANCEL DATE field (#17) and/or the CANCELLATION TIMEFRAME field (#17.5) and the CANCEL REASON field (#18) and the CASE ABORTED field entered with "YES".
ASA Class	This is the American Society of Anesthesiologists' classification relating to the patient's physiologic status. Numbers followed by an "E" indicate an emergency.
Attending Code	Code that corresponds to the highest level of supervision provided by the attending staff surgeon during the procedure.
Blockout Graph	Graph showing the availability of operating rooms.
Cancelled Case	Case status indicating that an entry has been made in the CANCEL DATE field (#17) and/or the CANCELLATION TIMEFRAME field (#17.5) and the CANCEL REASON field (#18) without the patient entering the operating room.
CCSHS	VA Center for Cooperative Studies in Health Services located at Hines, Illinois.
Completed Case	Case status indicating that an entry has been made in the TIME PAT OUT OR (#.232) field.
Concurrent Case	A patient undergoing two operations by different surgical specialties at the same time, or back-to-back, in the same operating room.
CPT Code	Current Procedural Terminology; also known as Operation Code.
CRT	Cathode ray tube display. A display device that uses a cathode ray tube.
Enter	To type in information on a keyboard and press the Enter key (or the Return key for some keyboards) to send the information to the computer.
Intraoperative Occurrence	Perioperative occurrence during the procedure.
Major	Any operation performed under general, spinal, or epidural anesthesia plus all inguinal herniorrhaphies and carotid endarterectomies, regardless of anesthesia administered.
Minor	All operations not designated as Major.
New Surgical Case	A surgical case that has not been previously requested or scheduled such as an emergency case. A surgical case entered in the records without being booked through scheduling will not appear on the Schedule of Operations or as an operative request.
Non-Operative Occurrence	Occurrence that develops before a surgical procedure is performed.

Term/Acronym	Definition
Not Complete	Case status indicating one of the following two situations with no entry in the TIME PAT OUT OR field (#.232): 1) Case has entry in TIME PAT IN OR field (#.205). 2) Case has not been requested or scheduled.
Operation Code	Identifying code for reporting medical services and procedures performed by physicians. See CPT Code.
PACU	Post Anesthesia Care Unit.
Postoperative Occurrence	Perioperative occurrence following the procedure.
Procedure Occurrence	Occurrence related to a non-OR procedure.
Requested	Operation has been slotted for a particular day but the time and operating room are not yet firm.
Risk Assessment	A module of the Surgery software that provides medical centers a mechanism to track information related to surgical risk and operative mortality. Completed assessments are transmitted to the NSQIP or the CICSP national database for statistical analysis.
Scheduled	Operation has both an operating room and a scheduled starting time, but the operation has not yet begun.
Screen	An illuminated display surface on which display images are presented.
Screen Server	A format for displaying data on a cathode ray tube display. Screen Server is designed specifically for the Surgery Package.
Screen Server Function	The Screen Server prompt for data entry.
Service Blockouts	The reservation of an operating room for a particular service on a recurring basis. The reservation is charted on a blackout graph.
Transplant Assessment	A module of the Surgery software that provides medical centers a mechanism to track information related to surgical transplant risk and operative mortality. Completed assessments are transmitted to the NSQIP or the CICSP national database for statistical analysis.
VASQIP	VA Surgical Quality Improvement Program.

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