Department of Veterans Affairs

Automated Surgical Risk Calculator (ASRC)

Testing Manual



September 2015

Version 0.12

Revision History

| Date | Version | Description | Author | Reviewer | Issue Date |
| --- | --- | --- | --- | --- | --- |
| 09/16/2015 | 0.12 | Tech Review | S. Ambrose |  | 09/17/2015 |
| 08/18/2015 | 0.11 | Updated to include the following user stories:  [ASRC-59](https://libertyits.atlassian.net/browse/ASRC-59): Utilization Report  [ASRC-31](https://libertyits.atlassian.net/browse/ASRC-31): Active Patient Medications Display  [ASRC-39](https://libertyits.atlassian.net/browse/ASRC-39): Patient DNR Automatic Retrieval  [ASRC-99](https://libertyits.atlassian.net/browse/ASRC-99): Drop-Down Custom Variables  [ASRC-144](https://libertyits.atlassian.net/browse/ASRC-144): Modify Drop-Down Custom Variables  [ASRC-98](https://libertyits.atlassian.net/browse/ASRC-98): Numeric Custom Variables  [ASRC-46](https://libertyits.atlassian.net/browse/ASRC-46): Calculate all Probability Outcomes  [ASRC-118](https://libertyits.atlassian.net/browse/ASRC-118): INR Lab Result Manual WNL/Abnormal  [ASRC-130](https://libertyits.atlassian.net/browse/ASRC-130): INR Lab Result Translation  [ASRC-122](https://libertyits.atlassian.net/browse/ASRC-122): K+ Lab Result Manual WNL/Abnormal  [ASRC-86](https://libertyits.atlassian.net/browse/ASRC-86): K+ Lab Result Manual Entry Numerical  [ASRC-134](https://libertyits.atlassian.net/browse/ASRC-134): K+ Lab Result Translation  [ASRC-72](https://libertyits.atlassian.net/browse/ASRC-72): K+ Lab Result Automatic Retrieval  [ASRC-125](https://libertyits.atlassian.net/browse/ASRC-125): HgA1C Lab Result Manual WNL/Abnormal  [ASRC-89](https://libertyits.atlassian.net/browse/ASRC-89): HgA1C Lab Result Manual Entry Numerical  [ASRC-137](https://libertyits.atlassian.net/browse/ASRC-137): HgA1C Lab Result Translation  [ASRC-75](https://libertyits.atlassian.net/browse/ASRC-75): HgA1C Lab Result Automatic Retrieval  [ASRC-101](https://libertyits.atlassian.net/browse/ASRC-75): Glucose Lab Result Manual WNL/Abnormal  [ASRC-90](https://libertyits.atlassian.net/browse/ASRC-90): Glucose Lab Result Manual Entry Numerical  [ASRC-138](https://libertyits.atlassian.net/browse/ASRC-138): Glucose Lab Result Translation  [ASRC-76](https://libertyits.atlassian.net/browse/ASRC-76): Glucose Lab Result Automatic Retrieval  ASRC-3: Share User Context with CPRS  ASRC-327: Authenticate Users with Access/Verify Codes | B. Frey | S. Ambrose | 09/07/2015 |
| 07/28/2015 | 0.10 | Updated to include the following user stories:  ASRC-52: Save Result to NSO SQL DB  ASRC-30: Patient ADL Notes Display  ASRC-35: Health Factors Automatic Retrieval  ASRC-32 Non-VA Patient Medications Display  ASRC-33: Remote Patient Medications Display  ASRC-61: Summary Report  ASRC-291: Prompt only for warranted procedures | B. Frey  D. Tombs | S. Ambrose | 08/11/2015 |
| 06/30/2015 | 0.09 | Updated to include the following User Stories:  ASRC-231: Add rules for applying calculations to a variable  ASRC-5: Modify rules for applying calculations to a variable  ASRC-288: Display current model configuration  ASRC-289: Edit Model Name  ASRC-4: Modify Terms without Patch  ASRC-10: Update procedure set  ASRC-12: Procedures that do not warrant risk calculations  ASRC-57: VistA Risk Calculation Prompt – New Request  ASRC-250: VistA Risk Calculation Prompt – Update Request  ASRC-58: VistA Immediately Displays Risk Calculation  ASRC-53: Display Field Data Definition | B. Frey | S. Ambrose | 07/14/2015 |
| 06/09/2015 | 0.08 | Updated to include the following User Stories:  ASRC-284: Cancelling signature preserves input  ASRC-224: Add Checkbox Custom Variables  ASRC-142: Modify Radio Button Custom Variables  ASRC-225: Add Radio Button Custom Variables  ASRC-229: Modify Discrete Numerical Variables  ASRC-230: Add Discrete Numerical Variables  ASRC-236: Warn the user if overwriting an in-progress calculation  ASRC-56: VistA Request for Surgery Display  ASRC-8: Search for procedure by description  ASRC-14: Albumin Lab Result Automatic Retrieval  ASRC-63: Creatinine Lab Result Automatic Retrieval  ASRC-64: WBC Lab Result Automatic Retrieval  ASRC-65: Platelets Lab Result Automatic Retrieval  ASRC-66: Hematocrit Lab Result Automatic Retrieval  ASRC-67: SGOT Lab Result Automatic Retrieval  ASRC-68: INR Lab Result Automatic Retrieval  ASRC-69: BUN Lab Result Automatic Retrieval  ASRC-70: Alkaline Phosphatase Lab Result Automatic Retrieval  ASRC-71: Na+ Lab Result Automatic Retrieval  ASRC-73: Bilirubin Lab Result Automatic Retrieval  ASRC-74: PTT Lab Result Automatic Retrieval | B. Frey | S. Ambrose | 06/09/2015 |
| 05/18/2015 | 0.07 | Updated to include the following User Stories:  ASRC-109: FY2013 Urology 30-Day Risk Model  ASRC-110: FY2013 Vascular 30-Day Risk Model  ASRC-112: FY2013 Other Surgical Specialty 30-Day Risk Model  ASRC-111: FY2013 Cardiac CABG Only 30-Day Risk Model  ASRC-238: FY2013 Cardiac Valve/Other 30-Day Risk Model  ASRC-266: Put the Procedure Value at the top of the results screen list  ASRC-265: Put the Procedure Value at the top of the TIU Note  ASRC-264: Risk outcomes at the top of the TIU Note  ASRC-269: BMI Upper Range  ASRC-199: Authenticate Administrative Users  ASRC-141: Modify Checkbox Custom Variables  ASRC-51: Save Result as discrete VistA data | B. Frey | S. Ambrose | 05/19/2015 |
| 04/13/2015 | 0.06 | Updated to include the following User Stories:  ASRC-116: Hematocrit Lab Result Manual WNL/Abnormal  ASRC-80: Hematocrit Lab Result Manual Entry Numerical  ASRC-128: Hematocrit Lab Result Translation  ASRC-117: SGOT Lab Result Manual WNL/Abnormal  ASRC-81: SGOT Lab Result Manual Entry Numerical  ASRC-129: SGOT Lab Result Translation  ASRC-121: Serum Sodium Lab Result Manual WNL/Abnormal  ASRC-85: Serum Sodium Lab Result Manual Entry Numerical  ASRC-133: Serum Sodium Lab Result Translation  ASRC-124: PTT Lab Result Manual WNL/Abnormal  ASRC-88: PTT Lab Result Manual Entry Numerical  ASRC-136: PTT Lab Result Translation  ASRC-107: FY2013 Neurosurgery 30-Day Risk Model  ASRC-108: FY2013 Orthopedic 30-Day Risk Model  ASRC-210: Re-run Calculation with Modified Inputs  ASRC-49: Sign the Risk Calculation  ASRC-50: Save Result as TIU Note | S. Ambrose | B. Frey | 04/21/2015 |
| 03/23/2015 | 0.05 | Added ASRC numbers to TC names.  Updated to include the following User Stories:  ASRC-197: Update Age Ranges  ASRC-243: BMI Validation  ASRC-113: Creatinine Lab Result Manual WNL/Abnormal  ASRC-77: Creatinine Lab Result Manual Entry Numerical  ASRC-102: Creatinine Lab Result Translation  ASRC-123: Bilirubin Lab Result Manual WNL/Abnormal  ASRC-87: Bilirubin Lab Result Manual Entry Numerical  ASRC-135: Bilirubin Lab Result Translation  ASRC-115: Platelets Lab Result Manual WNL/Abnormal  ASRC-79: Platelets Lab Result Manual Entry Numerical  ASRC-127: Platelets Lab Result Translation  ASRC-82: INR Lab Result Manual Entry Numerical  ASRC-19: Patient Age Automatic Retrieval  ASRC-92: Patient Gender Automatic Retrieval  ASRC-25: Patient Weight Automatic Retrieval  ASRC-93: Patient BMI Automatic Retrieval  ASRC-240: Change Text to “Other Surgical Specialty”  ASRC-26: Patient Weight 6 Months Prior Automatic Retrieval  ASRC-106: FY2013 General Surgery 30-Day Risk Model | S. Ambrose | B. Frey | 03/23/2015 |
| 02/23/2015 | 0.04 | Updated to include the following User Stories:  ASRC-114: WBC Lab Result Manual WNL/Abnormal  ASRC-78: WBC Lab Result Manual Entry Numerical  ASRC-126: WBC Lab Result Translation  ASRC-1: Launch from CPRS Tools Menu  ASRC-2: Share Patient Context with CPRS  ASRC-43: FY2013 Thoracic Risk Model  ASRC-27: Patient Weight 6 Months Prior Manual Entry | B. Frey | S. Vetzel | 02/24/2015 |
| 01/23/2015 | 0.03 | Updated  TC 3 – added fractional test and clarified TC navigation steps.  TC 5 – added steps needed to enter all required fields and clarified navigation steps.  TC 7 – added note to Acceptance Criteria section that states that as new groups (e.g., Medications) are added their grouping will be tested as part of the TC associated with the new User Story.  Updated to include the following User Stories:  ASRC-120: Alkaline Phosphatase Lab Result Manual WNL/Abnormal  ASRC-84: Alkaline Phosphatase Lab Result Manual Entry Numerical  ASRC-132: Alkaline Phosphatase Lab Result Translation  ASRC-119: BUN Lab Result Manual WNL/Abnormal  ASRC-83: BUN Lab Result Manual Entry Numerical  ASRC-131: BUN Lab Result Translation  ASRC-27: Patient Weight 6 Months Prior Manual Entry  ASRC-18: Serum Albumin Lab Result Manual WNL/Abnormal  ASRC-17: Serum Albumin Lab Result Manual Entry Numerical  ASRC-15: B Serum Albumin Lab Result Translation  ASRC-9: Search for procedure by CPT Code  ASRC-165: Display Patient BMI Categorization  Removed ASRC-27: Patient Weight 6 Months Prior as the User Story is being re-worked based on new input from customer. | B. Frey | S. Vetzel | 01/26/2015 |
| 12/17/2014 | 0.02 | Updated to include the following User Stories:  Field Display Grouping  Patient BMI Manual Entry  Patient DNR Manual Entry  Checkbox Custom Variables  Change Checkbox Custom Variable Text  Radio Button Custom Variables | B. Frey | S. Vetzel | 12/17/2015 |
| 11/20/2014 | 0.01 | Initial Draft  Updated to include the following User Stories:  Display User Name from VistA  Select Surgical Specialty  Patient Age Manual Entry  Patient Gender Manual Entry  Select Surgical Procedure  Procedure list has Descriptions, CPT codes, and RVUs | B. Frey | S. Vetzel | 11/21/2015 |

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# Testing Manual Introduction

Project Name: Automated Surgical Risk Calculator (ASRC)

Test Plan Type: Functional

Tester Name: Bill Frey

Environment: The Department of Veterans Affairs (VA) Future Technology Lab (FTL)

**Purpose:**

The ARSC testing manual will support the development of an “ASRC Tool” that can be used at the time the patient is considered for surgical referral by a primary care provider and at the time, a surgeon is requesting a surgery. This Tool will support clinical decision-making regarding perioperative risk (includes preoperative, intraoperative, and postoperative). Providers will verify patient-specific data that is automatically pulled from available data sources, enter remaining fields, and be provided with a real-time individual risk calculation of perioperative surgical mortality based on historic Veterans Affairs Surgical Quality Improvement Program (VASQIP) data and current VASQIP risk-adjusted models that are specialty-specific. The data entered and the calculated results will be available for viewing in the Computerized Patient Record System (CPRS) as a progress note. The data will also transfer and store as discrete fields in Veterans Health Information Systems and Technology Architecture (VistA) and a Structured Query Language (SQL) Database (DB) for use by the National Surgery Office (NSO).

The purpose of this document is to provide clear and easy to follow test scripts with associated screen shots to facilitate thorough testing by the Hewlett-Packard Enterprise Services (HPES) team and subsequent use for User Acceptance Testing (UAT). The Testing Manual will reflect updates as new functionality is developed and is available for testing.

**User must have access to the ASRC FTL environment and to the following applications:**

VistA/CPRS**:** Access to these legacy Veterans Affairs (VA) Electronic Health Record (EHR) applications is required to validate patient information and to access the ASRC Application (from CPRS).

**[ASRC Application](http://54.235.83.7/srcalc/newCalc" \o "Click to access ASRC calculator test application.  This link will only be valid during development of ASRC.):** New tool being developed by the ASRC providing the calculator User Interface (UI) and functions.

**NOTE: \*\* As of 09/10/2015, Single Sign On (SSO) is available in the FTL. Please use the utility “setup\_workstation” in the S: drive i824\_asrc folder. This will install vergenge (needed for SSO and will allow the user to access ASRC without logging in again following logging into CPRS.\*\***

**Conventions:**

* In the following Test Cases (TCs), “**Step**” indicates an instructional step in a procedure not specifically related to testing a requirement. There is no need to indicate a Pass or Fail for Steps (these cells have been greyed out).
* “***VP***” indicates a Verify Procedure (VP) step with expected results and actual results, related directly to testing a requirement. Enter (P)ass or (F)ail for each VP.

# TC #1 – ASRC-104: Display User Name from VistA

**User Story:** ASRC-104: Display User Name from VistA

**Description:** As a VA clinical user, I want the tool to display my user name from VistA, so that it is obvious what user is logged in.

*Acceptance Criteria:*

* Tool will log valid VistA users into the system
* Tool will display logged in user’s names

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #1 – Display User Name from VistA*** | | | | |
|  | **Step** | Access the ASRC Application. | The ASRC application displays |  |
|  | ***VP*** | Attempt to Login to the ASRC Application as a valid user - Radiologist (valid User Number 11716 entered in Username) | Verify that User: RADIOLOGIST, ONE displays. |  |
|  | ***VP*** | Attempt to login to the ARSC Application as an invalid user (enter invalid User Number 2) | Verify that appropriate login error message displays. |  |
|  |  | End of TC |  |  |

# TC #2 – ASRC-11: Select Surgical Specialty

**User Story:** ASRC-11: Select Surgical Specialty

**Description:** As a provider, I want to select my surgical specialty, So that the tool performs the specialty-specific calculation.

*Acceptance Criteria:*

* Selected Surgical Specialty screen is displayed when continue is clicked.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #2 –* Select Surgical Specialty** | | | | |
|  | **Step** | Login to the ASRC Application. | The ASRC application is displayed and login was successful |  |
|  | **VP** | Select the General Surgery Specialty and click continue | Verify that the General Surgery specialty screen is displayed |  |
|  | ***Step*** | Click the browser back button to navigate until the Select Surgical Specialty screen is displayed | Surgical Specialty selection screen is displayed |  |
|  | ***Step/VP*** | Repeat step 2 selecting Neurosurgery specialty | Verify same results |  |
|  | **Step/VP** | Repeat step 3 then step 2 selecting Orthopedic specialty | Verify same results |  |
|  | **Step/VP** | Repeat step 3 then step 2 selecting Other Non-Cardiac Specialty | Verify same results |  |
|  | **Step/VP** | Repeat step 3 then step 2 selecting Thoracic specialty | Verify same results |  |
|  | **Step/VP** | Repeat step 3 then steps 2-3 selecting Urology specialty | Verify same results |  |
|  | **Step/VP** | Repeat step 3 then steps 2-3 selecting Vascular specialty | Verify same results |  |
|  |  | End of TC |  |  |

# TC #3 – ASRC-20: Patient Age Manual Entry

**User Story:** ASRC-20: Patient Age Manual Entry

**Description:** As a provider, I want the tool to allow manual data entry of the patient's current age, So that I can still perform the calculation if it could not be automatically retrieved or if I have more information that is current.

*Acceptance Criteria:*

* Tool allows entry of age greater than or equal to 0
* Tool rejects entry less than 0 with a user-visible error message
* Tool rejects entry greater than 999 with a user-visible error message
* Tool rejects a blank Age entry with a user-visible error message
* Tool display entered age on calculation result page
* Each model that has the Manual Entry of Age (all non-cardiac) meets the previous criteria

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #3 – Patient Age Manual Entry*** | | | | |
|  | **Step** | Access the ASRC Application.  Login to the ASRC Application as a Radiologist (DUZ 11716) test user | The ASRC application displays.  Test user (Radiologist) is logged in. |  |
|  | **Step** | Select General Surgery Specialty and click the continue button. | The General Specialty shows as selected when clicked.  The General Surgery specialty screen displays after clicking continue |  |
|  | **VP** | * In the Age box enter -1 * Enter all other required fields for the specialty * Run calculation | Verify that an appropriate error message is displayed |  |
|  | **VP** | * In the Age box enter 0 * Enter all other required fields for the specialty * Run calculation | Verify that the value is accepted. |  |
|  | **VP** |  | Verify that the entered Age (0) is displayed |  |
|  | **Step** | * Click “Start New Calculation” * Select the specialty again (e.g., if testing General Surgery reselect it and Continue to that specialty screen) |  |  |
|  | **VP** | * In the Age box enter 1000 * Enter all other required fields for the specialty * Run calculation | Verify that an appropriate error message is displayed to the user (that the value must be <= 999) |  |
|  | **VP** | * In the Age box enter 999 * Enter all other required fields for the specialty * Run calculation | Verify that the value is accepted |  |
|  | **VP** |  | Verify that the entered Age (999) is displayed |  |
|  | **Step** | * Click “Start New Calculation” * Select the specialty again (e.g., if testing General Surgery reselect it and Continue to that specialty screen) |  |  |
|  | **VP** | * In the Age box enter value 18.1 (non-integer containing a fractional value) * Enter all other required fields for the specialty * Run calculation | Verify that the entered Age (18.1) is displayed |  |
|  | **Step** | * Click “Start New Calculation” * Select the specialty again (e.g., if testing General Surgery reselect it and Continue to that specialty screen) |  |  |
|  | **VP** | In the Age box enter “One” and run calculation.  Enter all other required fields for the specialty. | Verify that an appropriate error message is displayed |  |
|  | **VP** | Without entering an Age run the calculation.  Enter all other required fields for the specialty. | Verify that an appropriate error message is displayed |  |
|  | **Step** | Navigate back to the surgical specialty screen | The Surgical Specialty screen is displayed |  |
|  | **Step/VP** | Repeat steps 2-11 selecting Neurosurgery specialty. | Verify same results |  |
|  | **Step/VP** | Repeat step 12 then 2 -11 selecting Orthopedic specialty | Verify same results |  |
|  | **Step/VP** | Repeat step 12 then 2 -11 selecting Other Non-Cardiac Specialty | Verify same results |  |
|  | **Step/VP** | Repeat step 12 then 2 -11 selecting Thoracic specialty | Verify same results |  |
|  | **Step/VP** | Repeat step 12 then 2 -11 selecting Urology specialty | Verify same results |  |
|  | **Step/VP** | Repeat step 12 then 2 -11 selecting Vascular specialty | Verify same results |  |
|  |  | End of TC |  |  |

# TC #4 – ASRC-22: Patient Gender Manual Entry

**User Story:** ASRC-22: Patient Gender Manual Entry

**Description:** As a provider, I want the tool to allow manual data entry of the patient's gender, So that I can still perform the calculation if it could not be automatically retrieved or if I have more information that is current.

*Acceptance Criteria:*

* Tool displays entered gender on calculation result page.
* Tool displays appropriate error message if gender is not selected prior to running the calculation
* Tool changes the Variables section label to “Calculation Inputs” when the calculation is executed.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #4 – Patient Gender Manual Entry*** | | | | |
|  | **Step** | Login to the ASRC Application. | The ASRC application displays and login is successful. |  |
|  | **Step** | Select Cardiac Surgical Specialty and click continue | The Cardiac screen is displayed |  |
|  | ***VP*** |  | Verify that Gender label and Male Female radio buttons are displayed |  |
|  | ***VP*** | Select Male and run calculation | Verify that the section label changes to Calculation Inputs and that Gender Male is displayed |  |
|  | **Step** | * Click “Start New Calculation” * Select the Cardiac specialty again | The Cardiac screen is displayed |  |
|  | ***VP*** | Select Female and run calculation | Verify that the section label changes to Calculation Inputs and that Gender Female is displayed |  |
|  | ***VP*** | Run calculation without selecting either Male or Female | Verify that an appropriate error message is displayed |  |
|  |  | End of TC |  |  |

# TC #5 – ASRC-6: Select Surgical Procedure

**User Story:** ASRC-6: Select Surgical Procedure

**Description:** As a provider, I want to select the surgical procedure, So that the tool performs the procedure-specific calculation.

Acceptance Criteria:

* Tool displays the shortened procedure description on the variable entry page.
* Tool displays the full procedure on the calculation result page.
* Tool displays appropriate error messages if a surgical procedure is not selected
* Tool meets previous criteria for all non-cardiac specialties

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #5 – Select Surgical Procedure*** | | | | |
|  | **Step** | Login to the ASRC Application. | The ASRC application displays and login was successful |  |
|  | **Step** | Select the General Surgery Specialty and click continue | The selected specialty screen is displayed |  |
|  | **Step** | Click “Select” for procedure | The Procedure list is displayed |  |
|  | **VP** | Select the first procedure code on the list | Verify that the short form of the procedure description is displayed as a Variable |  |
|  | **Step** | Enter all other required fields for the specialty |  |  |
|  | **VP** | Run calculation | Verify that the long form of the procedure description is displayed |  |
|  | **Step** | * Click “Start New Calculation” * Select the specialty again (e.g., if testing General Surgery reselect it and Continue to that specialty screen) |  |  |
|  | **VP** | Run calculation without selecting a procedure | Verify that an appropriate error message is displayed |  |
|  | **VP** | Repeat steps 2-8 selecting the following specialties one at a time:   * Neurosurgery * Orthopedic * Other Non-cardiac * Thoracic * Urology * Vascular | Verify same results |  |
|  |  | End of TC |  |  |

# TC #6 – ASRC-7: Procedure list has Descriptions, CPT codes, and RVUs

**User Story:** ASRC-7: Procedure list has Descriptions, Current Procedural Terminology (CPT) codes, and Relative Value Units (RVUs)

**Description:** As a provider who is selecting a procedure, I want to see the procedure's CPT code, long description, and RVU, So that I know exactly what procedure I am selecting.

*Acceptance Criteria:*

* Tool displays for each procedure: CPT code, long description, and RVU.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #6 –* Procedure list has Descriptions, CPT codes, and RVUs** | | | | | |
|  | **Step** | Login to the ASRC Application. | The ASRC application displays and login was successful |  |
|  | **Step** | Select the General Surgery Specialty and click continue | The selected specialty screen is displayed |  |
|  | **VP** | Click “Select” for procedure | Verify that each procedure has a CPT code, long description, and RVU. |  |
|  | ***Step*** | Click the browser back button to navigate until the Select Surgical Specialty screen is displayed | Surgical Specialty selection screen is displayed |  |
|  | **VP** | Repeat steps 2-5 selecting the following specialties one at a time:   * Neurosurgery * Orthopedic * Other Non-cardiac * Thoracic * Urology * Vascular | Verify same results |  |
|  |  | End of TC |  |  |

# TC #7 – ASRC-55: Field Display Grouping

**User Story:** ASRC-55: Field Display Grouping

**Description:** As a provider, I want the input fields grouped together (e.g., Demographics, Medications, etc.),

So that the variable entry page is intuitive.

*Acceptance Criteria:*

* The Field Display Grouping follows,

Table 1 – Field Grouping Categories

|  |
| --- |
| CPT Coded Procedure Planned, |
| Surgical Specialty, |
| Demographics, |
| BMI, |
| Medications, |
| Laboratory Values, |
| Clinical Conditions or Diseases specified in the coefficient data source. Clinical Conditions or Diseases shall be subdivided into |
| * + “Recent” and |
| * + “History of” categories. |

NOTE: Field Groupings will be incrementally verified as new field groups are added (e.g., Medications) and will be included as part of the related TC associated with the new User Story being implemented.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #7 –* Field Display Grouping** | | | | |
|  | **Step** | Login to the ASRC Application. | The ASRC application displays and login was successful |  |
|  | **Step** | Select Cardiac and click Continue | The Cardiac screen displays |  |
|  | **VP** | Examine the Cardiac Screen | Verify available field display groupings are within the groupings listed in Table 1 in Case 7’s Acceptance Criteria. |  |
|  | **VP** | Repeat steps 2-3 selecting the following specialties one at a time:   * General Surgery * Neurosurgery * Orthopedic * Other Non-cardiac * Thoracic * Urology * Vascular | Verify same results |  |
|  |  | End of TC |  |  |

# TC #8 – ASRC-29: Patient Functional Status Entry

**User Story:** ASRC-29: Patient Functional Status Entry

**Description:** As a provider, I want to select the patient's functional status as "independent,” "partially dependent,” or "totally dependent", so that functional status is included in the risk calculation

*Acceptance Criteria:*

* Tool displays Functional Status and provides selectable statuses: Independent, Partially Dependent, and Totally Dependent
* Tool displays entered Functional Status on calculation result page.
* Tool displays appropriate error message if Functional Status is not selected prior to running the calculation
* Tool changes the Variables section label to “Calculation Inputs” when the calculation is executed.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** | |
| --- | --- | --- | --- | --- | --- |
| ***TC #8 –* Patient Functional Status Entry** | | | | | |
|  | **Step** | Login to the ASRC Application. | The ASRC application is displays and login was successful |  | |
|  | **Step** | Select General Surgery and click continue | The General Surgery screen displays |  | |
|  | **VP** | Examine the selected surgical specialty screen | Verify that functional status displays along with the following selections   * Independent * Partially Dependent * Totally Dependent |  | |
|  | **Step** | Select a Procedure and enter a valid age | Selected procedure and entered age are displayed |  | |
|  | **VP** | Select Independent and click Run Calculation | Verify that screen is updated with the results (grouping is labelled Calculation Inputs) and that the selected functional status is displayed along with the other values. |  | |
|  | **Step** | Click the Browser back button | The variable entry screen displays for the selected specialty. |  | |
|  | **Step** | Select a Procedure and enter a valid age | Selected procedure and entered age are displayed |  | |
|  | **VP** | Select Partially Dependent and click Run Calculation | Verify that screen is updated with the results (grouping is labelled Calculation Inputs) and that the selected functional status is displayed along with the other values. |  | |
|  | **Step** | Click the Browser back button | The variable entry screen displays for the selected specialty. |  | |
|  | **Step** | Select a Procedure and enter a valid age | Selected procedure and entered age are displayed |  | |
|  | **VP** | Select Totally Dependent and click Run Calculation | Verify that screen is updated with the results (grouping is labelled Calculation Inputs) and that the selected functional status is displayed along with the other values. |  | |
|  | **Step** | Navigate back to the Surgical Specialty Selection page | Surgical Specialties are displayed |  | |
|  | **VP** | Repeat steps 2-12 selecting the following specialties one at a time:   * Neurosurgery * Orthopedic * Other Non-cardiac * Thoracic * Urology * Vascular | Verify same results | |  |
|  |  | End of TC |  |  | |

# TC #9 – ASRC-21: Patient BMI Manual Entry

**User Story:** ASRC-21: Patient BMI Manual Entry

**Description:** As a provider, I want the tool to allow manual data entry of the patient's current BMI, so that I can still perform the calculation if it could not be automatically retrieved or if I have more current information.

Acceptance Criteria:

* Tool displays BMI and a manual entry box for each specialty
* Tool displays BMI in the correct field grouping (In Accordance With [IAW] VA Government Furnished Information [GFI] FY2013 Coefficients)
* Manual entry are numerical (not radio button categorization).
* Tool will validate that BMI is greater than or equal to 0.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #9 –* Patient BMI Manual Entry** | | | | |
|  | **Step** | Login to the ASRC Application | The ASRC application is displayed and login was successful |  |
|  | **Step** | Select Cardiac Surgical Specialty and click Continue | The Cardiac screen is displayed |  |
|  | **VP** | Examine the selected Surgical Specialty screen | * Verify that BMI is displayed along with a manual entry box * Verify that BMI is displayed in the correct field grouping |  |
|  | **VP** | * Enter data in other required fields on the screen * Enter -1 in the BMI box * Click Run Calculation | Verify that an appropriate error message is displayed |  |
|  | **VP** | * Enter data in other required fields on the screen * Enter 0 in the BMI box * Click Run Calculation | Verify that the entered BMI is shown on the Calculation Results page |  |
|  | **VP** | * Enter data in other required fields on the screen * Enter 500 in the BMI box * Click Run Calculation | Verify that an appropriate error message is displayed |  |
|  | **VP** | * Enter data in other required fields on the screen * Enter 499 in the BMI box * Click Run Calculation | Verify that the entered BMI is shown on the Calculation Results page |  |
|  | **Step** | Repeat steps 2-7 selecting the following specialties one at a time:   * Neurosurgery * Orthopedic * Other Non-cardiac * Thoracic * Urology * Vascular | Verify same results |  |
|  |  | End of TC |  |  |

# TC #10 – ASRC-38: Patient DNR Manual Entry

**User Story:** ASRC-38: Patient Do Not Resuscitate (DNR) Manual Entry

**Description:** As a provider, I want the tool to allow manual entry of DNR status,

So that I can still perform the risk calculation if it could not be automatically retrieved or if I have more current information.

*Acceptance Criteria:*

* Tool displays DNR and a checkbox for each specialty
* Tool displays DNR in the correct field grouping (IAW VA GFI FY2013 Coefficients)
* Tool displays “Yes” on calculation results page when DNR is checked
* Tool displays “No” on calculation results page when DNR is not checked

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #10 –* Patient DNR Manual Entry** | | | | |
|  | **Step** | Login to the ASRC Application. | The ASRC application displays and login was successful |  |
|  | **Step** | Select the Cardiac surgical specialty and click continue | The Cardiac screen displays |  |
|  | **VP** | Examine the selected Surgical Specialty screen | * Verify that there DNR and a corresponding checkbox are displayed * Verify that DNR is displayed in the correct field grouping |  |
|  | **VP** | * Enter data in other required fields on the screen * Check the DNR box * Click Run Calculation | Verify on the Calculations Results screen that DNR is displayed as “Yes” |  |
|  | **VP** | Repeat steps 2-4 selecting the following specialties one at a time:   * General Surgery * Neurosurgery * Orthopedic * Other Non-cardiac * Thoracic * Urology * Vascular | Verify same results |  |
|  |  | End of TC |  |  |

# TC #11 – ASRC-41: Checkbox Custom Variables and ASRC-154: Change Checkbox Custom Variable Text

**User Story(s):** ASRC-41: Checkbox Custom Variables

**Description –** As a provider, I want the tool to support specialty-specific checkbox variables, so that I can intuitively input specialty-specific data.

*Acceptance Criteria:*

* Tool displays at least one functional custom checkbox variable.
* Tool displays entered checkbox value on calculation result page.
* Tool only displays the variable entry on the appropriate specialty pages.

**User Story(s):** ASRC-154: Change Checkbox Custom Variable Text

**Description –** Asan ASRC Administrator, I want to modify the text of a checkbox custom variable, so that I can update the risk models without development effort.

*Acceptance Criteria:*

* If a user has the Administrator role in ASRC the user can access the Administrative pages.
* An Administrative user can modify the displayed text for a checkbox variable.
* The variables names must be 80 characters or less

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Requires access to an ASRC Administrator account.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Use the User Number “1” to sign on as an administrator. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #11 –* Checkbox Custom Variables and Change Checkbox Custom Variable Text** | | | | |
|  | **Step** | Login to the ASRC Application as an Administrator | The ASRC application is displayed and login was successful |  |
|  | **Step** | Select the General Surgery surgical specialty and click continue | The General Surgery screen is displayed |  |
|  | **Step** | Examine the selected Surgical Specialty screen | The “Preop Pneumonia” checkbox is displayed |  |
|  | **VP** | Click on the Administration link (located on Welcome Screen) | Verify that the Model Administration page is displayed |  |
|  | **VP** | Click on the Edit link for “Preop Pneumonia” (A custom Checkbox variable) | Verify that the Display Name for “Preop Pneumonia” is displayed and can be selected for editing |  |
|  | **VP** | Change the Display Name to “Preop Pneumonia TEST” and click Save Changes | The Variable Definition List how displays “Preop Pneumonia TEST” |  |
|  | **VP** | Navigate back to the General Surgery page | Verify that “Preop Pneumonia TEST” is displayed as the custom variable name |  |
|  | **VP** | * Enter all required fields * check the Preop Pneumonia TEST checkbox * Click Run Calculation | Verify that the Preop Pneumonia TEST variable and the value “Yes” is displayed in the Calculation Inputs section of the Calculation results page |  |
|  | **VP** | * Return to the Administrators page and edit the checkbox variable again * Enter greater than 80 characters and save * Navigate back to the General Surgery screen | Verify that an appropriate error message is displayed for a variable name that is too long (must be 80 characters or less)  (cut and paste this 81 character string into the editable variable box)  012345678901234567890123456789012345678901234567890123456789012345678901234567891 |  |
|  | **VP** | * Return to the Administrators page and edit the checkbox variable again * Enter an 80 character name and save * Navigate back to the General Surgery screen | Verify that the variable name displays correctly.  (cut and paste this 80 character string into the editable variable box)  01234567890123456789012345678901234567890123456789012345678901234567890123456789 |  |
|  | **Step** | * Click on Run a new calculation * Click on the Administration Link * Edit the checkbox variable * Rename to original name – “Preop Pneumonia” * Navigate to the General Surgery page | The custom checkbox variable is displayed as “Preop Pneumonia” |  |
|  |  | End of TC |  |  |

# TC #12 – ASRC-42: Radio Button Custom Variables Display and Modification

**User Story(s):** ASRC-42: Radio Button Custom Variables

**Description –** As a provider, I want the tool to support specialty-specific radio button variables, So that I can intuitively input specialty-specific data.

*Acceptance Criteria:*

* Tool displays at least one functional radio button variable.
* Tool displays entered radio button value on calculation result page.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. This test is dependent on ASRC-154: Change Checkbox Custom Variable Text (see TC 11) and assumes that it has been implemented.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #12 –* Radio Button Custom Variables Display and Modification** | | | | |
|  | **Step** | Login to the ASRC Application as an Administrator | The ASRC application displays and login was successful |  |
|  | **Step** | Select the General Surgery surgical specialty and click continue | The General Surgery screen is displayed |  |
|  | **Step** | Examine the selected Surgical Specialty screen | The “Functional Status” Radio Buttons are displayed |  |
|  | **Step** | Click on the Administration link  (located on Welcome Screen) | The Model Administration page displays. |  |
|  | **VP** | Click on the Edit link for “Functional Status” (A custom Radio Button variable) | Verify that the Display Name for “Functional Status” is displayed and can be selected for editing. |  |
|  | **VP** | Change the Display Name to “Functional Status TEST” and click Save Changes | The Variable Definition List how displays “Functional Status TEST” |  |
|  | **VP** | Navigate back to the General Surgery page | Verify that “Functional Status TEST” displays as the custom radio button variable name. |  |
|  | **VP** | * Enter all required fields * Click the “Functional Status TEST” Radio Button * Click Run Calculation | Verify that the “Functional Status TEST” variable displays in the Calculation Inputs section of the Calculation results page. |  |
|  | **VP** | * Return to the Administrators’ page and edit the radio button variable again * Enter greater than 80 characters and save * Navigate back to the General Surgery screen | Verify that an appropriate error message is displayed for a variable name that is too long (must be 80 characters or less)  (cut and paste this 81 character string into the editable variable box)  012345678901234567890123456789012345678901234567890123456789012345678901234567891 |  |
|  | **VP** | * Return to the Administrators page and edit the radio button variable again * Enter an 80 character name and save * Navigate back to the General Surgery screen | Verify that the variable name displays correctly.  (cut and paste this 80 character string into the editable variable box)  012345678901234567890123456789012345678901234567890123456789012345678901234567890 |  |
|  | **Step** | * Click on Run a new calculation * Click on the Administration Link * Edit the radio button variable * Rename to original name – “Functional Status” * Navigate to the General Surgery page | The custom checkbox variable is displayed as “Functional Status” |  |
|  |  | End of TC |  |  |

# TC #13 – ASRC-120: Alkaline Phosphatase Lab Result Manual WNL/Abnormal

**User Story(s):** ASRC-120: Alkaline Phosphatase Lab Result Manual Within Normal Limits (WNL)/Abnormal

**Description –** As a provider, I want the tool to allow "Presumed WNL" or Presumed Too High (> 125mU/ml) for the Alkaline Phosphatase lab result, So that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* General, Thoracic, Urology, Vascular, and Other Non-Cardiac variable entry pages contains radio buttons to select Alkaline Phosphatase:
* WNL > 125 mU/ml is displayed for Presumed Too High
* Tool displays entry on the calculation results page
* Tool displays the variable in the Laboratory variable Field Group

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #13 –* Alkaline Phosphatase Lab Result Manual WNL/Abnormal** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page examine the available variables | Verify that each specialty contains radio buttons to select Alkaline Phosphatase  AND  The Alkaline Phosphatase variables are in the “Laboratory Values” field group. |  |
|  | **VP** | Select the General Surgery, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select the “Presumed WNL” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed WNL” is displayed for Alkaline Phosphatase for each specialty |  |
|  | **VP** | Select the General Surgery, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select the “Presumed >125mU/ml” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed >125mU/ml” is displayed for Alkaline Phosphatase for each specialty |  |
|  | **VP** | Select the General Surgery, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Don’t select any value for Alkaline Phosphatase * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Please select an option” is displayed for each specialty |  |
|  |  | End of TC |  |  |

# TC #14 – ASRC-84: Alkaline Phosphatase Lab Result Manual Entry Numerical

**User Story(s):** ASRC-84: Alkaline Phosphatase Lab Result Manual Entry Numerical

**Description –** As a provider, I want the tool to allow manual entry of the Alkaline Phosphatase lab result,   
So that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* The calculation result page should display the numerical value if available.
* The tool will accept input that is greater than or equal to 10 and less than or equal to 750.
* Tool displays the variable in the Laboratory variable Field Group

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #14 –* Alkaline Phosphatase Lab Result Manual Entry Numerical** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page examine the available variables | Verify that each specialty contains the Manual Numerical Entry box for Alkaline Phosphatase  AND  The Alkaline Phosphatase manual entry variable is in the “Laboratory Values” field group. |  |
|  | **VP** | Select the General Surgery, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select the Alkaline Phosphatase “Numerical” radio button (do not fill in a value) * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Please enter a valid number” is displayed |  |
|  | **VP** | Select the General Surgery, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select the Alkaline Phosphatase “Numerical” radio button * Fill in a value < 10 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be greater than or equal to 10” is displayed |  |
|  | **VP** | Select the General Surgery, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select the Alkaline Phosphatase “Numerical” radio button * Fill in a value > 750 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be less than or equal to 750” is displayed |  |
|  | **VP** | Select the General Surgery, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select the Alkaline Phosphatase “Numerical” radio button * Fill in a value >= 10 and <= 750 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the calculation runs successfully. |  |
|  |  | End of TC |  |  |

# TC #15 – ASRC-132: Alkaline Phosphatase Lab Result Translation

**User Story(s):** ASRC-132: Alkaline Phosphatase Lab Result Manual Translation

**Description –** As a provider, I want the Alkaline Phosphatase lab result translated into normal (WNL or too high (> 125mU/ml) on the UI, so that I can easily see the result's effect on the calculation.

*Acceptance Criteria:*

* <= 125 the tool displays "WNL (Actual Value:<value>)" or
* 125 the tool displays ">125mU/ml (Actual Value: <value>)

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #15 –* Alkaline Phosphatase Lab Result Translation** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Enter a number >=10 and < 125 in the Alkaline Phosphatase manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “WNL (Actual value:<entered value>) ” is displayed for Alkaline Phosphatase for each specialty |  |
|  | **VP** | Select the General Surgery, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Enter a number >125 and <=750 in the Alkaline Phosphatase manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “>25 mg/dl (Actual value:<entered value>) ” is displayed for Alkaline Phosphatase for each specialty |  |
|  | **VP** | Select the General Surgery, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select the “Presumed WNL” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed WNL” is displayed for Alkaline Phosphatase for each specialty |  |
|  | **VP** | Select the General Surgery, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select the “Presumed >125mU/ml” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed >125mU/ml” is displayed for Alkaline Phosphatase for each specialty |  |
|  |  | End of TC |  |  |

# TC #16 – ASRC-119: BUN Lab Result Manual WNL/Abnormal

**User Story(s):** ASRC-119: BUN Lab Result Manual WNL/Abnormal

**Description –** As a provider, I want the tool to allow "Presumed WNL" or Presumed Too High (> 25mg/dl) for the BUN lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* General Surgery, Thoracic, Neurosurgery, Urology, Vascular, and Other Non-Cardiac variable entry page contains radio buttons to select BUN:
  + WNL
  + > 25 mg/dl (Presumed too high)
* Tool displays entry on the calculation results page.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #16 –* BUN Lab Result Manual WNL/Abnormal** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Thoracic, Neurosurgery, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page examine the available variables | Verify that each specialty contains radio buttons to select BUN values  AND  The BUN variables are in the “Laboratory Values” field group |  |
|  | **VP** | Select the General Surgery, Thoracic, Neurosurgery, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select the “Presumed WNL” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed WNL” is displayed for BUN for each specialty |  |
|  | **VP** | Select the General Surgery, Thoracic, Neurosurgery, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select the “Presumed > 25 mg/dl” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed > 25 mg/dl” is displayed for BUN for each specialty |  |
|  | **VP** | Select the General Surgery, Thoracic, Neurosurgery, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Don’t select any value for BUN * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Please select an option” is displayed for each specialty |  |
|  |  | End of TC |  |  |

# TC #17 – ASRC-83: BUN Lab Result Manual Entry Numerical

**User Story(s):** ASRC-83: BUN Lab Result Manual Entry Numerical

**Description –** As a provider, I want the tool to allow manual entry of the BUN lab result,   
So that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* The calculation result page should display the numerical value if available.
* The tool will accept input that is greater than or equal to 2 and less than or equal to 90.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #17 –* BUN Lab Result Manual Entry Numerical** | | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Thoracic, Neurosurgery, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page examine the available variables | Verify that each specialty contains the Manual Numerical Entry box for BUN  AND  The BUN manual entry variable is in the “Laboratory Values” field group. |  |
|  | **VP** | Select the General Surgery, Thoracic, Neurosurgery, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select the BUN “Numerical” radio button (do not fill in a value) * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Please enter a valid number” is displayed |  |
|  | **VP** | Select the General Surgery, Thoracic, Neurosurgery, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select the BUN “Numerical” radio button * Fill in a value < 2 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be greater than or equal to 2” is displayed |  |
|  | **VP** | Select the General Surgery, Thoracic, Neurosurgery, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select the “Numerical” radio button * Fill in a value > 90 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be less than or equal to 90” is displayed |  |
|  | **VP** | Select the General Surgery, Thoracic, Neurosurgery, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select the BUN “Numerical” radio button * Fill in a value >= 2 and <= 90 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the calculation runs successfully. |  |
|  |  | End of TC |  |  |

# TC #18 – ASRC-131: BUN Lab Result Translation

**User Story(s):** ASRC-131: BUN Lab Result Manual Translation

**Description –** I want the BUN lab result translated into Presumed WNL or Presumed >25mg/dl (too high) on the UI, So that I can easily see the result's effect on the calculation.

*Acceptance Criteria:*

* <= 25 mg/dl the tool displays "WNL (Actual Value:<value>)" or
* > 25 mg/dl the tool displays “> 25 mg/dl (Actual Value: <value>)

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #18 –* BUN Lab Result Translation** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Thoracic, Neurosurgery, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Enter a number >=2 and <=25 in the BUN manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “WNL (Actual value:<entered value>) ” is displayed for BUN for each specialty |  |
|  | **VP** | Select the General Surgery, Thoracic, Neurosurgery, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Enter a number >25 and <=90 in the BUN manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “>25 mg/dl (Actual value:<entered value>) ” is displayed for BUN for each specialty |  |
|  |  | End of TC |  |  |

# TC #19 – ASRC-18: Serum Albumin Lab Result Manual WNL/Abnormal

**User Story(s):** ASRC-18: Serum Albumin Lab Result Manual WNL/Abnormal

**Description –** As a provider, I want the tool to allow "Presumed WNL" (> 3.5g/dl) or "Presumed Too Low" (<= 3.5g/dl) for the albumin lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, and Vascular variable entry page contains radio buttons to select Serum Albumin:
* “Presumed WNL” is available as a selection *as the leftmost entry*.
* “Presumed <= 3.5g/dl” is available as a selection
* Tool displays entry on the calculation results page.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #19 –* Serum Albumin Lab Result Manual WNL/Abnormal** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, and Vascular surgical specialties and on each specialty page examine the available variables | Verify that each specialty contains radio buttons to select Serum Albumin values  AND  The Serum Albumin variables are in the “Laboratory Values” field group |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, and Vascular surgical specialties and on each specialty page   * Select the “Presumed WNL” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed WNL” is displayed for Serum Albumin for each specialty  AND  Verify that “Presumed WNL” is displayed in the left most column |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, and Vascular surgical specialties and on each specialty page   * Select the “Presumed <= 3.5 g/dl” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed <= 3.5 mg/dl” is displayed for Serum Albumin for each specialty |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, and Vascular surgical specialties and on each specialty page   * Don’t select any value for Serum Albumin * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Please select an option” is displayed for each specialty |  |
|  |  | End of TC |  |  |

# TC #20 – ASRC-17: Serum Albumin Lab Result Manual Entry Numerical

**User Story(s):** ASRC-17: Serum Albumin Lab Result Manual Entry Numerical

**Description –** As a provider, I want the tool to allow manual entry of the Serum Albumin lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* The calculation result page should display the numerical value if available.
* General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, and Vascular variable entry page contains a numerical input box for Serum Albumin:
* The tool will accept input that is greater than or equal to 1 and less than or equal to 6.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #20 –* Serum Albumin Lab Result Manual Entry Numerical** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, and Vascular surgical specialties and on each specialty page examine the available variables | Verify that each specialty contains the Manual Numerical Entry box for Serum Albumin  AND  The Serum Albumin manual entry variable is in the “Laboratory Values” field group. |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, and Vascular surgical specialties and on each specialty page   * Select the Serum Albumin “Numerical” radio button (do not fill in a value) * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Please enter a valid number” is displayed |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, and Vascular surgical specialties and on each specialty page   * Select the Serum Albumin “Numerical” radio button * Fill in a value < 1 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be greater than or equal to 1” is displayed |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, and Vascular surgical specialties and on each specialty page   * Select the Serum Albumin “Numerical” radio button * Fill in a value > 6 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be less than or equal to 6” is displayed |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, and Vascular surgical specialties and on each specialty page   * Select the Serum Albumin “Numerical” radio button * Fill in a value >= 1 and <= 6 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the calculation runs successfully. |  |
|  |  | End of TC |  |  |

# TC #21 – ASRC-15: Serum Albumin Lab Result Translation

**User Story(s):** ASRC-15: Serum Albumin Lab Result Manual Translation

**Description –** As a provider, I want the Serum Albumin lab result translated into "WNL” for values > 3.5g/dl or "<= 3.5g/dl” for values <= 3.5g/dl on the UI, so that I can easily see the result's effect on the calculation.

*Acceptance Criteria:*

* Values between 0 and 3.5g/dl are translated to “<= 3.5g/dl (Actual Value: <entered value>)”
* Values greater than 3.5g/dl and <= 6 are translated to “WNL (Actual Value: <entered value>)”

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #21 –* Serum Albumin Lab Result Translation** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, and Vascular surgical specialties and on each specialty page   * Enter a number >=1 and <=6 in the Serum Albumin manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “WNL (Actual value:<entered value>) ” is displayed for Serum Albumin for each specialty |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, and Vascular surgical specialties and on each specialty page   * Enter a number >0 and <=3.5 in the Serum Albumin manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “<= 3.5mg/dl (Actual value:<entered value>) ” is displayed for Serum Albumin for each specialty |  |
|  |  | End of TC |  |  |

# TC #22 – ASRC-9: Search for Procedure by CPT Code

**User Story(s):** ASRC-9: Search for Procedure by CPT code

**Description –** As a provider selecting a procedure, I want to search for the procedure by CPT code number, so that I do not have to manually look through 1000’s of procedures.

*Acceptance Criteria*

* The tool will provide a full CPT code match search
* The tool will provide a "starts with" search

This test assumes that TC #5 (Select Surgical Procedure) was already performed.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #22 –* Search for Procedure by CPT code** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery surgical specialty   * Click the “Select” procedure link * Enter “0005F” in the search box * Click “Select” to the right of that procedure | Verify that only the entered value “0005F” is displayed.  AND  Verify that it is selectable by clicking “Select” (the short form of the procedure is displayed) |  |
|  | **VP** | * Click the “Select” surgical procedure link again * Enter a “9” in the search box. | Verify that only CPT codes starting with the number “9” are shown  AND  Verify that all codes displayed are 5 digits in length |  |
|  | **VP** | * Click the “Select” surgical procedure link again * Enter a random number with two digits between 10 and 99 in the Search box. | Verify that only CPT codes starting with those two numbers are shown  (This will work for any combination of the first 4 digits of the CPT code as long as there are corresponding CPT codes to display. Try multiple combinations until you are satisfied it works.) |  |
|  | **VP** | * Click the “Select” surgical procedure link again * Enter 999 in the search box | Verify that no results are shown (there are not any CPT codes that start with 999). |  |
|  |  | End of TC |  |  |

# TC #23 – ASRC-165: Display Patient BMI Categorization

**User Story(s):** ASRC-165: Display Patient BMI Categorization

**Description –** As a provider, I want to see the BMI categorization that the tool automatically derived,   
so that I can identify the way BMI was used in the calculation.

*Acceptance Criteria:*

* Tool displays “Patient BMI Categorization” on the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, Vascular, and Other Non-Cardiac variable entry pages.
* The following categories are selectable in the tool given that the lower bound is always exclusive:
  + - Presumed 0 to 18.5
    - Presumed 18.5 to 25
    - Presumed 25 to 30
    - Presumed >= 30
* Tool displays the selected category on the Results Page.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #23 –* Display Patient BMI Categorization** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page | Verify that Radio Buttons for the BMI Categorization are available on each selected specialty.   * Presumed 0 to 18.5 * Presumed 18.5 to 25 * Presumed 25 to 30 * Presumed >= 30 |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select “Presumed 0 to 18.5” * Select values for all other variables needed for the calculation * Run Calculation | Verify that BMI “Presumed 0 to 18.5” is displayed on the Calculation Results page |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select “Presumed 18.5 to 25” * Select values for all other variables needed for the calculation * Run Calculation | Verify that BMI “Presumed 18.5 to 25” is displayed on the Calculation Results page |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select “Presumed 25 to 30” * Select values for all other variables needed for the calculation * Run Calculation | Verify that BMI “Presumed 25 to 30” is displayed on the Calculation Results page |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Select “Presumed >= 30” * Select values for all other variables needed for the calculation * Run Calculation | Verify that BMI “Presumed >= 30” is displayed on the Calculation Results page |  |
|  |  | End of TC |  |  |

# TC #24 – ASRC-114: WBC Lab Result Manual WNL/Abnormal

**User Story(s):** ASRC-114: White Blood Cell (WBC) Lab Result Manual WNL/Abnormal

**Description –** As a provider, I want the tool to allow "Presumed WNL" (< 11.0x1000mm^3) or "Presumed > 11.0x1000/mm^3" for the WBC lab result, So that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* Neurosurgery, Orthopedics, Thoracic, Urology, Vascular, and All Other Non-Cardiac variable entry pages contains radio buttons to select WBC:
* "Presumed WNL" is available as a selection
* "Presumed > 11.0x1000/mm^3" is available as a selection
* Tool displays entry on the calculation results page.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #24 –* WBC Lab Result Manual WNL/Abnormal** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the Neurosurgery, Orthopedics, Thoracic, Urology, Vascular, and All Other Non-Cardiac surgical specialties and on each specialty page examine the available variables | Verify that each specialty contains radio buttons to select WBC values  AND  The WBC variables are in the “Laboratory Values” field group |  |
|  | **VP** | Select the Neurosurgery, Orthopedics, Thoracic, Urology, Vascular, and All Other Non-Cardiac surgical specialties and on each specialty page   * Select the WBC “Presumed WNL” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed WNL” is displayed for WBC for each specialty |  |
|  | **VP** | Select the Neurosurgery, Orthopedics, Thoracic, Urology, Vascular, and All Other Non-Cardiac surgical specialties and on each specialty page   * Select the WBC “Presumed > 11.0x1000/mm^3” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed > 11.0x1000/mm^3” is displayed for WBC for each specialty |  |
|  | **VP** | Select the Neurosurgery, Orthopedics, Thoracic, Urology, Vascular, and All Other Non-Cardiac surgical specialties and on each specialty page   * Don’t select any value for WBC * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Please select an option” is displayed for each specialty |  |
|  |  | End of TC |  |  |

# TC #25 – ASRC-78: WBC Lab Result Manual Entry Numerical

**User Story(s):** ASRC-78: WBC Lab Result Manual Entry Numerical

**Description –** As a provider, I want the tool to allow manual entry of the WBC lab result,   
So that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* The calculation result page should display the numerical value if available.
* The Range validation is >= 2 and <=50

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #25 –* WBC Lab Result Manual Entry Numerical** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the Neurosurgery, Orthopedics, Thoracic, Urology, Vascular, and All Other Non-Cardiac surgical specialties and on each specialty page examine the available variables | Verify that each specialty contains the Manual Numerical Entry box for WBC  AND  The WBC manual entry variable is in the “Laboratory Values” field group. |  |
|  | **VP** | Select the Neurosurgery, Orthopedics, Thoracic, Urology, Vascular, and All Other Non-Cardiac surgical specialties and on each specialty page   * Select the WBC “Numerical” radio button (do not fill in a value) * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Please enter a valid number” is displayed |  |
|  | **VP** | Select the Neurosurgery, Orthopedics, Thoracic, Urology, Vascular, and All Other Non-Cardiac surgical specialties and on each specialty page   * Select the WBC “Numerical” radio button * Fill in a value < 2 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be greater than or equal to 2” is displayed |  |
|  | **VP** | Select the Neurosurgery, Orthopedics, Thoracic, Urology, Vascular, and All Other Non-Cardiac surgical specialties and on each specialty page   * Select the WBC “Numerical” radio button * Fill in a value > 50 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be less than or equal to 50” is displayed |  |
|  | **VP** | Select the Neurosurgery, Orthopedics, Thoracic, Urology, Vascular, and All Other Non-Cardiac surgical specialties and on each specialty page   * Select the WBC “Numerical” radio button * Fill in a value >= 2 and <= 50 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the calculation runs successfully. |  |
|  |  | End of TC |  |  |

# TC #26 – ASRC-126: WBC Lab Result Translation

**User Story(s):** ASRC-126: WBC Lab Result Manual Translation

**Description –** As a provider, I want the WBC lab result translated into "WNL" or "> 11.0x1000/mm^3" on the UI, So that I can easily see the result's effect on the calculation.

*Acceptance Criteria:*

* When the user enters a numerical value and runs the calculation, the tool displays the appropriate categorized value from [ASRC-114](https://libertyits.atlassian.net/browse/ASRC-114) (See TC #24) on the results page.
* Values >= 2 and <= 11.0x1000/mm^3 are translated to "WNL (Actual Value:<Entered Value>)"
* Values <= 50 and >=11.0x1000/mm^3 are translated to ">11.0x1000/mm^3 (Actual Value:<Entered Value>)"

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #26–* WBC Lab Result Translation** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the Neurosurgery, Orthopedics, Thoracic, Urology, Vascular, and All Other Non-Cardiac surgical specialties and on each specialty page   * Enter a number >=2 and <=11 in the WBC manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “WNL (Actual value:<entered value>) ” is displayed for WBC for each specialty |  |
|  | **VP** | Select the Neurosurgery, Orthopedics, Thoracic, Urology, Vascular, and All Other Non-Cardiac surgical specialties and on each specialty page   * Enter a number >11 and <=50 in the BUN manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that ">11.0x1000/mm^3 (Actual Value:<Entered Value>)"is displayed for WBC for each specialty |  |
|  |  | End of TC |  |  |

# TC #27 – ASRC-1: Launch from CPRS Tools Menu

**User Story(s):** ASRC-1: Launch From CPRS Tools Menu

**Description –** As a VA clinical user, I want to launch the tool from CPRS, So that the tool is easily accessible from my everyday environment.

*Acceptance Criteria:*

* The ASRC Calculator is available as a selection from the CPRS "Tools" menu
* The ASRC Calculator is launched when selected from the "Tools" menu

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #27– Launch from CPRS Tools Menu*** | | | | |
|  | **Step** | Login to the FTL CPRS application | The CPRS application displays and login was successful |  |
|  | **VP** | From the CPRS Tools Menu select “ASRC” | Verify that the ASRC application is launched. |  |
|  |  | End of TC |  |  |

# TC #28 – ASRC-2: Share patient context with CPRS

**User Story(s):** ASRC-2: Share patient context with CPRS

**Description –** As a VA clinical user, I want the tool to preserve patient context with CPRS, so that I do not have to look up the patient in the tool.

*Acceptance Criteria:*

* After launching the tool from within CPRS, the risk calculation pages display the same patient name as CPRS.
* If the user changes patients in CPRS, the calculation should continue in the tool for the original patient.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #28– Share patient context with CPRS*** | | | | |
|  | **Step** | Login to the FTL CPRS application | The CPRS application displays and login was successful |  |
|  | **Step** | From the CPRS Tools Menu select “ASRC” | Verify that the ASRC application is launched |  |
|  | **VP** | Login to the ASRC tool | Verify that the patient selected in CPRS is shown as the “Patient” in the ASRC tool. |  |
|  | **VP** | In CPRS, select another patient. | Verify that the ASRC tool still displays the patient selected when first logged into CPRS in Step 1. |  |
|  | **VP** | In CPRS, restart the ASRC tool. | Verify that the current patient selected in CPRS is now shown as the Patient in ASRC. |  |
|  |  | End of TC |  |  |

# TC #29 – ASRC-27: Patient Weight 6 Months Prior Manual Entry

**User Story(s):** ASRC-27: Patient Weight 6 Months Prior Manual Entry

**Description –** As a provider, I want the tool to allow manual data entry of the patient's weight 6 months prior, so that I can still perform the risk calculation if it could not be automatically retrieved or if I have information that is more current.

*Acceptance Criteria:*

* Tool displays "Weight 6 Months Ago" entry on the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, Vascular, and Other Non-Cardiac variable entry pages.
* Results page displays the entered number.
* Tool validates that the weight is greater than or equal to 0.
* Tool does not require an entry for the field.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Test User has access to the most current NSO Test Patient spreadsheet for the FY2013 Thoracic model. (The “as tested” version of the spreadsheet will be provided to the Test User.)

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #29 – Patient Weight 6 Months Prior Manual Entry*** | | | | |
|  | **Step** | * Login to the FTL CPRS * Launch the ASRC Application from the CPRS Tools Menu * Login to the ASRC Application as user 11716 (Radiologist) | * CPRS logs in successfully * ASRC launches and logs in successfully |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page examine the available variables | Verify that each specialty contains the Manual Numerical Entry box for Weight and Weight 6 Months Ago  AND  The Weight manual entries variables are in the “Demographics” field group. |  |
|  | **VP** | Select the Thoracic surgical specialty   * Select the values for all variables needed for the calculation IAW the NSO provided Test Patient spreadsheet for PATIENT 1 (see below) * Enter weights that do NOT show a 10% weight loss (e.g., both weight entries are set to the same value) * Run Calculation * CPT = 32670 * Age=40 * DNR=No * Weight=200, Weight 6 months ago=200 * BMI=20 * Alkaline Phosphatase=119 * BUN=20 * Serum Albumin=4 * WBC=9 * ASA=1 * Diabetes=none * Dialysis=none * Dyspnea=none * Functional=independent * COPD=No * Preop Disseminated Cancer=No * Preop Pneumonia=No * Previous PTCA=No * Steroid=No * Ventilation within 48 hours=No | Verify that the Value for calculated risk is “.5” |  |
|  | **VP** | Select the Thoracic surgical specialty   * Select the values for all variables needed for the calculation IAW the NSO provided Test Patient spreadsheet for PATIENT 1 (see below) * Leave both the weight entries blank * Run Calculation   Thoracic model data for Patient 1   * CPT = 32670 * Age=40 * DNR=No * Weight=blank, Weight 6 months ago=blank * BMI=20 * Alkaline Phosphatase=119 * BUN=20 * Serum Albumin=4 * WBC=9 * ASA=1 * Diabetes=none * Dialysis=none * Dyspnea=none * Functional=independent * COPD=No * Preop Disseminated Cancer=No * Preop Pneumonia=No * Previous PTCA=No * Steroid=No * Ventilation within 48 hours=No | Verify that the Value for calculated risk is “.5” |  |
|  | **VP** | Select the Thoracic surgical specialty   * Select the values for all variables needed for the calculation IAW the NSO provided Test Patient spreadsheet for PATIENT 6 (see below) * Enter weights that DO show a 10% weight loss * Run Calculation * CPT = 43122 * Age=65 * DNR=No * Weight=200 : Weight 6 months ago=250 * BMI=30 * Alkaline Phosphatase=80 * BUN=18 * Serum Albumin=3.4 * WBC=7 * ASA=3 * Diabetes=Insulin * Dialysis=Yes * Dyspnea=Moderate * Functional=Totally dependent * COPD=Yes * Preop Disseminated Cancer=Yes * Preop Pneumonia=Yes * Previous PTCA=Yes * Steroid=Yes * Ventilation within 48 hours=Yes | Verify that the Value for calculated risk is “75.4” |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedic, Thoracic, Urology, Vascular, and Other Non-Cardiac surgical specialties and on each specialty page   * Fill in Weight as -1 * Fill in Weight 6 Months ago as “two” * Select values for all other variables needed for the calculation * Run Calculation | Verify that   * To the right of Weight - Message “Value must be greater than or equal to 0.” is displayed * To the right of Weight 6 Months Ago - Message “Please Enter A Valid Number” is displayed |  |
|  |  | End of TC |  |  |

# TC #30 – ASRC-43: FY2013 Thoracic 30-Day Risk Model

**User Story(s):** ASRC-43: FY2013 Thoracic 30-Day Risk Model

**Description –** As a provider, I want the tool to perform the FY2013 Thoracic 30-day risk calculation, so that I know the patient's 30-day mortality risk for the particular procedure.

*Acceptance Criteria:*

* All standard variables and specialty-specific custom variables are considered.
* The result must match the test patient set provided by the NSO, excluding the rows that imply features that have not been implemented.
* The tool clearly delineates which input controls belong to which variable names.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Test User has access to the most current NSO Test Patient spreadsheet for the FY2013 Thoracic model (The “as tested” version of the spreadsheet will be provided to the Test User.)

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #30 – FY2013 Thoracic 30-day Risk Model*** | | | | |
|  | **Step** | * Login to the FTL CPRS * Launch the ASRC Application from the CPRS Tools Menu * Login to the ASRC Application as user 11716 (Radiologist) | * CPRS logs in successfully * ASRC launches and logs in successfully |  |
|  | **VP** | Select the Thoracic surgical specialty   * Select the values for all variables needed for the calculation IAW the NSO provided Test Patient spreadsheet for PATIENT 1 (see below) * Either enter weights that do NOT show a 10% weight loss (e.g., both weight entries are set to the same value) or leave the “Weight” entries blank. * Run Calculation * CPT = 32670 * Age=40 * DNR=No * Weight=200, Weight 6 months ago=200 * BMI=20 * Alkaline Phosphatase=119 * BUN=20 * Serum Albumin=4 * WBC=9 * ASA=1 * Diabetes=none * Dialysis=none * Dyspnea=none * Functional=independent * COPD=No * Preop Disseminated Cancer=No * Preop Pneumonia=No * Previous PTCA…=No * Steroid=No * Ventilation within 48 hours=No | Verify that the Value for calculated risk is “.5” |  |
|  | **VP** | Select the Thoracic surgical specialty   * Select the values for all variables needed for each patient IAW the NSO provided spreadsheet for the FY2013 Thoracic Model. * Run the Calculation for each model. | Verify the expected “Calculated Risk” result is consistent with the spreadsheet.  (Note: If discrepancies with the test patient data are found, please note the exact test patient number and the nature of the issue.) |  |
|  |  | End of TC |  |  |

# TC #31 – ASRC-113: Creatinine Lab Result Manual WNL/Abnormal

**User Story(s):** ASRC-113: Creatinine Lab Result Manual WNL/Abnormal

**Description –** As a provider, I want the tool to allow "Presumed WNL"(>0 and <=1.2), "Presumed >1.2 mg/dl" or "Presumed WNL” (Cardiac), "Presumed > 3.0 mg/dl" (Cardiac), or "Presumed < 1.5 mg/dl" (Cardiac) for the Creatinine lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* General Surgery, Neurosurgery, Orthopedics, Urology, Vascular, and Other Surgical Specialties variable entry page contains radio buttons to select Creatinine:
* “Presumed WNL” (>0 and <=1.2)
* “Presumed >1.2 mg/dl”
* Tool displays entry on the calculation results page
* Cardiac variable entry page contains radio buttons to select Creatinine:
* “Presumed <1.5 mg/dl”
* “Presumed 1.5 to 3.0 mg/dl”
* “Presumed >3.0 mg/dl”
* Tools displays entry on the calculation results page

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #31 –* Creatinine Lab Result Manual WNL/Abnormal** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | General Surgery, Neurosurgery, Orthopedics, Urology, Vascular, Other Surgical Specialties, and Cardiac and on each specialty page examine the available variables | Verify that each specialty contains radio buttons to select Creatinine values  AND  The Creatinine variables are in the “Laboratory Values” field group |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Urology, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the “Presumed WNL” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed WNL” is displayed for Creatinine for each specialty  AND  Verify that “Presumed WNL” is displayed in the left most column |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Urology, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the “Presumed >1.2 mg/dl” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed >1.2 mg/dl” is displayed for Creatinine for each specialty |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Urology, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Don’t select any value for Creatinine * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Please enter the required value” is displayed for each specialty |  |
|  | **VP** | Select Cardiac and examine the available variables   * Select the “Presumed <1.5 mg/dl” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed <1.5 mg/dl” is displayed for Creatinine  AND  Verify that “Presumed <1.5 mg/dl” is displayed in the left most column |  |
|  | **VP** | Select Cardiac and examine the available variables   * Select the “Presumed 1.5 to 3.0 mg/dl” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed >1.2 mg/dl” is displayed for Creatinine for each specialty  AND  Verify that “Presumed 1.5 to 3.0 mg/dl” is displayed in the middle column |  |
|  | **VP** | Select Cardiac and examine the available variables   * Select the “Presumed >3.0 mg/dl” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed >3.0 mg/dl” is displayed for Creatinine for each specialty |  |
|  | **VP** | Select Cardiac and examine the available variables   * Don’t select any value for Creatinine * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Please enter the required value” is displayed for each specialty |  |
|  |  | End of TC |  |  |

# TC #32 – ASRC-77: Creatinine Lab Result Manual Entry Numerical

**User Story(s):** ASRC-77: Creatinine Lab Result Manual Entry Numerical

**Description –** As a provider, I want the tool to allow manual entry of the Creatinine lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* The calculation result page should display the numerical value if available
* General Surgery, Neurosurgery, Orthopedics, Urology, Vascular, Other Surgical Specialty, and Cardiac variable entry page contains a numerical input box for Creatinine:
* The tool will accept input that is >0 and <=12

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #32 –* Creatinine Lab Result Manual Entry Numerical** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Urology, Vascular, Other Surgical Specialty, and Cardiac and on each specialty page examine the available variables | Verify that each specialty contains the Manual Numerical Entry box for Creatinine  AND  The Creatinine manual entry variable is in the “Laboratory Values” field group |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Urology, Vascular, Other Surgical Specialty, and Cardiac and on each specialty page examine the available variables   * Select the Creatinine “Numerical” radio button (do not fill in a value) * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Please enter the required value” is displayed |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Urology, Vascular, Other Surgical Specialty, and Cardiac and on each specialty page examine the available variables   * Select the Creatinine “Numerical” radio button * Fill in a value < 0 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be greater than 0” is displayed |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Urology, Vascular, Other Surgical Specialty, and Cardiac and on each specialty page examine the available variables   * Select the Creatinine “Numerical” radio button * Fill in a value >12 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be less than or equal to 12” is displayed |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Urology, Vascular, Other Surgical Specialty, and Cardiac and on each specialty page examine the available variables   * Select the Creatinine “Numerical” radio button * Fill in a value >0 and <=12 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the calculation runs successfully. |  |
|  |  | End of TC |  |  |

# TC #33 – ASRC-102: Creatinine Lab Result Translation

**User Story(s):** ASRC-102: Creatinine Lab Result Manual Translation

**Description –** As a provider, I want the Creatinine lab result translated into "Presumed WNL", "Presumed > 1.2 mg/dl" or "Presumed < 1.5 mg/dl" (Cardiac) or "Presumed > 3.0 mg/dl" (Cardiac) on the UI, so that I can easily see the result's effect on the calculation.

*Acceptance Criteria:*

* When the user enters a numerical value and runs the calculation in General Surgery, Neurosurgery, Orthopedics, Urology, Vascular, and Other Surgical Specialties, the tool displays the appropriate categorized value from the results page
* Values >0 and <=1.2 are translated to “Presumed WNL (Actual Value: <entered value>)”
* Values >1.2 and <=12 are translated to “Presumed >1.2 mg/dl (Actual Value: <entered value>)”
* When the user enters a numerical value and runs the calculation in Cardiac, the tool displays the appropriate categorized value from the results page
* Values > 0 and < 1.5 are translated to "Presumed < 1.5 mg/dl (Actual Value<Entered Value>)"
* Values > 1.5 and <= 3.0 are translated to "Presumed 1.5 - 3.0 mg/dl(Actual Value<Entered Value>)”
* Values > 3 and <= 12 are translated to "Presumed > 3.0 mg/dl (Actual Value<Entered Value>)"

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #33 –* Creatinine Lab Result Translation** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Urology, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Enter a number >0 and <=1.2 in the Creatinine manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “WNL (Actual value:<entered value>) ” is displayed for Creatinine for each specialty |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Urology, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Enter a number >1.2 and <=12 in the Creatinine manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed >1.2 mg/dl (Actual Value: <entered value>)” is displayed for Creatinine for each specialty |  |
|  | **VP** | Select Cardiac and examine the available variables   * Enter a number >0 and <1.5 in the Creatinine manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed <1.5 mg/dl (Actual Value: <entered value>)” is displayed for Creatinine |  |
|  | **VP** | Select Cardiac and examine the available variables   * Enter a number >1.5 and <=3.0 in the Creatinine manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed 1.5 – 3.0 mg/dl (Actual Value: <entered value>)” is displayed for Creatinine |  |
|  | **VP** | Select Cardiac and examine the available variables   * Enter a number >3 and <=12 in the Creatinine manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed >3.0 mg/dl (Actual Value: <entered value>)” is displayed for Creatinine |  |
|  |  | End of TC |  |  |

# TC #34 – ASRC-123: Bilirubin Lab Result Manual WNL/Abnormal

**User Story(s):** ASRC-123: Bilirubin Lab Result Manual WNL/Abnormal

**Description –** As a provider, I want the tool to allow "Presumed WNL"(>=0 and <=1) or "Presumed > 1.0 mg/dl" for the Bilirubin lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* General Surgery, Vascular, and Other Surgical Specialty variable entry page contains radio buttons to select Bilirubin:
* “Presumed WNL” (>=0 and <=1)
* “Presumed > 1.0 mg/dl”
* Tool displays entry on the calculation results page

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #34 –* Bilirubin Lab Result Manual WNL/Abnormal** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables | Verify that each specialty contains radio buttons to select Bilirubin values  AND  The Bilirubin variables are in the “Laboratory Values” field group |  |
|  | **VP** | Select the General Surgery, Vascular, and Other Surgical Specialties and on each specialty page   * Select the “Presumed WNL” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed WNL” is displayed for Bilirubin for each specialty  AND  Verify that “Presumed WNL” is displayed in the left most column |  |
|  | **VP** | Select the General Surgery, Vascular, and Other Surgical Specialties and on each specialty page   * Select the “Presumed > 1.0 mg/dl” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed > 1.0 mg/dl” is displayed for Bilirubin for each specialty |  |
|  | **VP** | Select the General Surgery, Vascular, and Other Surgical Specialties and on each specialty page   * Don’t select any value for Bilirubin * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Please enter the required value” is displayed for each specialty |  |
|  |  | End of TC |  |  |

# TC #35 – ASRC-87: Bilirubin Lab Result Manual Entry Numerical

**User Story(s):** ASRC-87: Bilirubin Lab Result Manual Entry Numerical

**Description –** As a provider, I want the tool to allow manual entry of the Bilirubin lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* The calculation result page should display the numerical value if available.
* General Surgery, Vascular, and Other Surgical Specialties variable entry page contains a numerical input box for Bilirubin:
* The tool will accept input that is >=0 and <=6.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #35 –* Bilirubin Lab Result Manual Entry Numerical** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables | Verify that each specialty contains the Manual Numerical Entry box for Bilirubin  AND  The Bilirubin manual entry variable is in the “Laboratory Values” field group |  |
|  | **VP** | Select the General Surgery, Vascular, and Other Surgical Specialties and on each specialty page   * Select the Bilirubin “Numerical” radio button (do not fill in a value) * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Please enter the required value” is displayed |  |
|  | **VP** | Select the General Surgery, Vascular, and Other Surgical Specialties and on each specialty page   * Select the Bilirubin “Numerical” radio button * Fill in a value <0 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be greater than or equal to 0” is displayed |  |
|  | **VP** | Select the General Surgery, Vascular, and Other Surgical Specialties and on each specialty page   * Select the Bilirubin “Numerical” radio button * Fill in a value >6 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be less than or equal to 6” is displayed |  |
|  | **VP** | Select the General Surgery, Vascular, and Other Surgical Specialties and on each specialty page   * Select the Bilirubin “Numerical” radio button * Fill in a value >=0 and <= 6 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the calculation runs successfully. |  |
|  |  | End of TC |  |  |

# TC #36 – ASRC-135: Bilirubin Lab Result Translation

**User Story(s):** ASRC-135: Bilirubin Lab Result Manual Translation

**Description –** As a provider, I want the Bilirubin lab result translated into "Presumed WNL" or "Presumed > 1.0 mg/dl" on the UI, so that I can easily see the result's effect on the calculation.

*Acceptance Criteria:*

* When the user enters a numerical value and runs the calculation in General Surgery, Vascular, or Other Surgical Specialties, the tool displays the appropriate categorized value on the results page
* Values >=0 and <=1 are translated to “WNL (Actual Value: <entered value>)”
* Values > 1 and <=6 translated to “> 1 mg/dl (Actual Value: <entered value>)”

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #36 –* Bilirubin Lab Result Translation** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Vascular, and Other Surgical Specialties and on each specialty page   * Enter a number >=0 and <=1 in the Bilirubin manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “WNL (Actual value:<entered value>) ” is displayed for Bilirubin for each specialty |  |
|  | **VP** | Select the General Surgery, Vascular, and Other Surgical Specialties and on each specialty page   * Enter a number > 1 and <=6 in the Bilirubin manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “> 1 mg/dl (Actual value:<entered value>) ” is displayed for Bilirubin for each specialty |  |
|  |  | End of TC |  |  |

# TC #37 – ASRC-115: Platelets Lab Result Manual WNL/Abnormal

**User Story(s):** ASRC-115: Platelets Lab Result Manual WNL/Abnormal

**Description –** As a provider, I want the tool to allow "Presumed WNL"(>150 and <=750) or "Presumed <=150 x 1000/mm^3" for the Platelets lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* General Surgery, Neurosurgery, Orthopedics, Vascular, and Other Surgical Specialty variable entry page contains radio buttons to select Platelets:
* “Presumed WNL” (>150 and <=750)
* “Presumed <=150 x 1000/mm^3”
* Tool displays entry on the calculation results page

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #37 –* Platelets Lab Result Manual WNL/Abnormal** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables | Verify that each specialty contains radio buttons to select Platelets values  AND  The Platelets variables are in the “Laboratory Values” field group |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the “Presumed WNL” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed WNL” is displayed for Platelets for each specialty  AND  Verify that “Presumed WNL” is displayed in the left most column |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the “Presumed <=150 x 1000/mm^3” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed <=150 x 1000/mm^3” is displayed for Platelets for each specialty |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Don’t select any value for Platelets * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Please enter the required value” is displayed for each specialty |  |
|  |  | End of TC |  |  |

# TC #38 – ASRC-79: Platelets Lab Result Manual Entry Numerical

**User Story(s):** ASRC-79: Platelets Lab Result Manual Entry Numerical

**Description –** As a provider, I want the tool to allow manual entry of the Platelets lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* The calculation result page should display the numerical value if available
* General Surgery, Neurosurgery, Orthopedics, Vascular, and Other Surgical Specialties variable entry page contains a numerical input box for Platelets:
* The tool will accept input that is >=30 and <=750

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #38 –* Platelets Lab Result Manual Entry Numerical** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables | Verify that each specialty contains the Manual Numerical Entry box for Platelets  AND  The Platelets manual entry variable is in the “Laboratory Values” field group |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the Platelets “Numerical” radio button (do not fill in a value) * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Please enter the required value” is displayed |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the Platelets “Numerical” radio button * Fill in a value < 30 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be greater than or equal to 30” is displayed |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the Platelets “Numerical” radio button * Fill in a value >750 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be less than or equal to 750” is displayed |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the Platelets “Numerical” radio button * Fill in a value >=30 and <=750 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the calculation runs successfully. |  |
|  |  | End of TC |  |  |

# TC #39 – ASRC-127: Platelets Lab Result Translation

**User Story(s):** ASRC-127: Platelets Lab Result Manual Translation

**Description –** As a provider, I want the Platelets lab result translated into "Presumed WNL" or "Presumed <=150 x 1000/mm^3" on the UI, so that I can easily see the result's effect on the calculation.

*Acceptance Criteria:*

* When the user enters a numerical value and runs the calculation in General Surgery, Neurosurgery, Orthopedics, Vascular, or Other Surgical Specialties, the tool displays the appropriate categorized value on the results page
* Values >150 and <=750 are translated to “Presumed WNL (Actual Value: <entered value>)”
* Values <=150 are translated to “Presumed <=150 x 1000/mm^3 (Actual Value: <entered value>)”

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #39 –* Platelets Lab Result Translation** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Enter a number >150 and <=750 in the Platelets manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “WNL (Actual value:<entered value>) ” is displayed for Platelets for each specialty |  |
|  | **VP** | Select the General Surgery, Neurosurgery, Orthopedics, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Enter a number <=150 in the Platelets manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “<=150 x 1000/mm^3 (Actual Value: <entered value>)” is displayed for Platelets for each specialty |  |
|  |  | End of TC |  |  |

# TC #40 – ASRC-82: INR Lab Result Manual Entry Numerical

**User Story(s):** ASRC-82: INR Lab Result Manual Entry Numerical

**Description –** As a provider, I want the tool to allow manual entry of the INR lab result,   
so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* The calculation result page should display the numerical value if available
* General Surgery, Neurosurgery, Orthopedic, Other Surgical Specialty, Urology, and Vascular variable entry page contains a numerical input box for INR:
* The tool will accept input that is greater > 0 and <=7

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results (P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #40 –* INR Lab Result Manual Entry Numerical** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | General Surgery, Neurosurgery, Orthopedic, Other Surgical Specialty, Urology, and Vascular surgical specialties and on each specialty page examine the available variables | Verify that each specialty contains the Manual Numerical Entry box for INR  AND  The INR manual entry variable is in the “Laboratory Values” field group. |  |
|  | **VP** | General Surgery, Neurosurgery, Orthopedic, Other Surgical Specialty, Urology, and Vascular surgical specialties and on each specialty page   * Select the INR “Numerical” radio button * Fill in a value < 0 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be greater than 0” is displayed |  |
|  | **VP** | General Surgery, Neurosurgery, Orthopedic, Other Surgical Specialty, Urology, and Vascular surgical specialties and on each specialty page   * Select the INR “Numerical” radio button * Fill in a value > 7 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be less than or equal to 7” is displayed |  |
|  | **VP** | General Surgery, Neurosurgery, Orthopedic, Other Surgical Specialty, Urology, and Vascular surgical specialties and on each specialty page   * Select the Serum Albumin “Numerical” radio button * Fill in a value >0 and <=7 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the calculation runs successfully. |  |
|  |  | End of TC |  |  |

# TC #41 – ASRC-19: Patient Age Automatic Retrieval

**User Story(s):** ASRC-19: Patient Age Automatic Retrieval

**Description –** As a provider, I want the tool to automatically retrieve the patient's age from VistA, so that I do not have to enter it myself.

*Acceptance Criteria:*

* When available in VistA, the Patient Age retrieved from VistA is correctly displayed in the "Age" entry box on all appropriate Surgical Specialty pages.
* When not available in VistA, the Age manual entry box is blank

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results (P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #41 –* Patient Age Automatic Retrieval** | | | | |
|  | **Step** | Login to the CPRS | CPRS application displays and login was successful |  |
|  | **Step** | Choose a patient, note the age of the patient chosen | The patient’s age is noted |  |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select each Surgical Specialty with Age and examine the age input field | Verify the ASRC tool automatically displays the retrieved value from CPRS |  |
|  |  | End of TC |  |  |

# TC #42 – ASRC-92: Patient Gender Automatic Retrieval

**User Story(s):** ASRC-92: Patient Gender Automatic Retrieval

**Description –** As a provider, I want the tool to automatically retrieve the patient's gender from VistA, so that I do not have to enter it myself.

*Acceptance Criteria:*

* When available in VistA, the Patient Gender retrieved from VistA is correctly selected on all appropriate Surgical Specialty pages.
* When not available in VistA, the Gender is not selected.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results (P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #42 –* Patient Gender Automatic Retrieval** | | | | |
|  | **Step** | Login to the CPRS | CPRS application displays and login was successful |  |
|  | **Step** | As you are choosing a patient, note the gender of the patient chosen | Gender for the selected patient is noted. |  |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select each Surgical Specialty with gender and examine the gender radio button. | Verify the ASRC tool automatically displays the retrieved value from CPRS |  |
|  |  | End of TC |  |  |

# TC #43 – ASRC-25: Patient Weight Automatic Retrieval

**User Story(s):** ASRC-25: Patient Weight Automatic Retrieval

**Description –** As a provider, I want the tool to automatically retrieve the patient's current weight from VistA, so that it can calculate BMI automatically if not discretely available.

*Acceptance Criteria:*

* The tool displays the patient weight in pounds from VistA in read-only form. The latest value should be retrieved, no matter how old it is.
* The tool displays the date of the measurement along with the retrieved value.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results (P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #43 –* Patient Weight Automatic Retrieval** | | | | |
|  | **Step** | Login to the CPRS | CPRS application displays and login was successful |  |
|  | **Step** | Choose a patient (twentyseven, patient recommended), note the most recent weight of the patient chosen and the date of the measurement | The patient’s weight is located in CPRS “Vitals” field group |  |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select each Surgical Specialty with Weight and examine the Weight input field. | Verify the ASRC tool automatically displays the most recent retrieved value and the date of the measurement from VistA CPRS |  |
|  |  | End of TC |  |  |

# TC #44 – ASRC-93: Patient BMI Automatic Retrieval

**User Story(s):** ASRC-93: Patient BMI Automatic Retrieval

**Description –** As a provider, I want the tool to automatically retrieve the patient's current BMI from VistA, so that I do not have to enter it myself.

*Acceptance Criteria:*

* The tool initially populates the BMI input with the value retrieved from VistA, if available. The latest value should be retrieved, no matter how old it is.
* The tool displays the date of the measurement along with the retrieved value.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results (P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #44–* Patient BMI Automatic Retrieval** | | | | |
|  | **Step** | Login to the CPRS | CPRS application displays and login was successful |  |
|  | **Step** | Choose a patient (recommend twentyseven,patient), note the BMI of the patient chosen | BMI in CPRS is recorded. |  |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select each Surgical Specialty and examine the BMI field. | Verify the ASRC tool automatically displays the BMI value noted in step 1 from VistA CPRS |  |
|  |  | End of TC |  |  |

# TC #45 – ASRC-240: Change Text to “Other Surgical Specialty”

**User Story(s):** ASRC-240: Change Text to “Other Surgical Specialty”

**Description –** As a non-cardiac provider, I want the other non-cardiac specialties displayed as "Other Surgical Specialty,” so that there is less of a delineation between Cardiac and Non-Cardiac specialties.

*Acceptance Criteria:*

* An “Other Surgical Specialty” radio button is displayed under the “Surgical Specialty” field group in the ASRC tool

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results (P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #45 –* Change Text to “Other Surgical Specialty”** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the “Other Surgical Specialty” radio button and click continue | Verify that the “Other Surgical Specialty” screen is displayed |  |
|  |  | End of TC |  |  |

# TC #46 – ASRC-26: Patient Weight 6 Months Prior Automatic Retrieval

**User Story(s):** ASRC-26: Patient Weight 6 Months Prior Automatic Retrieval

**Description –** As a provider, I want the tool to automatically retrieve the patient's weight 6 months prior from VistA, so that I don't have to enter it myself.

*Acceptance Criteria:*

* The retrieved weight in pounds used for "6 months ago" can be anywhere between 6 and 12 months prior to the most recent weight measurement.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results (P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #46 –* Patient Weight 6 Months Prior Automatic Retrieval** | | | | |
|  | **Step** | Login to the Vitals Graphical User Interface (GUI) | Vitals GUI application displays and login was successful |  |
|  | **Step** | Choose a patient, note the most current weight of the patient and the most recent weight of the patient 6 to 12 months prior (to the most current weight) | NOTE: Twentyseven, patient is recommended. |  |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select each Surgical Specialty with Weight and examine the Weight input field. | Verify the ASRC tool automatically displays the correct values from the Vitals GUI in the “Weight” and “Wt >= 6 Months Ago” boxes and the date of the measurements |  |
|  |  | End of TC |  |  |

# TC #47 – ASRC-106: FY2013 General Surgery 30-Day Risk Model

**User Story(s):** ASRC-106: FY2013 General Surgery 30-Day Risk Model

**Description –** As a provider, I want the tool to perform the FY2013 General Surgery 30-day risk calculation, so that I know the patient's 30-day mortality risk for the particular procedure.

*Acceptance Criteria:*

* All standard variables and specialty-specific custom variables are considered.
* The result must match the test patient set provided by the NSO, excluding the rows that imply features that have not been implemented.
* The tool clearly delineates which input controls belong to which variable names.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Test User has access to the most current NSO Test Patient spreadsheet for the FY2013 General Surgery model (The “as tested” version of the spreadsheet will be provided to the Test User.)

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #47 – FY2013 General Surgery 30-day Risk Model*** | | | | |
|  | **Step** | * Login to the FTL CPRS * Launch the ASRC Application from the CPRS Tools Menu * Login to the ASRC Application as user 11716 (Radiologist) | * CPRS logs in successfully * ASRC launches and logs in successfully |  |
|  | **VP** | Select the General Surgery surgical specialty   * Select the values for all variables needed for the calculation IAW the NSO provided Test Patient spreadsheet for PATIENT 1 (see below) * Either enter weights that do NOT show a 10% weight loss (e.g., both weight entries are set to the same value) or leave the “Weight” entries blank. * Run Calculation | Verify that the Value for calculated risk is “.5” |  |
|  |  | * CPT = 49505 * Age=73 * BMI= 26.28 * ASA= 2 * DNR=No * Emergency Case= No * Dyspnea= with Moderate Exertion * Functional= Independent * Preop ascites= 1 * Intraop ascites= No * Preoperative Pneumonia= No * Preop Disseminated Cancer= No * Intraop Disseminated Cancer= No * Esophageal Varices= No * History of CHF= No * History of COPD= No * History of PVD= No * Impaired Sensorium= No * Radiotherapy in 90 days Preop= No * Preop Renal Failure= No * Ventilation within 48 hrs= No * Wound Class= Clean * Weight Loss >10% 6 mos Preoperative= No * INR= 1 * Alkaline Phosphatase= 97 * Bilirubin= 0.4 * BUN= 30 * Creatinine= 1 * Platelets= 182 * Serum Albumin= 4.1 |  |  |
|  | **VP** | Select the General Surgery surgical specialty   * Select the values for all variables needed for each of the remaining patients IAW the NSO provided Test Patient spreadsheet for the FY2013 General Surgery Model. * Run the Calculation for each model. | Verify the expected “Calculated Risk” result is consistent with the spreadsheet.  (Note: If discrepancies with the test patient data are found, please note the exact test patient number and the nature of the issue.) |  |
|  |  | End of TC |  |  |

# TC #48 – ASRC-116: Hematocrit Lab Result Manual WNL/Abnormal

**User Story(s):** ASRC-116: Hematocrit Lab Result Manual WNL/Abnormal

**Description –** As a provider, I want the tool to allow "Presumed WNL" (>38 and <=60) or "Presumed <=38%" (>=20 and <=38) for the Hematocrit lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* Neurosurgery, Orthopedic, and Other Surgical Specialties variable entry page contains radio buttons to select Hematocrit:
* “Presumed WNL” (>38 and <=60)
* “Presumed <=38%” (>=20 and <=38)
* Tool displays entry on the calculation results page.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #48 –* Hematocrit Lab Result Manual WNL/Abnormal** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, and Other Surgical Specialties and on each specialty page examine the available variables | Verify that each specialty contains radio buttons to select Hematocrit values  AND  The Hematocrit variables are in the “Laboratory Values” field group |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the “Presumed WNL” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed WNL” is displayed for Hematocrit for each specialty  AND  Verify that “Presumed WNL” is displayed in the left most column |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the "Presumed <=38%" radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that "Presumed <=38%" is displayed for Hematocrit for each specialty |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, and Other Surgical Specialties and on each specialty page examine the available variables   * Don’t select any value for Hematocrit * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Please enter the required value” is displayed for each specialty |  |
|  |  | End of TC |  |  |

# TC #49 – ASRC-80: Hematocrit Lab Result Manual Entry Numerical

**User Story(s):** ASRC-80: Hematocrit Lab Result Manual Entry Numerical

**Description –** As a provider, I want the tool to allow manual entry of the Hematocrit lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* Neurosurgery, Orthopedic, and Other Surgical Specialties:
* The calculation result page should display the numerical value if available.
* The Range validation is >=20 and <=60

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #49 –* Hematocrit Lab Result Manual Entry Numerical** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, and Other Surgical Specialties and on each specialty page examine the available variables | Verify that each specialty contains the Manual Numerical Entry box for Hematocrit  AND  The Hematocrit manual entry variable is in the “Laboratory Values” field group |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the Hematocrit “Numerical” radio button (do not fill in a value) * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Please enter the required value” is displayed |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the Hematocrit “Numerical” radio button * Fill in a value <20 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be greater than or equal to 20” is displayed |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the Hematocrit “Numerical” radio button * Fill in a value >60 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be less than or equal to 60” is displayed |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the Hematocrit “Numerical” radio button * Fill in a value >=20 and <=60 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the calculation runs successfully. |  |
|  |  | End of TC |  |  |

# TC #50 – ASRC-128: Hematocrit Lab Result Translation

**User Story(s):** ASRC-128: Hematocrit Lab Result Manual Translation

**Description –** As a provider, I want the Hematocrit lab result translated into " WNL (Actual Value<Entered Value>)" or "<=38% (Actual Value<Entered Value>)" on the UI, so that I can easily see the result's effect on the calculation.

*Acceptance Criteria:*

* Neurosurgery, Orthopedic, and Other Surgical Specialties variable translations:
* Entries >38 and <=60 are translated to "WNL (Actual Value<Entered Value>)"
* Entries >=20 and <=38 are translated to "<=38% (Actual Value<Entered Value>)"

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #50 –* Hematocrit Lab Result Translation** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, and Other Surgical Specialties and on each specialty page examine the available variables   * Enter a number >38 and <=60 in the Hematocrit manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “WNL (Actual value:<entered value>) ” is displayed for Hematocrit for each specialty |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, and Other Surgical Specialties and on each specialty page examine the available variables   * Enter a number >=20 and <=38 in the Hematocrit manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that "<=38% (Actual Value<Entered Value>)" is displayed for Hematocrit for each specialty |  |
|  |  | End of TC |  |  |

# TC #51 – ASRC-117: SGOT Lab Result Manual WNL/Abnormal

**User Story(s):** ASRC-117: SGOT Lab Result Manual WNL/Abnormal

**Description –** As a provider, I want the tool to allow "Presumed WNL" (>=2 and <=40) or "Presumed >40 mU/ml” (>40 and <=300) for the SGOT lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* Neurosurgery, Orthopedic, Urology, Vascular, and Other Surgical Specialties variable entry page contains radio buttons to select SGOT:
* “Presumed WNL” (>=2 and <=40)
* “Presumed >40 mU/ml” (>40 and <=300)
* Tool displays entry on the calculation results page.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #51 –* SGOT Lab Result Manual WNL/Abnormal** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, Urology, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables | Verify that each specialty contains radio buttons to select SGOT values  AND  The SGOT variables are in the “Laboratory Values” field group |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, Urology, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the “Presumed WNL” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed WNL” is displayed for SGOT for each specialty  AND  Verify that “Presumed WNL” is displayed in the left most column |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, Urology, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the “Presumed >40 mU/ml” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that " Presumed >40 mU/ml " is displayed for SGOT for each specialty |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, Urology, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Don’t select any value for SGOT * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Please enter the required value” is displayed for each specialty |  |
|  |  | End of TC |  |  |

# TC #52 – ASRC-81: SGOT Lab Result Manual Entry Numerical

**User Story(s):** ASRC-81: SGOT Lab Result Manual Entry Numerical

**Description –** As a provider, I want the tool to allow manual entry of the SGOT lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* Neurosurgery, Orthopedic, Urology, Vascular, and Other Surgical Specialties:
* The calculation result page should display the numerical value if available.
* The Range validation is >=2 and <=300

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #52 –* SGOT Lab Result Manual Entry Numerical** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, Urology, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables | Verify that each specialty contains the Manual Numerical Entry box for SGOT  AND  The SGOT manual entry variable is in the “Laboratory Values” field group |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, Urology, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the SGOT “Numerical” radio button (do not fill in a value) * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Please enter the required value” is displayed |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, Urology, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the SGOT “Numerical” radio button * Fill in a value <2 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be greater than or equal to 2” is displayed |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, Urology, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the SGOT “Numerical” radio button * Fill in a value >300 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be less than or equal to 300” is displayed |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, Urology, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the SGOT “Numerical” radio button * Fill in a value >=2 and <=300 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the calculation runs successfully. |  |
|  |  | End of TC |  |  |

# TC #53 – ASRC-129: SGOT Lab Result Translation

**User Story(s):** ASRC-120: SGOT Lab Result Manual Translation

**Description –** As a provider, I want the SGOT lab result translated into “WNL (Actual Value<Entered Value>)"or ">40 mU/ml (Actual Value<Entered Value>)" on the UI, so that I can easily see the result's effect on the calculation.

*Acceptance Criteria:*

* Neurosurgery, Orthopedic, Urology, Vascular, and Other Surgical Specialties variable translations:
* Entries >=2 and <=40 are translated to "WNL (Actual Value<Entered Value>)"
* Entries >40 and <=300 are translated to “>40 mU/ml (Actual Value<Entered Value>)"

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #53 –* SGOT Lab Result Translation** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, Urology, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Enter a number >=2 and <=40 in the SGOT manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “WNL (Actual value:<entered value>) ” is displayed for SGOT for each specialty |  |
|  | **VP** | Select the Neurosurgery, Orthopedic, Urology, Vascular, and Other Surgical Specialties and on each specialty page examine the available variables   * Enter a number >40 and <=300 in the SGOT manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “>40 mU/ml (Actual Value<Entered Value>)" is displayed for SGOT for each specialty |  |
|  |  | End of TC |  |  |

# TC #54 – ASRC-121: Serum Sodium Lab Result Manual WNL/Abnormal

**User Story(s):** ASRC-121: Serum Sodium Lab Result Manual WNL/Abnormal

**Description –** As a provider, I want the tool to allow "Presumed <=135 mEq/L” (>=115 and <=135),"Presumed WNL" (>135 and <=145) or "Presumed >145 mEqL” (>145 and <=150) for the Serum Sodium lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* Orthopedic, Urology, and Other Surgical Specialties variable entry page contains radio buttons to select Serum Sodium:
* "Presumed <=135 mEq/L” (>=115 and <=135)
* "Presumed WNL" (>135 and <=145)
* "Presumed >145 mEqL” (>145 and <=150)
* Tool displays entry on the calculation results page.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #54 –* Serum Sodium Lab Result Manual WNL/Abnormal** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the Orthopedic, Urology, and Other Surgical Specialties and on each specialty page examine the available variables | Verify that each specialty contains radio buttons to select Serum Sodium values  AND  The Serum Sodium variables are in the “Laboratory Values” field group |  |
|  | **VP** | Select the Orthopedic, Urology, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the “Presumed WNL” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed WNL” is displayed for Serum Sodium for each specialty  AND  Verify that “Presumed WNL” is displayed in the left most column |  |
|  | **VP** | Select the Orthopedic, Urology, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the “Presumed <=135 mEq/L” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed <=135 mEq/L” is displayed for Serum Sodium for each specialty |  |
|  | **VP** | Select the Orthopedic, Urology, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the “Presumed >145 mEqL” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that " Presumed >145 mEqL " is displayed for Serum Sodium for each specialty |  |
|  | **VP** | Select the Orthopedic, Urology, and Other Surgical Specialties and on each specialty page examine the available variables   * Don’t select any value for Serum Sodium * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Please enter the required value” is displayed for each specialty |  |
|  |  | End of TC |  |  |

# TC #55 – ASRC-85: Serum Sodium Lab Result Manual Entry Numerical

**User Story(s):** ASRC-85: Serum Sodium Lab Result Manual Entry Numerical

**Description –** As a provider, I want the tool to allow manual entry of the Serum Sodium lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* Orthopedic, Urology, and Other Surgical Specialties:
* The calculation result page should display the numerical value if available.
* The Range validation is >=115 and <=150

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #55 –* Serum Sodium Lab Result Manual Entry Numerical** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the Orthopedic, Urology, and Other Surgical Specialties and on each specialty page examine the available variables | Verify that each specialty contains the Manual Numerical Entry box for Serum Sodium  AND  The Serum Sodium manual entry variable is in the “Laboratory Values” field group |  |
|  | **VP** | Select the Orthopedic, Urology, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the Serum Sodium “Numerical” radio button (do not fill in a value) * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Please enter the required value” is displayed |  |
|  | **VP** | Select the Orthopedic, Urology, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the Serum Sodium “Numerical” radio button * Fill in a value <115 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be greater than or equal to 115” is displayed |  |
|  | **VP** | Select the Orthopedic, Urology, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the Serum Sodium “Numerical” radio button * Fill in a value >150 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be less than or equal to 150” is displayed |  |
|  | **VP** | Select the Orthopedic, Urology, and Other Surgical Specialties and on each specialty page examine the available variables   * Select the Serum Sodium “Numerical” radio button * Fill in a value >=115 and <=150 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the calculation runs successfully. |  |
|  |  | End of TC |  |  |

# TC #56 – ASRC-133: Serum Sodium Lab Result Translation

**User Story(s):** ASRC-133: Serum Sodium Lab Result Manual Translation

**Description –** As a provider, I want the Serum Sodium lab result translated into "<=135 mEq/L (Actual Value<Entered Value>)", “WNL (Actual Value<Entered Value>)"or ">145 mEq/L (Actual Value<Entered Value>)" on the UI, so that I can easily see the result's effect on the calculation.

*Acceptance Criteria:*

* Orthopedic, Urology, and Other Surgical Specialties variable translations:
* Entries >=115 and <=135 are translated to “<=135 mEq/L (Actual Value<Entered Value>)”
* Entries >135 and <=145 are translated to "WNL (Actual Value<Entered Value>)"
* Entries >145 and <=150 are translated to “>145 mEqL (Actual Value<Entered Value>)"

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #56 –* Serum Sodium Lab Result Translation** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the Orthopedic, Urology, and Other Surgical Specialties and on each specialty page examine the available variables   * Enter a number >135 and <=145 in the Serum Sodium manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “WNL (Actual value:<entered value>) ” is displayed for Serum Sodium for each specialty |  |
|  | **VP** | Select the Orthopedic, Urology, and Other Surgical Specialties and on each specialty page examine the available variables   * Enter a number >=115 and <=135 in the Serum Sodium manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “<=135 mEq/L (Actual Value<Entered Value>)” is displayed for Serum Sodium for each specialty |  |
|  | **VP** | Select the Orthopedic, Urology, and Other Surgical Specialties and on each specialty page examine the available variables   * Enter a number >145 and <=150 in the Serum Sodium manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “>145 mEqL (Actual Value<Entered Value>)” is displayed for Serum Sodium for each specialty |  |
|  |  | End of TC |  |  |

# TC #57 – ASRC-124: PTT Lab Result Manual WNL/Abnormal

**User Story(s):** ASRC-124: PTT Lab Result Manual WNL/Abnormal

**Description –** As a provider, I want the tool to allow “Presumed WNL" (>=15 and <=35) or "Presumed >35 seconds” (>35 and <=90) for the PTT lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* Vascular variable entry page contains radio buttons to select PTT:
* “Presumed WNL" (>=15 and <=35)
* "Presumed >35 seconds” (>35 and <=90)
* Tool displays entry on the calculation results page.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #57 –* PTT Lab Result Manual WNL/Abnormal** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the Vascular specialty page and examine the available variables | Verify that the Vascular specialty contains radio buttons to select PTT values  AND  The PTT variables are in the “Laboratory Values” field group |  |
|  | **VP** | Select the Vascular specialty page and examine the available variables   * Select the “Presumed WNL” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed WNL” is displayed for PTT for the Vascular specialty  AND  Verify that “Presumed WNL” is displayed in the left most column |  |
|  | **VP** | Select the Vascular specialty page and examine the available variables   * Select the “Presumed >35 seconds” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed >35 seconds” is displayed for PTT for the Vascular specialty |  |
|  | **VP** | Select the Vascular specialty page and examine the available variables   * Don’t select any value for PTT * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Please enter the required value” is displayed for each specialty |  |
|  |  | End of TC |  |  |

# TC #58 – ASRC-88: PTT Lab Result Manual Entry Numerical

**User Story(s):** ASRC-88: PTT Lab Result Manual Entry Numerical

**Description –** As a provider, I want the tool to allow manual entry of the PTT lab result, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

*Acceptance Criteria:*

* Vascular:
* The calculation result page should display the numerical value if available.
* The Range validation is >=15 and <=90

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #58 –* PTT Lab Result Manual Entry Numerical** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the Vascular specialty page and examine the available variables | Verify that the Vascular specialty contains the Manual Numerical Entry box for PTT  AND  The PTT manual entry variable is in the “Laboratory Values” field group |  |
|  | **VP** | Select the Vascular specialty page and examine the available variables   * Select the PTT “Numerical” radio button (do not fill in a value) * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Please enter the required value” is displayed |  |
|  | **VP** | Select the Vascular specialty page and examine the available variables   * Select the PTT “Numerical” radio button * Fill in a value <15 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be greater than or equal to 15” is displayed |  |
|  | **VP** | Select the Vascular specialty page and examine the available variables   * Select the PTT “Numerical” radio button * Fill in a value >90 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be less than or equal to 90” is displayed |  |
|  | **VP** | Select the Vascular specialty page and examine the available variables   * Select the PTT “Numerical” radio button * Fill in a value >=15 and <=90 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the calculation runs successfully. |  |
|  |  | End of TC |  |  |

# TC #59 – ASRC-136: PTT Lab Result Translation

**User Story(s):** ASRC-136: PTT Lab Result Manual Translation

**Description –** As a provider, I want the PTT lab result translated into “WNL (Actual Value<Entered Value>)"or ">35 seconds (Actual Value<Entered Value>)" on the UI, so that I can easily see the result's effect on the calculation.

*Acceptance Criteria:*

* Vascular variable translations:
* Entries >=15 and <=35 are translated to "WNL (Actual Value<Entered Value>)"
* Entries >35 and <=90 are translated to “>35 seconds (Actual Value<Entered Value>)"

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #59 –* PTT Lab Result Translation** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **VP** | Select the Vascular specialty page and examine the available variables   * Enter a number >=15 and <=35 in the PTT manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “WNL (Actual value:<entered value>) ” is displayed for PTT for the Vascular specialty |  |
|  | **VP** | Select the Vascular specialty page examine the available variables   * Enter a number >35 and <=90 in the PTT manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “>35 seconds (Actual Value<Entered Value>)" is displayed for PTT for the Vascular specialty |  |
|  |  | End of TC |  |  |

# TC #60 – ASRC-107: FY2013 Neurosurgery 30-Day Risk Model

**User Story(s):** ASRC-107: FY2013 Neurosurgery 30-Day Risk Model

**Description –** As a provider, I want the tool to perform the FY2013 Neurosurgery 30-day risk calculation, so that I know the patient's 30-day mortality risk for the particular procedure.

*Acceptance Criteria:*

* All standard variables and specialty-specific custom variables are considered.
* The result must match the test patient set provided by the NSO, excluding the rows that imply features that have not been implemented.
* The tool clearly delineates which input controls belong to which variable names.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Test User has access to the most current NSO Test Patient spreadsheet for the FY2013 Neurosurgery model (The “as tested” version of the spreadsheet will be provided to the Test User.)

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #60 – FY2013 Neurosurgery 30-day Risk Model*** | | | | |
|  | **Step** | * Login to the FTL CPRS * Launch the ASRC Application from the CPRS Tools Menu * Login to the ASRC Application as user 11716 (Radiologist) | * CPRS logs in successfully * ASRC launches and logs in successfully |  |
|  | **VP** | Select the Neurosurgery surgical specialty   * Select the values for all variables needed for the calculation IAW the NSO provided Test Patient spreadsheet for PATIENT 1 (see below) * Either enter weights that do NOT show a 10% weight loss (e.g., both weight entries are set to the same value) or leave the “Weight” entries blank. * Run Calculation | Verify that the Value for calculated risk is “1.2” |  |
|  |  | * CPT = 63741 * Age= 84 * BMI= 28.0 * ASA= 3 * DNR= Yes * Emergency Case= No * Dyspnea= None * Functional= Partially Dependent * Bleeding Disorder= No * Chemotherapy= No * Preop Pneumonia= No * CVA w/ Neuro Deficit= No * CVA w/o Neuro Deficit= No * Preop Disseminated Cancer= No * Hypertension Requiring Meds= Yes * Impaired Sensorium= No * Central Nervous System Tumor= No * Ventilation within 48 hrs= No * Open Wound/Wound Infection= No * Weight Loss >10% 6 mos Preoperative= No * INR= 1 * BUN= 20 * Creatinine= 0.69 * Hematocrit= 42 * Serum Albumin= 4.1 * SGOT= 18 * WBC Count= 8.4 |  |  |
|  | **VP** | Select the Neurosurgery surgical specialty   * Select the values for all variables needed for each of the remaining patients IAW the NSO provided Test Patient spreadsheet for the FY2013 Neurosurgery Model. * Run the Calculation for each model. | Verify the expected “Calculated Risk” result is consistent with the spreadsheet.  (Note: If discrepancies with the test patient data are found, please note the exact test patient number and the nature of the issue.) |  |
|  |  | End of TC |  |  |

# TC #61 – ASRC-108: FY2013 Orthopedic 30-Day Risk Model

**User Story(s):** ASRC-107: FY2013 Orthopedic 30-Day Risk Model

**Description –** As a provider, I want the tool to perform the FY2013 Orthopedic 30-day risk calculation, so that I know the patient's 30-day mortality risk for the particular procedure.

*Acceptance Criteria:*

* All standard variables and specialty-specific custom variables are considered.
* The result must match the test patient set provided by the NSO, excluding the rows that imply features that have not been implemented.
* The tool clearly delineates which input controls belong to which variable names.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Test User has access to the most current NSO Test Patient spreadsheet for the FY2013 Orthopedic model (The “as tested” version of the spreadsheet will be provided to the Test User.)

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #61 – FY2013 Orthopedic 30-day Risk Model*** | | | | |
|  | **Step** | * Login to the FTL CPRS * Launch the ASRC Application from the CPRS Tools Menu * Login to the ASRC Application as user 11716 (Radiologist) | * CPRS logs in successfully * ASRC launches and logs in successfully |  |
|  | **VP** | Select the Orthopedic surgical specialty   * Select the values for all variables needed for the calculation IAW the NSO provided Test Patient spreadsheet for PATIENT 1 (see below) * Either enter weights that do NOT show a 10% weight loss (e.g., both weight entries are set to the same value) or leave the “Weight” entries blank. * Run Calculation | Verify that the Value for calculated risk is “7.90” |  |
|  |  | * CPT = 27244 * Age= 95 * BMI= 23.3 * ASA= 4 * DNR= Yes * Emergency Case= No * Preop Ascites= No * Dyspnea= None * Functional= Independent * Wound Class= Clean * CVA w/ Neuro Deficit= No * Dialysis in 2 wks Preop= No * Preop Disseminated Cancer= No * Hemiplegia= No * History of PVD= No * Impaired Sensorium= No * Preop Sepsis= No * Radiotherapy in 90 days Preop= No * Steroid for Chronic Conditions= No * Central Nervous System Tumor= No * Ventilation within 48 hrs= No * Open Wound/Wound Infection= No * Weight Loss >10% 6 mos Preoperative= No * INR= 1 * Creatinine= 0.9 * Hematocrit= 40.9 * Platelets= 197 * Serum Albumin= 3.7 * SGOT= 11.3 * Serum Sodium= 136 * WBC Count= 12.90 |  |  |
|  | **VP** | Select the Orthopedic surgical specialty   * Select the values for all variables needed for each of the remaining patients IAW the NSO provided Test Patient spreadsheet for the FY2013 Orthopedic Model. * Run the Calculation for each model. | Verify the expected “Calculated Risk” result is consistent with the spreadsheet.  (Note: If discrepancies with the test patient data are found, please note the exact test patient number and the nature of the issue.) |  |
|  |  | End of TC |  |  |

# TC #62 – ASRC-210: Re-run Calculation with Modified Inputs

**User Story(s):** ASRC-210: Re-run Calculation with Modified Inputs

**Description –** As a provider, I want to re-run an unsigned calculation with slightly modified input values, so that I can easily test different scenarios.

*Acceptance Criteria:*

* Results page contains a button to return to the variable input, which preserves the current values.
* Clicking the back button does not display any inconsistent data to the user.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #62 –* Re-run Calculation with Modified Inputs** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **Step** | Select the Cardiac specialty page | The selected specialty screen is displayed |  |
|  | **VP** | Select values needed to run the calculation, run the calculation | Verify that the calculation runs successfully |  |
|  | **VP** | Examine the available variables | Verify that the “Return to Variable Input Form” button is under the “Results” field group |  |
|  | **VP** | Select the “Return to Variable Input Form” button | The Variable Input Form displays the variables that were previously entered |  |
|  | **VP** | Repeat steps 2-5 selecting the following specialties one at a time:   * General Surgery * Neurosurgery * Orthopedic * Other Surgical Specialty * Thoracic * Urology * Vascular | Verify same results |  |
|  |  | End of TC |  |  |

# TC #63 – ASRC-49: Sign the Risk Calculation

**User Story(s):** ASRC-63: Sign the Risk Calculation

**Description –** As a provider performing the calculation, I want the tool to ask me to sign the risk calculation, so that the risk calculation will be recorded in the patient's EHR.

*Acceptance Criteria:*

* The tool warns the user before signature that the data will be saved in EHR.
* The tool clearly indicates the patient for the calculation being signed.
* Signature should be via the user's electronic signature code.
* When successfully signed, the tool brings the user to a success page indicating that the calculation has been saved as a note and they may close the browser window.
* Once signed, a calculation may not be altered.
* When the user signs the risk calculation with an invalid signature code an appropriate error message will appear.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #63 –* Sign the Risk Calculation** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **Step** | Select the Cardiac specialty page | The selected specialty screen is displayed |  |
|  | **Step** | Select values needed to run the calculation, run the calculation | Verify that the calculation runs successfully |  |
|  | **VP** | Examine the available variables | Verify that the tool warns the user before signature that the data will be saved in EHR  AND  Verify that the “Sign Calculation” button is under the “Results” field group  AND  You cannot edit the results |  |
|  | **VP** | Sign the risk calculation with an invalid signature code | Verify that an appropriate error message appears |  |
|  | **VP** | Select the “Sign Calculation” button using the appropriate signature code | The tool brings the user to a success page indicating that the calculation has been saved as a note and they may close the browser window |  |
|  | **VP** | Repeat steps 2-6 selecting the following specialties one at a time:   * General Surgery * Neurosurgery * Orthopedic * Other Surgical Specialty * Thoracic * Urology * Vascular | Verify same results |  |
|  |  | End of TC |  |  |

# TC #64 – ASRC-50: Save Result as TIU Note

**User Story(s):** ASRC-50: Save Result as Text Integration Utilities (TIU) Note

**Description –** As a provider signing the calculation, I want the risk calculation input values and resulting outcomes saved as a note visible on the CPRS notes tab, so that I and others can easily see the calculation in the patient's EHR.

*Acceptance Criteria:*

* The Provider cannot alter the note at all before signature.
* The TIU Note with input values and outcomes is visible in the CPRS Notes tab after signature.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #64 –* Save Result as TIU Note** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **Step** | Select the Cardiac specialty page | The selected specialty screen is displayed |  |
|  | **Step** | Select values needed to run the calculation, run the calculation | Verify that the calculation runs successfully |  |
|  | **Step** | Examine the available variables | Verify that the “Sign Calculation” button is under the “Results” field group |  |
|  | **Step** | Select the “Sign Calculation” button using the appropriate signature code | The tool brings the user to a success page indicating that the calculation has been saved as a note and they may close the browser window |  |
|  | **VP** | Refer to the CPRS “Notes” tab in the Vitals GUI | Verify that the TIU Note with input values and outcomes is visible in the CPRS Notes tab after signature. |  |
|  | **VP** | Try altering the Note in the Vitals GUI | Verify that the provider cannot alter the note after signature |  |
|  | **VP** | Repeat steps 2-7 selecting the following specialties one at a time:   * General Surgery * Neurosurgery * Orthopedic * Other Surgical Specialty * Thoracic * Urology * Vascular | Verify same results |  |
|  |  | End of TC |  |  |

# TC #65 – ASRC-109: FY2013 Urology 30-Day Risk Model

**User Story(s):** ASRC-109: FY2013 Urology 30-Day Risk Model

**Description –** As a provider, I want the tool to perform the FY2013 Urology 30-day risk calculation, so that I know the patient's 30-day mortality risk for the particular procedure.

*Acceptance Criteria:*

* All standard variables and specialty-specific custom variables are considered.
* The result must match the test patient set provided by the NSO.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Test User has access to the most current NSO Test Patient spreadsheet for the FY2013 Urology model (The “as tested” version of the spreadsheet will be provided to the Test User.)

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #65 – FY2013 Urology 30-day Risk Model*** | | | | |
|  | **Step** | * Login to the FTL CPRS * Launch the ASRC Application from the CPRS Tools Menu * Login to the ASRC Application as user 11716 (Radiologist) | * CPRS logs in successfully * ASRC launches and logs in successfully |  |
|  | **VP** | Select the Urology surgical specialty   * Select the values for all variables needed for the calculation IAW the NSO provided Test Patient spreadsheet for PATIENT 1 (see below) * Either enter weights that do NOT show a 10% weight loss (e.g., both weight entries are set to the same value) or leave the “Weight” entries blank. * Run Calculation | Verify that the Value for calculated risk is “7.6” |  |
|  |  | * CPT = 52601 * Age= 94 * BMI= 31.7 * ASA= 3 * DNR= Yes * Emergency Case= No * Dyspnea= None * Functional= Partially Dependent * Wound Class= Clean/Contaminated * Preop Ascites= No * Bleeding Disorder= No * CVA with Neuro Deficit= No * Preop Disseminated Cancer= No * Alcohol Use > 2 Drinks Preop= No * Hemiplegia= No * History of CHF= No * History of COPD= No * Hypertension Requiring Medication= No * Impaired Sensorium= No * Preop Sepsis= No * Radiotherapy in 90 days Preop= No * Rest pain/Gangrene= No * Central Nervous System Tumor= No * Weight Loss >10% 6 mos Preoperative= No * INR= 1.22 * Alkaline Phosphate= 78.35 * BUN= 12 * Creatinine= 0.92 * Serum Albumin= 2.7 * SGOT= 20 * Serum Sodium= 136 * WBC Count= 9.6 |  |  |
|  | **VP** | Select the Urology surgical specialty   * Select the values for all variables needed for each of the remaining patients IAW the NSO provided Test Patient spreadsheet for the FY2013 Urology Model. * Run the Calculation for each model. | Verify the expected “Calculated Risk” result is consistent with the spreadsheet.  (Note: If discrepancies with the test patient data are found, please note the exact test patient number and the nature of the issue.) |  |
|  |  | End of TC |  |  |

# TC #66 – ASRC-110: FY2013 Vascular 30-Day Risk Model

**User Story(s):** ASRC-110: FY2013 Vascular 30-Day Risk Model

**Description –** As a provider, I want the tool to perform the FY2013 Vascular 30-day risk calculation, so that I know the patient's 30-day mortality risk for the particular procedure.

*Acceptance Criteria:*

* All standard variables and specialty-specific custom variables are considered.
* The result must match the test patient set provided by the NSO.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Test User has access to the most current NSO Test Patient spreadsheet for the FY2013 Vascular model (The “as tested” version of the spreadsheet will be provided to the Test User.)

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #66 – FY2013 Vascular 30-day Risk Model*** | | | | |
|  | **Step** | * Login to the FTL CPRS * Launch the ASRC Application from the CPRS Tools Menu * Login to the ASRC Application as user 11716 (Radiologist) | * CPRS logs in successfully * ASRC launches and logs in successfully |  |
|  | **VP** | Select the Vascular surgical specialty   * Select the values for all variables needed for the calculation IAW the NSO provided Test Patient spreadsheet for PATIENT 1 (see below) * Either enter weights that do NOT show a 10% weight loss (e.g., both weight entries are set to the same value) or leave the “Weight” entries blank. * Run Calculation | Verify that the Value for calculated risk is “6.7” |  |
|  |  | * CPT = 44320 * Age= 95 * BMI= 21.0 * ASA= 3 * DNR= Yes * Emergency Case= Yes * Diabetes= None * Dyspnea= None * Functional= Independent * Wound Class= Clean/Contaminated * Preop Ascites= No * Chemotherapy= No * Preoperative Pneumonia= No * Dialysis in 2 wks Preoperative= No * Preop Disseminated Cancer= No * History of CHF= No * History of COPD= No * Impaired Sensorium= No * Preop Sepsis= No * Weight Loss >10% 6 mos Preoperative= No * INR= 1.1 * Alkaline Phosphate= 59 * Bilirubin= 0.7 * BUN= 19 * Creatinine= 1.0 * Serum Albumin= 3.6 * Platelets= 205 * PTT > 35 Seconds= 32.3 * SGOT= 10 * WBC Count= 8.44 |  |  |
|  | **VP** | Select the Vascular surgical specialty   * Select the values for all variables needed for each of the remaining patients IAW the NSO provided Test Patient spreadsheet for the FY2013 Vascular Model. * Run the Calculation for each model. | Verify the expected “Calculated Risk” result is consistent with the spreadsheet.  (Note: If discrepancies with the test patient data are found, please note the exact test patient number and the nature of the issue.) |  |
|  |  | End of TC |  |  |

# TC #67 – ASRC-112: FY2013 Other Surgical Specialty 30-Day Risk Model

**User Story(s):** ASRC-112: FY2013 Other Surgical Specialty 30-Day Risk Model

**Description –** As a provider, I want the tool to perform the FY2013 Other Surgical Specialty 30-day risk calculation, so that I know the patient's 30-day mortality risk for the particular procedure.

*Acceptance Criteria:*

* All standard variables and specialty-specific custom variables are considered.
* The result must match the test patient set provided by the NSO.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Test User has access to the most current NSO Test Patient spreadsheet for the FY2013 Other Surgical Specialty model (The “as tested” version of the spreadsheet will be provided to the Test User.)

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #67 – FY2013 Other Surgical Specialty 30-day Risk Model*** | | | | |
|  | **Step** | * Login to the FTL CPRS * Launch the ASRC Application from the CPRS Tools Menu * Login to the ASRC Application as user 11716 (Radiologist) | * CPRS logs in successfully * ASRC launches and logs in successfully |  |
|  | **VP** | Select the Other Surgical Specialty surgical specialty   * Select the values for all variables needed for the calculation IAW the NSO provided Test Patient spreadsheet for PATIENT 1 (see below) * Either enter weights that do NOT show a 10% weight loss (e.g., both weight entries are set to the same value) or leave the “Weight” entries blank. * Run Calculation | Verify that the Value for calculated risk is “.3” |  |
|  |  | * CPT = 47600 * Surgical Specialty= General Surgery * Age= 56 * BMI= 30.2 * ASA= 2 * DNR= No * Emergency Case= No * Dyspnea= No * Functional= Independent * Preop Ascites= No * Intraop Ascites= No * Bleeding Disorder= No * Preoperative Pneumonia= No * Dialysis in 2 wks Preoperative= No * Preop Disseminated Cancer= No * Intraop Disseminated Cancer= No * History of CHF= No * History of COPD= No * History of PVD= No * Hypertension Requiring Medication= No * Impaired Sensorium= No * Preop Sepsis= No * Radiotherapy in 90 Days Preop= No * Preop Renal Failure= No * Steroid for Chronic Conditions= No * Preop Transfusion > 4 Units PRBCs= No * Would Class= Clean/Contaminated * Weight Loss >10% 6 mos Preoperative= No * INR= 1.1 * Alkaline Phosphate= 48 * Bilirubin= 1.2 * BUN= 6 * Creatinine= 0.9 * Hematocrit= 38.5 * Platelets= 182 * Serum Albumin= 141 * WBC Count= 5.3 |  |  |
|  | **VP** | Select the Other Surgical Specialty surgical specialty   * Select the values for all variables needed for each of the remaining patients IAW the NSO provided Test Patient spreadsheet for the FY2013 Other Surgical Specialty Model. * Run the Calculation for each model. | Verify the expected “Calculated Risk” result is consistent with the spreadsheet.  (Note: If discrepancies with the test patient data are found, please note the exact test patient number and the nature of the issue.) |  |
|  |  | End of TC |  |  |

# TC #68 – ASRC-111: FY2013 Cardiac CABG 30-Day Risk Model

**User Story(s):** ASRC-111: FY2013 Cardiac CABG 30-Day Risk Model

**Description –** As a provider, I want the tool to perform the FY2013 Cardiac CABG 30-day risk calculation, so that I know the patient's 30-day mortality risk for the particular procedure.

*Acceptance Criteria:*

* All standard variables and specialty-specific custom variables are considered.
* The result must match the test patient set provided by the NSO.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Test User has access to the most current NSO Test Patient spreadsheet for the FY2013 Cardiac CABG model (The “as tested” version of the spreadsheet will be provided to the Test User.)

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #68 – FY2013 Cardiac CABG 30-day Risk Model*** | | | | |
|  | **Step** | * Login to the FTL CPRS * Launch the ASRC Application from the CPRS Tools Menu * Login to the ASRC Application as user 11716 (Radiologist) | * CPRS logs in successfully * ASRC launches and logs in successfully |  |
|  | **VP** | Select the Cardiac CABG surgical specialty   * Select the values for all variables needed for the calculation IAW the NSO provided Test Patient spreadsheet for PATIENT 1 (see below) * Either enter weights that do NOT show a 10% weight loss (e.g., both weight entries are set to the same value) or leave the “Weight” entries blank. * Run Calculation | Verify that the Value for calculated risk is “0.3” |  |
|  |  | * Age= 83 * Gender= Male * BMI= 22.20 * Creatinine= 0.9 * Canadian Cardiovascular Society Class (Angina)= 1 * ASA= 1 * Cardiomegaly= No * Cerebral Vascular Disease= No * CHF Class= 1 * Diabetes= None * Employment Status= Not Employed * Functional Status= Independent * Homeless= No * LV Contraction Grade= I * PVD= No * Preoperative IABP Use= No * Prior Heart Surgery= No * Resting ST Depression= No * History of COPD= No |  |  |
|  | **VP** | Select the Cardiac CABG surgical specialty   * Select the values for all variables needed for each of the remaining patients IAW the NSO provided Test Patient spreadsheet for the FY2013 Cardiac CABG Model. * Run the Calculation for each model. | Verify the expected “Calculated Risk” result is consistent with the spreadsheet.  (Note: If discrepancies with the test patient data are found, please note the exact test patient number and the nature of the issue.) |  |
|  |  | End of TC |  |  |

# TC #69 – ASRC-238: FY2013 Cardiac Valve/Other 30-Day Risk Model

**User Story(s):** ASRC-238: FY2013 Cardiac Valve/Other CABG 30-Day Risk Model

**Description –** As a provider, I want the tool to perform the FY2013 Cardiac Valve/Other 30-day risk calculation, so that I know the patient's 30-day mortality risk for the particular procedure.

*Acceptance Criteria:*

* All standard variables and specialty-specific custom variables are considered.
* The result must match the test patient set provided by the NSO.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Test User has access to the most current NSO Test Patient spreadsheet for the FY2013 Cardiac Valve/Other model (The “as tested” version of the spreadsheet will be provided to the Test User.)

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #69 – FY2013 Cardiac Valve/Other 30-day Risk Model*** | | | | |
|  | **Step** | * Login to the FTL CPRS * Launch the ASRC Application from the CPRS Tools Menu * Login to the ASRC Application as user 11716 (Radiologist) | * CPRS logs in successfully * ASRC launches and logs in successfully |  |
|  | **VP** | Select the Cardiac Valve/Other surgical specialty   * Select the values for all variables needed for the calculation IAW the NSO provided Test Patient spreadsheet for PATIENT 1 (see below) * Either enter weights that do NOT show a 10% weight loss (e.g., both weight entries are set to the same value) or leave the “Weight” entries blank. * Run Calculation | Verify that the Value for calculated risk is “0.5” |  |
|  |  | * Mitral Valve Replacement alone= No * Mitral Valve Replacement plus CABG= No * Aortic Valve Replacement plus CABG= No * Great Vessel Repair= No * Other Valve Replacement other than GV and AV and MVR= No * Age= 83 * BMI=32.2 * Creatinine= 0.91 * Canadian Cardiovascular Society Class (Angina)= 1 * ASA= 4 * Cardiomegaly= No * CHF Class= 1 * Coronary Artery Disease= None * Diabetes= None * Employment Status= Not Employed * Functional Status= Independent * Hypertension= No * Mitral Regurgitation= None/Trivial * Preop IABP= No * PCI= No * Prior Heart Surgery= No * Priority of Surgery= Elective * Pulmonary Rales= No * Smoking Status= Never |  |  |
|  | **VP** | Select the Cardiac Valve/Other surgical specialty   * Select the values for all variables needed for each of the remaining patients IAW the NSO provided Test Patient spreadsheet for the FY2013 Cardiac Valve/Other Model. * Run the Calculation for each model. | Verify the expected “Calculated Risk” result is consistent with the spreadsheet.  (Note: If discrepancies with the test patient data are found, please note the exact test patient number and the nature of the issue.) |  |
|  |  | End of TC |  |  |

# TC #70 – ASRC-266: Put the Procedure Value at the top of the results screen list

**User Story(s):** ASRC-266: Put the Procedure Value at the top of the results screen list

**Description –** As a provider, I want the selected Procedure value, if available, to be at the top of the results screen's value list, so that I can more easily see what procedure was used in the calculation.

*Acceptance Criteria:*

* The Planned Procedure values appear at the top of the input values list. (This includes a CPT code for non-cardiac and the "Valve/Other" procedure for Cardiac Valve.)

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #70 –* Put the Procedure Value at the top of the results screen list** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **Step** | Access the Cardiac Valve Surgical Specialty | The selected specialty variable entry page is displayed |  |
|  | **Step** | Fill in the variables required to run a calculation and run the calculation | The selected specialty results page is displayed |  |
|  | **VP** | Examine the results page | Validate that the selected procedure is displayed at the top of the variable “Calculation Inputs” section |  |
|  | **VP** | Repeat steps 2 and 3 for each of the following Surgical Specialties:   * General Surgery * Neurosurgery * Orthopedic * Other Surgical Specialty * Thoracic * Urology * Vascular | Validate that the selected procedure is displayed at the top of the variable “Calculation Inputs” section for each specialty. |  |
|  |  | End of TC |  |  |

# TC #71 – ASRC-265: Put the Procedure Value at the top of the TIU Note

**User Story(s):** ASRC-265: Put the Procedure Value at the top of the TIU Note

**Description –** As a provider, I want the selected Procedure value, if available, to be at the top of the generated risk calculation note, so that I can easily scan multiple notes to find one for a particular procedure.

*Acceptance Criteria:*

* The Procedure value immediately follows the specialty value in the note. (This includes a CPT code for non-cardiac and the "Valve/Other" procedure for Cardiac Valve.)

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #71 –* Put the Procedure Value at the top of the TIU Note** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **Step** | Access the Cardiac Valve Surgical Specialty | The selected specialty variable entry page is displayed |  |
|  | **Step** | Fill in the variables required to run a calculation and run the calculation | The selected specialty results page is displayed |  |
|  | **Step** | Sign the calculation  (If you logged into CPRS as “CPRS1234” user, use the signature code: PROGONE) | “Calculation Results Saved Successfully” is displayed |  |
|  | **VP** | In CPRS select the “Notes” page and examine the signed note from step 4 | Validate that the selected procedure is displayed at the top of the Note under the “Specialty” and the procedure is wrapped (if a long procedure name was selected) |  |
|  | **VP** | Repeat steps 2 - 4 for each of the following Surgical Specialties:   * General Surgery * Neurosurgery * Orthopedic * Other Surgical Specialty * Thoracic * Urology * Vascular | Validate that the selected procedure is displayed at the top of the Note under the “Specialty” and the procedure is wrapped (if a long procedure name was selected) |  |
|  |  | End of TC |  |  |

# TC #72 – ASRC-264: Risk Outcomes at the top of the TIU Note

**User Story(s):** ASRC-264: Risk Outcomes at the top of the TIU Note

**Description –** As a provider, I want the calculated outcomes to be near the top of the generated risk calculation note, so that I can easily see the outcomes without scrolling down.

*Acceptance Criteria:*

* The calculated outcomes immediately follow the specialty & procedure. (They precede the input values.)

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #72 –* Risk Outcomes at the top of the TIU Note** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **Step** | Access the Cardiac CABG Surgical Specialty | The selected specialty variable entry page is displayed |  |
|  | **Step** | Fill in the variables required to run a calculation and run the calculation | The selected specialty results page is displayed |  |
|  | **Step** | Sign the calculation  (If you logged into CPRS as “CPRS1234” user, use the signature code: PROGONE) | “Calculation Results Saved Successfully” is displayed  NOTE: Close this page |  |
|  | **VP** | In CPRS select the “Notes” page and examine the signed note from step 4 | Validate that the calculated result is displayed at the top of the Note under the “Procedure” |  |
|  | **VP** | Repeat steps 2 - 4 for each of the following Surgical Specialties:   * Cardiac Valve * General Surgery * Neurosurgery * Orthopedic * Other Surgical Specialty * Thoracic * Urology * Vascular | Validate that the calculated result is displayed at the top of the Note under the “Procedure”  NOTE: The ASRC Application will need to be launched to run each of the listed specialties once the calculation was signed. |  |
|  |  | End of TC |  |  |

# TC #73 – ASRC-269: BMI Upper Range

**User Story(s):** ASRC-269: BMI Upper Range

**Description –** As a provider, I want the tool to reject any BMI value greater than 150, so that I cannot accidentally enter an unrealistic value.

*Acceptance Criteria:*

* The BMI value must be less than or equal to 150

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #73 –* BMI Upper Range** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **Step** | Select the General Surgery specialty | The General Surgery specialty variable input page is displayed |  |
|  | **VP** | In the BMI value entry field enter 150 and click “Run Calculation” | Validate that the value was accepted (no error message was displayed) |  |
|  | **VP** | In the BMI value entry field enter 151 and click “Run Calculation” | Validate that the value was Not accepted and an appropriate error message was displayed |  |
|  |  | End of TC |  |  |

# TC #74 – ASRC-199: Authenticate Administrative Users

**User Story(s):** ASRC-199: Authenticate Administrative Users

**Description –** As an ASRC Administrator, I want to login to the tool without using CPRS, so that I can administer the tool even if I don't have CPRS access.

*Acceptance Criteria:*

* Administrators authenticate to the tool using a separate ASRC-specific username/password pair (not related to their VistA account).
* At least one administrative account exists for testing.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #74 –* Authenticate Administrative Users** | | | | |
|  | **Step** | Access the ASRC Administrator login page  (NOTE 1: In the FTL, open Internet Explorer and go to <http://asrcdev.vaftl.us/srcalc/>)  (NOTE2: Type this Uniform Resource Locator [URL] into the browser running in the FTL) | The ASRC Administrator login page is displayed |  |
|  | **VP** | Login as an ASRC Administrator using the following information:  Username: adminone  Password: Admin1  (NOTE: Make sure the ASRC tool is not already logged in as a regular user) | Validate that the ASRC Administration page is displayed |  |
|  |  | End of TC |  |  |

# TC #75 – ASRC-141: Modify Checkbox Custom Variables

**User Story(s):** ASRC-141: Modify Checkbox Custom Variables

**Description –** As an ASRC Administrator, I want to modify checkbox custom variables, so that I can update the risk models without development effort.

*Acceptance Criteria:*

* Edit page displays the variable's key for reference.
* Edit page displays the risk models that currently use the variable for reference.
* User can modify the display name, up to 80 characters long, consisting of valid characters.
* User can modify the field definition (help text), up to 4000 characters.
* User can modify the variable group.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Administrator Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #75 –* Modify Checkbox Custom Variables** | | | | |
|  | **Step** | Access the ASRC Administrator login page  (NOTE 1: In the FTL, open Internet Explorer and go to <http://asrcdev.vaftl.us/srcalc/>)  (NOTE2: Type this URL into the browser running in the FTL) | The ASRC Administrator login page is displayed |  |
|  | **Step** | Login as an ASRC Administrator using the following information:  Username: adminone  Password: Admin1  (NOTE: Make sure the ASRC tool is not already logged in as a regular user) | The ASRC Administration page is displayed |  |
|  | **VP** | Select Edit for the DNR Checkbox variable | Validate that the DNR Edit Checkbox variable page is displayed |  |
|  | **Step** | Modify the Display text by typing in a new name up to 80 characters in length | The entered text is displayed in the Display Text entry box |  |
|  | **Step** | Modify the help text by entering text up to 4000 characters in length | The entered text is displayed in the Help Text entry box |  |
|  | **Step** | Select a different Group for the DNR  (NOTE: DNR is supposed to be in Demographics.) | The selected Group is displayed in the Group entry box |  |
|  | **VP** | Click “Save Changes” | Validate that the new Display Text for DNR in the variable selection page |  |
|  | **VP** | Click “Edit” for the new variable name | Validate that the Help Text entered earlier is displayed  (The display of the Help Text in the ASRC tool has not been implemented as of Sprint 7) |  |
|  | **Step** | Close the Administration Page by closing the browser | The Administration page is closed |  |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | **Step** | Select General Surgery | The General Surgery variable input page is displayed |  |
|  | **VP** | Examine the variable input page | Validate that the new display text is displayed and is in the BMI group |  |
|  | **Step** | Close the ASRC application | The ASRC application is no longer displayed |  |
|  | **Step** | Access the ASRC Administrator login page  (NOTE 1: In the FTL, open Internet Explorer and go to <http://asrcdev.vaftl.us/srcalc/>)  (NOTE2: Type this URL into the browser running in the FTL) | The ASRC Administrator login page is displayed |  |
|  | **Step** | Login as an ASRC Administrator using the following information:  Username: adminone  Password: Admin1  (NOTE: Make sure the ASRC tool is not already logged in as a regular user) | The ASRC Administration page is displayed |  |
|  | **Step** | Select “Edit” for the Variable Name display text entered in Step 2 | The variable edit page is displayed |  |
|  | **Step** | Set the Display Text to DNR | DNR is displayed in the Display Text entry box |  |
|  | **Step** | Clear the Help Text entry box | The Help Text entry box is blank |  |
|  | **Step** | Set the Group to “Demographics” | Demographics is displayed in the Group entry box |  |
|  | **Step** | Click “Save Changes” | DNR is displayed in the Variable list.  (NOTE: Steps 7-11 can be executed again to see that DNR is correctly displayed) |  |
|  |  | End of TC |  |  |

# TC #76 – ASRC-51: Save Result as Discrete VistA Data

**User Story(s):** ASRC-51: Save Result as Discrete VistA Data

**Description –** As a provider signing the calculation, I want the tool to save the calculation results (including associated patient, CPT code, date and time of calculation, user, and actual outcome results) to VistA surgery as discrete data, so that other packages and systems (e.g., CDW) can access the data.

*Acceptance Criteria:*

* After signing the calculation, the SURGICAL RISK CALCULATIONS FILE (#136.1) contains an entry containing the associated patient, CPT code, date and time of calculation, user, and actual outcome results from the calculation as discrete data.

**Preparation:** None

**Precondition**: Access to VA FTL, ASRC Application, and Putty (an application that allows VistA to be run similar to Attachmate Reflections).

* To add Putty to the desktop access the FTL S:/i824\_asrc folder and double click on the “Setup\_Workstation” file.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #76 –* Save Result as Discrete VistA Data** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) and select a patient without any ASRC generated TIU notes | The ASRC application displays and login was successful |  |
|  | **Step** | Access the Cardiac CABG Surgical Specialty | The selected specialty variable entry page is displayed |  |
|  | **Step** | Fill in the variables required to run a calculation and run the calculation | The selected specialty results page is displayed |  |
|  | **Step** | Sign the calculation  (If you logged into CPRS as “CPRS1234” user, use the signature code: PROGONE) | “Calculation Results Saved Successfully” is displayed  NOTE: Close this page |  |
|  | **Step** | Access UAT VistA through the “Putty” application signing in as   * Access code: cprs1234 * Verify code: cprs4321$ | VistA login is successful |  |
|  | **Step** | Access VA Fileman | The VA Fileman menu is displayed |  |
|  | **VP** | Select Inquire and enter SURGICAL RISK CALCULATIONS at the “OUTPUT FROM WHAT FILE:” prompt | The “Select SURCIAL RISK CALCULATIONS PATIENT” prompt is displayed |  |
|  | **Step** | Enter the patient name selected in CPRS at the “Select SURCIAL RISK CALCULATIONS PATIENT” prompt and click return at the “ANOTHER ONE:” prompt | The “STANDARD CAPTIONED OUTPUT” prompt is displayed |  |
|  | **VP** | Hit return to accept the default at the “STANDARD CAPTIONED OUTPUT” prompt and then select “B” at the Include COMPUTED fields: (N/Y/R/B):” prompt | Validate that the following information from signed calculation is displayed:   * associated patient, * CPT code, * date and time of calculation, * user, and * actual outcome results |  |
|  |  | End of TC |  |  |

# TC #77 – ASRC-224: Add Checkbox Custom Variables

**User Story(s):** ASRC-224: Add Checkbox Custom Variables

**Description –** As an ASRC Administrator, I want to add checkbox custom variables, so that I can update the risk models without development effort.

*Acceptance Criteria:*

* A link to add a new Checkbox variable is available at the bottom of the edit variable page.
* User can set the variable (Internal) key
* User can add the display name, up to 80 characters long, consisting of valid characters.
* User can add the field definition (help text).
* User can add the new variable to a variable group.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Administrator Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #77 – Add Checkbox Custom Variables*** | | | | |
|  | **Step** | Login as an ASRC Administrator using the following information:  Username: adminone  Password: Admin1  (NOTE 1: Make sure the ASRC tool is not already logged in as a regular user)  NOTE 2: Use Internet Explorer in the FTL. Enter this URL: <http://asrcuat.vaftl.us/srcalc/admin>) | The ASRC Admin page is displayed |  |
|  | **VP** | Click the Add New : “Checkbox” button at the bottom of the Admin page | Validate that the Add New Checkbox admin page is displayed |  |
|  | **VP** | Enter an Internal Key | Validate that the entered Internal Key is displayed |  |
|  | **VP** | Enter Display Text | The entered Display Name is displayed  (NOTE: the display text can handle up to 80 characters) |  |
|  | **VP** | Enter “Help Text” | Validate that the entered Help Text is displayed  (NOTE: The help text can handle up to 4000 characters) |  |
|  | **VP** | Select variable Group | Validate that the selected Group is displayed |  |
|  | **VP** | Select VistA Value – N/A | Validate that “N/A” displays (no other choices are available for Checkbox variables) |  |
|  | **VP** | Select Save Changes | Validate that the save was successful (the new checkbox variable is displayed on the main Administration page)  (NOTE: if there were any validation errors (e.g., display name was greater than 80 characters) an appropriate error message displays.) |  |
|  | **VP** | Select Edit for the new checkbox variable created in this TC | Validate all of the previously entered and saved data displays |  |
|  |  | End of TC |  |  |

# TC #78 – ASRC-142: Modify Radio Button Custom Variables

**User Story(s):** ASRC-142: Modify Radio Button Custom Variables

**Description –** As an ASRC Administrator, I want to add, modify, and remove radio button custom variables, so that I can update the risk models without development effort.

*Acceptance Criteria:*

* Edit page displays the variable's key for reference.
* Edit page displays the risk models that currently use the variable for reference.
* User can set the "VistA Retriever" used for the variables, if any.
* User can modify the display name, up to 80 characters long, consisting of valid characters.
* User can modify the field definition (help text), up to 4000 characters.
* User can modify the variable group.
* User can add, modify, and remove available options. Option names are up to 80 characters long, consisting of valid Display Name characters.
* User can change the displayed order of options.
* User can add up to 20 options.
* Once the limit is met, the tool displays a message stating that the maximum options are configured.
* Note: See the Admin UI Mockups on SharePoint for UI mockups.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Administrator Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #78 –* Modify Radio Button Custom Variables** | | | | |
|  | **Step** | Access the ASRC Administrator login page  (NOTE 1: In the FTL, open Internet Explorer and go to <http://asrcdev.vaftl.us/srcalc/>)  (NOTE2: Type this URL into the browser running in the FTL) | The ASRC Administrator login page is displayed |  |
|  | **Step** | Login as an ASRC Administrator using the following information:  Username: adminone  Password: Admin1  (NOTE: Make sure the ASRC tool is not already logged in as a regular user) | The ASRC Administration page is displayed |  |
|  | **VP** | Select Edit for a Test Variable (Radio Button)  (NOTE: If a test Radio Button variable does not exist then create one by using the “Add” feature at the bottom of the ASRC Administration page.) | Validate that the Test variable Edit page is displayed |  |
|  | **Step** | Modify the Display text by typing in a new name up to 80 characters in length | The entered text is displayed in the Display Text entry box |  |
|  | **Step** | Modify the help text by entering text up to 4000 characters in length | The entered text is displayed in the Help Text entry box |  |
|  | **Step** | Select a different Group | The selected Group is displayed in the Group entry box |  |
|  | **VP** | Modify an Option by changing an Option name | The entered text is displayed in the Option entry box |  |
|  | **VP** | Click “Save Changes” | Validate that the new Display Text for the Test Variable is shown on the variable selection page |  |
|  | **VP** | Click “Edit” for the new variable name | Validate all of the previously entered and saved data displays |  |
|  | **Step** | Close the Administration Page by closing the browser | The Administration page is closed |  |
|  |  | End of TC |  |  |

# TC #79 – ASRC-225: Add Radio Button Custom Variables

**User Story(s):** ASRC-225: Add Radio Button Custom Variables

**Description –** As an ASRC Administrator, I want to add radio button custom variables, so that I can update the risk models without development effort.

*Acceptance Criteria:*

* A link to add a new Radio Button variable is available at the bottom of the edit variable page.
* User can set a unique variable key
* User can set the "VistA Retriever" used for the variables, if any.
* User can add the display name, up to 80 characters long, consisting of [valid characters](https://warriortechnology.sharepoint.com/sites/Programs/asrc/Shared%20Documents/Testing/valid_characters.txt).
* User can add the field definition (help text).
* User can modify the variable group.
* User can add available options. Option names are up to 80 characters long, consisting of [valid Display Name characters](https://warriortechnology.sharepoint.com/sites/Programs/asrc/Shared%20Documents/Testing/valid_characters.txt).
* User can specify the displayed order of options.
* User can add up to 20 options.
* Once the limit is met, the tool displays a message stating that the maximum options are configured.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Administrator Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #79 – Add Radio Button Custom Variables*** | | | | |
|  | **Step** | Login as an ASRC Administrator using the following information:  Username: adminone  Password: Admin1  (NOTE 1: Make sure the ASRC tool is not already logged in as a regular user)  (NOTE 2: Use Internet Explorer in the FTL. Enter this URL: <http://asrcuat.vaftl.us/srcalc/admin>) | The ASRC Admin page is displayed |  |
|  | **VP** | Click the Add New : “Radio” button at the bottom of the Admin page | Validate that the Add New Radio Button admin page is displayed |  |
|  | **VP** | Enter an Internal Key | Validate that the entered Internal Key is displayed |  |
|  | **VP** | Enter Display Text | The entered Display Name is displayed  (NOTE: the display text can handle up to 80 characters) |  |
|  | **VP** | Enter “Help Text” | Validate that the entered Help Text is displayed  (NOTE: The help text can handle up to 4000 characters) |  |
|  | **VP** | Select variable Group | Validate that the selected Group is displayed |  |
|  | **VP** | Select VistA Value – N/A | Validate that “N/A” displays (only N/A and Gender are available for Radio Buttons) |  |
|  | **VP** | Click “Add Another” below the Options entry boxes | Validate that another Radio Button Option box displays  (NOTE 1: An appropriate warning displays when the options reach 21)  (NOTE 2: An appropriate error message is displayed if the option length exceeds 80 characters) |  |
|  | **VP** | Select Save Changes | Validate that the save was successful (the new Radio Button variable is displayed on the main Administration page)  (NOTE: if there were any validation errors (e.g., display name was greater than 80 characters) an appropriate error message displays.) |  |
|  | **VP** | Select Edit for the new Radio Button variable created in this TC | Validate all of the previously entered and saved data displays |  |
|  |  | End of TC |  |  |

# TC #80 – ASRC-229: Modify Discrete Numerical Variables

**User Story(s):** ASRC-229: Modify Discrete Numerical Variables

**Description –** As an ASRC Administrator, I want to modify discrete numerical variables, so that I can update the risk models without development effort.

*Acceptance Criteria:*

* Edit page displays the variable's key for reference.
* Edit page displays the risk models that currently use the variable for reference.
* Edit page indicates whether the variable is automatically retrieved from VistA.
* User can modify the display name, up to 80 characters long, consisting of valid characters.
* User can modify the field definition (help text), up to 4000 characters.
* User can modify the variable group.
* User can modify the displayed units, up to 40 characters long, consisting of valid Display Name characters.
* User can modify the valid range.
* User can add, modify, and remove available categories.
* Up to 10 categories may be defined.
* Category names are up to 80 characters long, consisting of valid Display Name characters.
* User can modify the categories' ranges.
* The tool displays a message above the categories indicating that it will automatically sort them.
* Note: See the Admin UI Mockups on SharePoint for UI mockups.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Administrator Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #80 –* Modify Discrete Numerical Custom Variables** | | | | |
|  | **Step** | Access the ASRC Administrator login page  (NOTE 1: In the FTL, open Internet Explorer and go to <http://asrcdev.vaftl.us/srcalc/>)  (NOTE2: Type this URL into the browser running in the FTL) | The ASRC Administrator login page is displayed |  |
|  | **Step** | Login as an ASRC Administrator using the following information:  Username: adminone  Password: Admin1  (NOTE: Make sure the ASRC tool is not already logged in as a regular user) | The ASRC Administration page is displayed |  |
|  | **VP** | Select Edit for a Test Variable (Discrete Numerical)  (NOTE: If a test Discrete Numerical variable does not exist then create one by using the “Add” feature at the bottom of the ASRC Administration page.) | Validate that the Test variable Edit page is displayed |  |
|  | **Step** | Modify the Display text by typing in a new name up to 80 characters in length | The entered text is displayed in the Display Text entry box |  |
|  | **Step** | Modify the help text by entering text up to 4000 characters in length | The entered text is displayed in the Help Text entry box |  |
|  | **Step** | Select a different Group | The selected Group is displayed in the Group entry box |  |
|  | **VP** | Modify an Category by changing an Option name | The entered text is displayed in the Category entry box |  |
|  | **VP** | Modify Units by changing the Units entry | The entered text is displayed in the Units entry box |  |
|  | **VP** | Click “Save Changes” | Validate that the new Display Text for the Test Variable is shown on the variable selection page |  |
|  | **VP** | Click “Edit” for the new variable name | Validate all of the previously entered and saved data displays |  |
|  | **Step** | Close the Administration Page by closing the browser | The Administration page is closed |  |
|  |  | End of TC |  |  |

# TC #81 – ASRC-230: Add Discrete Numerical Variables

**User Story(s):** ASRC-230: Add Discrete Numerical Variables

**Description –** As an ASRC Administrator, I want to add discrete numerical custom variables, so that I can update the risk models without development effort.

*Acceptance Criteria:*

* A link to add a new Discrete Numerical variable is available at the bottom of the edit variable page.
* User can set the variable key
* Edit page allows indication of whether the variable is automatically retrieved from VistA.
* User can add the display name, up to 80 characters long, consisting of valid characters.
* User can add the field definition (help text).
* User can add the variable group.
* User can add the displayed units, up to 40 characters long, consisting of [valid Display Name characters.
* User can add the valid range.
* User can add up to 10 categories. Category names are up to 80 characters long, consisting of [valid Display Name characters.
* User can add the categories' ranges.
* The tool displays a message above the categories indicating that it will automatically sort them.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Administrator Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #81 – Add Discrete Numerical Variables*** | | | | |
|  | **Step** | Login as an ASRC Administrator using the following information:  Username: adminone  Password: Admin1  (NOTE 1: Make sure the ASRC tool is not already logged in as a regular user)  (NOTE 2: Use Internet Explorer in the FTL. Enter this URL: <http://asrcuat.vaftl.us/srcalc/admin>) | The ASRC Admin page is displayed |  |
|  | **VP** | Click the Add New : “Discrete Numerical” button at the bottom of the Admin page | Validate that the Add New Discrete Numerical admin page is displayed |  |
|  | **VP** | Enter an Internal Key | Validate that the entered Internal Key is displayed |  |
|  | **VP** | Enter Display Text | The entered Display Name is displayed  (NOTE: the display text can handle up to 80 characters) |  |
|  | **VP** | Enter “Help Text” | Validate that the entered Help Text is displayed  (NOTE: The help text can handle up to 4000 characters) |  |
|  | **VP** | Select variable Group | Validate that the selected Group is displayed |  |
|  | **VP** | Select VistA Value – N/A | Validate that available discrete variables display and that N/A displays |  |
|  | **VP** | Click “Add Another” below the Categories entry boxes | Validate that another Discrete Numerical category box displays  (NOTE 1: An appropriate warning displays when the options reach 21)  (NOTE 2: An appropriate error message is displayed if the option length exceeds 80 characters) |  |
|  | **VP** | Enter the Upper bounds of each Category  (NOTE: The Upper bound of each category is the Lower bounds of the following category) | The entered Upper bounds display for each category |  |
|  | **VP** | Select Save Changes | Validate that the save was successful (the new Radio Button variable is displayed on the main Administration page)  (NOTE: if there were any validation errors (e.g., display name was greater than 80 characters) an appropriate error message displays.) |  |
|  | **VP** | Select Edit for the new Radio Button variable created in this TC | Validate all of the previously entered and saved data displays |  |
|  |  | End of TC |  |  |

# TC #82 – ASRC-236: Warn the user if overwriting an in-progress calculation

**User Story(s):** ASRC-236: Warn the user if overwriting an in-progress calculation

**Description –** As a provider performing a calculation and starting a new calculation on a different patient, I want the tool to warn me that proceeding will lose current work and overwrite with the information for the new patient, so that the provider can choose not to start the new calculation and lose work.

*Acceptance Criteria:*

* User is warned if a calculation will be overwritten with the info for a new patient if the provider selects a new patient while the calculator is already open with a different one.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #82 – Warn the user if overwriting an in-progress calculation*** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist)  (NOTE: Select TWENTYSEVEN,PATIENT in CPRS before launching ASRC) | The ASRC application displays and login was successful |  |
|  | **VP** | In CPRS select another patient and launch the ASRC tool again. | Validate that this warning displays:  “Calculation in progress for TWENTYSEVEN, PATIENT. Starting a new calculation will overwrite the in-progress calculation.  If you do not wish to start a new calculation, close this browser window or tab.  Click below to start a new calculation  Start New Calculation” |  |
|  | **VP** | Click Start New Calculation | Validate that this warning displays:  “All other calculations are no longer valid and should be closed” |  |
|  | **VP** | Click “ok” | ASRC Surgical Specialty selection window displays |  |
|  |  | End of TC |  |  |

# TC #83 – ASRC-56: VistA Request for Surgery Display

**User Story(s):** ASRC-56: VistA Request for Surgery Display

**Description –** As a licensed provider requesting surgery, I want VistA Surgery to display the most recent risk calculation results for the particular patient and procedure, so that I can include mortality risk in my decision whether to perform the surgery.

*Acceptance Criteria:*

* If VistA Surgery has a risk calculation matching the patient and Planned Principal Procedure Code within the past 60 days, it will display that risk calculation immediately after entering the procedure code.

**Preparation:** None

**Precondition:** Access to VA FTL, ASRC Application, and VistA.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #83 – VistA Request for Surgery Display*** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist)  (NOTE: Select TWENTYSEVEN,PATIENT in CPRS before launching ASRC) | The ASRC application displays and login was successful |  |
|  | **Step** | Select General Surgery specialty | The General Surgery specialty page is displayed |  |
|  | **Step** | Fill out all required entries and run the calculation  CPT Code:  (NOTE: Enter the CPT code above) | The calculation results page is displayed |  |
|  | **Step** | Sign the calculation  (NOTE: CPRS1234 = “progone” as the e-signature) | The calculation results were successfully saved message is displayed.  Close the browser |  |
|  | **Step** | Login to VistA  (use the same Access/Verify code as CPRS) | VistA login successful |  |
|  | **Step** | At an option prompt enter “surgery menu” then enter the division as requested (enter camp) | Surgery menu is displayed |  |
|  | **Step** | * Enter “r” for “request operations” * Enter “r” for “Make Operation Request” * Select patient (TWENTYSEVEN,PATIENT recommended) * Enter “N” to not edit any existing requests * Enter “Y” to create a new request * Enter a Date for the surgery (pick a date that does not already have one scheduled listed above. “T” means “Today” -> T+1 means tomorrow.) * Enter Surgeon (programmer, one recommended) * Enter Attending (Programmer, one recommended) * Enter General for Surgical Specialty (or enter a “?” to see a list of options) * Enter text for Principal Operative Procedure * Enter text for Principal Preoperative diagnosis * Enter a number from 1-5 as the ASA Class * Enter a “N” for Requested Blood Components Available * Enter the CPT code used earlier in step 3 (e.g., 0001F) | Validate that the calculated surgical risk displays following the entry of the CPT code.  (NOTE: UAT testers will not be able to test the 60-day acceptance criteria.) |  |
|  |  | End of TC |  |  |

# TC #84 – ASRC-8: Search for procedure by description

**User Story(s):** ASRC-8: Search for procedure by description

**Description –** As a primary care physician selecting a procedure, I want to search for the procedure by any term in the full, unabbreviated description, so that I can determine the relevant procedure based on a general search without intimate knowledge of the procedure set. (This could apply to non-PCPs, but the PCP use case drives how this feature will be implemented because they need the most information.)

*Acceptance Criteria:*

* Can search to include "all these words."
* Can search to include "any of these words." (Words in "all these words" are still required.)
* The search string can appear anywhere within the words of the description. (E.g., "kle" should match "ankle".)

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #84 – Search for procedure by description*** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist)  (NOTE: Select TWENTYSEVEN,PATIENT in CPRS before launching ASRC) | The ASRC application displays and login was successful |  |
|  | **Step** | Select General Surgery surgical specialty | The General Surgery surgical specialty page is displayed |  |
|  | **Step** | Click Procedure: Select | The Select Procedure screen is displayed |  |
|  | **VP** | Examine the Select Procedure screen | Validate the following search boxes are available:   * “All of these words” * “Any of these words” * “CPT Search” |  |
|  | **VP** | Enter “kle” search text in “All of these words” | Validate the results contain at least one word that contains “kle” (i.e., “ankle”) |  |
|  | **VP** | Enter search text in “All of these words” | Validate the results each contain “All” of the entered words.  (NOTE 1: The FTL browser is very slow. Use short words or type slowly. It may take some time before the search completes.  NOTE 2: The entered words do not need to be in the same order as entered. They must be in the description somewhere.) |  |
|  | **VP** | Enter search text in “Any of these words” | Validate the results each contain “Any” of the entered words.  (NOTE: The FTL browser is very slow. Use short words or type slowly. It may take some time before the search completes.) |  |
|  | **VP** | Enter any combination of search terms in each of the search boxes | Validate correct search results.  (NOTE: The FTL browser is very slow. Use short words or type slowly. It may take some time before the search completes.) |  |
|  |  | End of TC |  |  |

# TC #85 – ASRC-14 (Albumin), ASRC-63 (Creatinine), ASRC-64 (WBC), ASRC-65 (Platelets), ASRC-66 (Hematocrit), ASRC-67 (SGOT), ASRC-68 (INR), ASRC-69 (BUN), ASRC-70 (Alkaline Phosphatase): Lab Automatic Retrieval

**User Story(s):** ASRC-14 (Albumin), ASRC-63 (Creatinine), ASRC-64 (WBC), ASRC-65 (Platelets), ASRC-66 (Hematocrit), ASRC-67 (SGOT), ASRC-68 (INR), ASRC-69 (BUN), ASRC-70 (Alkaline Phosphatase)

**Description –** As a provider, I want the tool to automatically retrieve the patient's <User Story Lab> lab result from VistA, so that I don't have to search for or enter it myself.

*Acceptance Criteria:*

* Tool should display the lab result date on the UI (even though the date is not used in the calculation).
* Tool should pull the latest result no matter how old.
* Tool pulls a lab test with the Laboratory Test Name equal to:
  + Albumin: “ALBUMIN”
  + Creatinine: “CREATININE”
  + WBC: “WBC” or “WHITE BLOOD COUNT”
  + Platelets: “PLATELET COUNT”
  + Hematocrit: “HCT”
  + SGOT: "SGOT", "Transferase Aspartate SGOT", "Aspartate Aminotransferase", or "AST"
  + INR: “INR”
  + BUN: “BUN", "UREA NITROGEN", or "BLOOD UREA NITROGEN"
  + Alkaline Phosphatase: "ALKALINE PHOSPHATASE".
  + Na+: “SODIUM” or “NA”
  + Bilirubin: “TOT.BILIRUBIN”
  + PTT: “PTT”
* Tool displays the value retrieved from VistA, including the VistA units, in static text next to the input.

**Preparation:** None

**Precondition:** Access to VA FTL, ASRC Application, and VistA

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #85 – Lab Automatic Retrieval*** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist)  (NOTE: Select TWENTYSEVEN,PATIENT in CPRS before launching ASRC) | The ASRC application displays and login was successful |  |
|  | **Step** | Access Other Surgical Specialty | The selected specialty variable entry page is displayed |  |
|  | **VP** | Examine the Laboratory Values Section | Validate that the following variables have values and that the lab date and unit are displayed for each:   * WBC * INR * Platelets * Hematocrit * SGOT * Bilirubin * BUN * Creatinine * Albumin * Alkaline Phosphatase * Sodium   (NOTE 1: If the lab does not have a value use the “^BYPASS” function to create that lab.)  (NOTE 2: Lab name variations (e.g., WBC or “WHITE BLOOD COUNT”) can only be tested using a combo of FileMan and ^BYPASS. Do not attempt as part of UAT.) |  |
|  | **Step** | Click “Start New Calculation” | Surgical Specialty selection page is displayed |  |
|  | **Step** | Select Vascular surgical specialty | The Vascular specialty page is displayed |  |
|  | **VP** | Examine the Laboratory Values Section | Validate that the following variables have values and that the lab date and unit are displayed for each:   * PTT * INR * Platelets * SGOT * Bilirubin * BUN * Creatinine * Albumin * Alkaline Phosphatase   (NOTE 1: If the lab does not have a value use the “^BYPASS” function to create that lab.)  (NOTE 2: Lab name variations (e.g., WBC or “WHITE BLOOD COUNT”) can only be tested using a combo of FileMan and ^BYPASS. Do not attempt as part of UAT.). |  |
|  |  | End of TC |  |  |

# TC #86 – ASRC-231: Add rules for applying calculations to a variable; ASRC-5: Modify rules for applying calculations to a variable

**User Story(s):** ASRC-231: Add rules, ASRC-5: Modify rules.

**Description:** As an ASRC Administrator, I want to add and edit new rules to apply to variables without a VistA patch or new release of the tool, so that I can update the risk models without development effort.

*Acceptance Criteria:*

* The user can select to add rules from the ASRC Administration home page
* The user can set the rule's name (up to 80 characters)
* The rule’s name must be unique
* Rules can be made optional
* The user can add variable references up to 10
* The user can modify the rule's name (up to 80 characters).
* The user can add new variable references.
* The user can delete variable references.
* Upon saving the rule, the tool will validate that it can parse the expressions. (it will not actually simulate evaluation of the rule)

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #86 – Add/Edit rules for applying calculations to a variable*** | | | | |
|  | **Step** | Login as an ASRC Administrator using the following information:  Username: adminone  Password: Admin1  (NOTE 1: Make sure the ASRC tool is not already logged in as a regular user)  (NOTE 2: Use Internet Explorer in the FTL. Enter this URL: <http://asrcuat.vaftl.us/srcalc/admin>) | The ASRC Admin page is displayed |  |
|  | ***VP*** | From the ASRC Administration home page click the “Add New:” Rule button | Validate that the entry page for adding a new rule is displayed |  |
|  | ***VP*** | Enter Display Text | Validate that the entered Display Name is displayed  (NOTE: the display text can handle up to 80 characters and must be unique) |  |
|  | ***VP*** | Add variables by selecting them from the “Add New Variable” drop down list at the bottom of the page. Add at least 3 variables for this test  Add up to 10 variables. The attempt to add an 11th variable will generate a warning message | Validate that up to 10 variables can be added and that if the 11th is attempted an error message is displayed |  |
|  | ***VP*** | Enter Summand Expression using variables  (e.g., #coefficient + #age)  (NOTE 1: The variable name (i.e., #age) is case sensitive and must be entered exactly as listed in the “Available variables” list.)  (NOTE 2: Only use variables listed in the “Available Variables” list.) | Validate that the Summand Expression is displayed in the Summand Expression field entry box |  |
|  | ***VP*** | Remove one of the variables added in Step 4 by clicking the Remove Variable button | Validate that the variable is removed from the display |  |
|  | ***VP*** | Select “Apply condition to variable” checkbox | Validate that the “Apply condition to variable” is checked |  |
|  | ***VP*** | Enter an invalid expression that cannot be parsed and click save  (e.g., “#age>(25” ) | Validate that a warning to provide a valid expression displays |  |
|  | ***VP*** | Enter a valid expression for the variable selected in step 6 and click save | Validate that the rule saves successfully |  |
|  | ***VP*** | Select Edit for the rule above | Validate that the rule edit page displays |  |
|  | ***VP*** | Change the display name of the rule, edit the summand, and select to “Bypass rule if missing values”. Save the rule and select to edit that rule again  (NOTE: To validate the “Bypass rule if missing values use the “Weight Loss > 10% 6 mos Preop” rule and deselect the “Bypass rule if missing values”. Close the admin page after saving the rule and open ASRC. Select General Surgery and verify that Weight and Weight 6 months prior are now required to have values. Close ASRC and reset the “Weight Loss > 10% 6 mos Preop” rule by selecting ““Weight Loss > 10% 6 mos Preop” and saving the rule.) | Validate that all of the changes made in step 10 are accurately reflected |  |
|  |  | End of TC |  |  |

# TC #87 – ASRC-288: Display current model configuration; ASRC-289: Edit Model Name

**User Story:** ASRC-288: Display Model, ASRC-289: Edit Model Name

**Description:** (ASRC-288) As an ASRC Administrator, I want to see the current model configuration (including all the terms and coefficients), so that I can see for sure what calculation is being applied. (ASRC-289) As an ASRC Administrator, I want to update the name of an existing risk model, so that I can change the name as appropriate for a new model year.

*Acceptance Criteria:*

* On the ASRC Administration home page there will be a section that lists the current surgical risk models
* An Edit link is displayed for each model
* Clicking Edit will display an Edit page for the model
* The model configuration will be displayed IAW the Admin UI Mockups on SharePoint.
* The Edit page will allow the user to modify the model name up to 80 characters in length
* The Edit page will provide a save function

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #87 – Display current model configuration and Edit Model Name*** | | | | |
|  | **Step** | Login as an ASRC Administrator using the following information:  Username: adminone  Password: Admin1  (NOTE 1: Make sure the ASRC tool is not already logged in as a regular user)  (NOTE 2: Use Internet Explorer in the FTL. Enter this URL: <http://asrcuat.vaftl.us/srcalc/admin>) | The ASRC Admin page is displayed |  |
|  | **VP** | Under Model definitions select edit for any of the listed models | Validate that the Edit model page displays for the selected model |  |
|  | **VP** | Examine the Edit Model page | Validate that   * Model name selected is displayed at the top of the page * Display text displays the selected model name and is editable * Term, (Term) Type, and Coefficient columns display and are populated with model values |  |
|  | **VP** | Change the name of the model selected by clicking in the Display Text entry field. For example, add the word test to the end of the model name.  (NOTE: Remember the original name so you can reset it below) | The new model name is displayed in the Display Text entry field  (NOTE: the display text can handle up to 80 characters and must be unique) |  |
|  | **VP** | Select “Save Changes” | The ASRC Administration home page displays and the changed model name displays correctly in the Model Definitions section |  |
|  | **Step** | Close the Admin browser and login to the ASRC application | The Admin browser is closed and the ASRC application home page is displayed |  |
|  | **VP** | Select the Surgical Specialty associated with the modified model name created above, fill in all required information and select “Run Calculation” | Validate that the new model name is displayed at the bottom of the calculations results page |  |
|  | **Step** | Close the ASRC Application and login to ASRC Administration | The ASRC Administration Home page is displayed |  |
|  | **Step** | Select Edit for the modified model name and reset the name back to the original name (set it back to the name prior to step 3) and select “Save Changes” | The correct model name displays under Model Definitions |  |
|  |  | End of TC |  |  |

# TC #88 – ASRC-4: Modify Terms without Patch

**User Story:** ASRC-4: Modify Terms without Patch

**Description:** As an ASRC Administrator, I want to update the coefficients without modifying VistA or a new release of the tool, so that I can update the formulas without development effort.

*Acceptance Criteria:*

* The coefficients can be modified by the NSO staff via bulk upload.
* The tool accepts a Comma Separated Values (CSV) upload with columns: Type, Key, Option, and Coefficient.
* The upload can contain a constant, variable terms, and rule terms.
* Upon upload, the tool redirects to the model edit page, displaying the current set of terms (either updated or the previous one if there were errors).
* If there were errors, the tool displays the errors above the term table.
* The model configuration is not actually updated until the user clicks Save.

Note: See the Admin UI Mockups on SharePoint for workflow and UI mockups.

**Preparation:**

This test requires these three files available in the FTL (provided in the S: drive i824\_asrc folder)

* Original 2013 model for General Surgery (fy2013\_general\_surgery)
* Correctly modified 2013 model for General Surgery (removed INR) ( fy2013\_general\_surgery\_WO\_INR)
* Incorrectly modified 2013 model for General Surgery (has validation errors) (fy2013\_general\_surgery\_WO\_INR\_invalid\_entry)

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #88 –Modify Terms without Patch*** | | | | |
|  | **Step** | Login as an ASRC Administrator using the following information:  Username: adminone  Password: Admin1  (NOTE 1: Make sure the ASRC tool is not already logged in as a regular user)  (NOTE 2: Use Internet Explorer in the FTL. Enter this URL: <http://asrcuat.vaftl.us/srcalc/admin>) | The ASRC Admin page is displayed |  |
|  | ***STEP*** | Edit the 2013 General Surgery Model | The 2013 General Surgery edit model page displays |  |
|  | ***VP*** | * Select “Import New Model” then browse * Open “fy2013\_general\_surgery\_WO\_INR”. * Click “Import” | Validate that the import was successful by verifying that INR is no longer displayed as a term |  |
|  | ***VP*** | Save the model by clicking “Save Changes” | Validate that the model without INR saves successfully |  |
|  | ***VP*** | Edit the 2013 General Surgery Model | Validate the that 2013 General Surgery Model without INR displays |  |
|  | ***VP*** | * Select “Import New Model” then browse * Open “fy2013\_general\_surgery\_WO\_INR\_invalid\_entry” * Click “Import” | Validate that validation errors display  (NOTE: The tester can edit the import file and either fix the errors identified or create errors) |  |
|  | ***VP*** | * Select “Import New Model” then browse * Open “fy2013\_general\_surgery” * Click “Import” | Validate that the FY2013 General Surgery Model including INR displays |  |
|  | ***Step*** | Save the model by clicking “Save Changes” | The model saves successfully |  |
|  |  | End of TC |  |  |

# TC #89 – ASRC-10: Update procedure set

**User Story:** ASRC-10: Update procedure set

**Description:** As an ASRC Administrator, I want to update the procedure set without modifying VistA or a new release of the tool, so that I can easily update the set without development effort.

*Acceptance Criteria:*

* User can upload a procedure list a la this mockup.
* The uploaded list replaces all existing procedures.

**Preparation:**

This test requires these three files available in the FTL (provided in the S: drive i824\_asrc folder)

* Full 2013 procedures (fy2013\_procedure\_import)
* Short 2013 procedures (4 entries) (fy2013\_procedure\_import\_short)
* Incorrect 2013 procedure list (has validation errors) (fy2013\_procedure\_import\_errors)

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #89 –*** ***Update procedure set*** | | | | |
|  | **Step** | Login as an ASRC Administrator using the following information:  Username: adminone  Password: Admin1  (NOTE 1: Make sure the ASRC tool is not already logged in as a regular user)  (NOTE 2: Use Internet Explorer in the FTL. Enter this URL: <http://asrcuat.vaftl.us/srcalc/admin>) | The ASRC Admin page is displayed |  |
|  | ***VP*** | Select “Manage Procedures” in the Procedures section | Validate that the Update Procedure Set page displays and that there are 9825 current procedures |  |
|  | ***VP*** | * Click “Browse” * Select fy2013\_procedure\_import\_short and Click “Open” * Click “Replace all procedures” | Validate that the procedure list updates successfully and that there are now 4 procedures in the DB |  |
|  | ***VP*** | * Click “Browse” * Select fy2013\_procedure\_import\_short\_errors and Click “Open” * Click “Replace all procedures” | Validate that validation errors are reported  (NOTE: The tester can edit the import file and either fix the errors identified or create new errors) |  |
|  | ***VP*** | * Click “Browse” * Select fy2013\_procedure\_import and Click “Open” * Click “Replace all procedures” | Validate that the procedure list updates successfully and that there are now 9825 procedures in the DB |  |
|  |  | End of TC |  |  |

# TC #90 – ASRC-12: Procedures that do not warrant risk calculations

**User Story:** ASRC-12: Procedures that do not warrant risk calculations

**Description:** As a provider who has selected a procedure, I want the tool to inform me when a procedure has low risk, so that I do not have to complete a full risk calculation.

*Acceptance Criteria:*

* As soon as the user selects an excluded procedure, the tool informs them and will not let them run the calculation.
* The message should be: “The procedure (CPT Code) you selected does not meet eligibility requirements to perform a calculation by the ASRC. Please exit the calculator by closing your browser."
* No data will be stored in VistA in this case.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #90 – Procedures that do not warrant risk calculations*** | | | | |
|  | **STEP** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | ***STEP*** | Select General Surgery specialty and click “Continue”  (NOTE: any specialty that has a procedure selection can be used) | The General Surgery page displays |  |
|  | ***VP*** | * Click Procedure: “Select” * Select procedure “0001F” (does not require a risk calculation) | Validate that “The procedure (CPT Code) you selected does not meet eligibility requirements to perform a calculation by the ASRC. Please exit the calculator by closing your browser." displays |  |
|  |  | End of TC |  |  |

# TC #91 – ASRC-57: VistA Risk Calculation Prompt – New Request; ASRC-58: VistA Immediately Displays Risk Calculation

**User Story:** ASRC-57: VistA Risk Calculation Prompt – New Request, ASRC-58: VistA Immediately Displays Risk Calculation

**Description:** As a licensed provider requesting a surgery that warrants a risk calculation, I want VistA Surgery to prompt me to complete a Risk Calculation if none exists for the particular patient and procedure, so that I can include mortality risk in my decision whether to perform the surgery.

*Acceptance Criteria:*

* If the selected Planned Principal Procedure Code warrants a risk calculation and there is no matching risk calculation within the past 60 days, the user will be prompted to complete a new calculation.
  + When the tool goes to national release, a risk calculation must be done to proceed with the request, but for now (due to the cardiac models); the user can bypass the prompt and continue with the request.
  + If the user does not complete a risk calculation, display the following message: "This request cannot be entered because the procedure (CPT code) you have selected requires an ASRC record result in the past 60 days. The requesting provider must complete and sign an ASRC mortality risk record for this patient and CPT code using the CPRS Tools menu - ASRC."
* This check is only for the option Make Operation Requests, not for other VistA Surgery options.
* If the risk calculation was completed and signed the calculated risk is displayed immediately after hitting return

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests. TC #93 – ASRC-250: VistA Risk Calculation Prompt – Update Request

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #91 – VistA Risk Calculation Prompt – New Request*** | | | | |
|  | **Step** | Login to VistA in the FTL  (use the same Access/Verify code as CPRS) | VistA login successful |  |
|  | **Step** | At an option prompt enter “surgery menu” then enter the division as requested (enter camp) | Surgery menu is displayed |  |
|  | **VP** | * Enter “r” for “request operations” * Enter “r” for “Make Operation Request” * Select patient (TWENTYSEVEN,PATIENT recommended) * Enter “N” to not edit any existing requests * Enter “Y” to create a new request * Enter a Date for the surgery (pick a date that does not already have one scheduled listed above. “T” means “Today” -> T+1 means tomorrow.) * Enter Surgeon (programmer, one recommended) * Enter Attending (Programmer, one recommended) * Enter General for Surgical Specialty (or enter a “?” to see a list of options) * Enter text for Principal Operative Procedure * Enter text for Principal Preoperative diagnosis * Enter a number from 1-5 as the ASA Class * Enter a “N” for Requested Blood Components Available * Enter the CPT code that requires a risk calculation that is not already available for the patient) | Validate that a warning is displayed that the procedure requires a risk calculation and that one is not available within the last 60 days and the user is prompted “Press RETURN once the calculation has been completed” |  |
|  | **Step** | Access the ASRC tool, run and sign a calculation for the selected patient for the selected CPT procedure | The calculation runs and is signed successfully |  |
|  | **VP** | In VistA hit RETURN | The risk calculation results for the selected CPT code displays |  |
|  |  | End of TC |  |  |

# TC #92 – ASRC-250: VistA Risk Calculation Prompt – Update Request

**User Story:** ASRC-250: VistA Risk Calculation Prompt – Update Request

**Description:** As a licensed provider updating a Surgery Request to include a procedure that warrants a risk calculation, I want VistA Surgery to prompt me to complete a Risk Calculation if none exists for the particular patient and procedure, so that I can include mortality risk in my decision whether to perform the surgery.

*Acceptance Criteria:*

* If the selected Planned Principal Procedure Code warrants a risk calculation and there is no matching risk calculation within the past 60 days, the user will be prompted to complete a new calculation.
  + The user can still bypass the prompt and continue the request.
* This check applies only to the VistA option Update Operation Requests (if the user is changing the CPT code) not for other VistA Surgery options.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #92 – VistA Risk Calculation Prompt – Update Request*** | | | | |
|  | **Step** | Login to VistA in the FTL  (use the same Access/Verify code as CPRS) | VistA login successful |  |
|  | **Step** | At an option prompt enter “surgery menu” then enter the division as requested (enter camp) | Surgery menu is displayed |  |
|  | **VP** | * Enter “r” for “request operations” * Enter “r” for “Make Operation Request” * Select patient (TWENTYSEVEN,PATIENT recommended) * Enter “Y” to “update the outstanding request”) * Enter “1” at the “Select Operation Request” prompt (assuming that there were previous surgeries for the selected patient) * Enter “2” to “Update Request Information” * Enter return at the “How long is this procedure” prompt * Enter “3” (Planned Prin Procedure Code) at the “Enter Screen Server Function” prompt * Enter the CPT code that requires a risk calculation that is not already available for the patient) * Hit Return at the Modifier prompt | Validate that a warning is displayed that the procedure requires a risk calculation and that one is not available within the last 60 days and the user is prompted “Press RETURN once the calculation has been completed” |  |
|  | **Step** | Access the ASRC tool, run and sign a calculation for the selected patient for the selected CPT procedure | The calculation runs and is signed successfully |  |
|  | **VP** | In VistA hit RETURN | The risk calculation results for the selected CPT code displays |  |
|  |  | End of TC |  |  |

# TC #93 – ASRC-53: Display Field Data Definition

**User Story:** ASRC-53: Display Field Data Definition

**Description:** As a provider, I want the tool to unobtrusively display data definitions for all input fields (whether automatically retrieved or manually entered), so that I can know exactly what that field means.

Sample field definitions are available on SharePoint.

*Acceptance Criteria:*

* These descriptions will not be outputted into the CPRS Note.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #93 – Display Field Data Definition*** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist) | The ASRC application displays and login was successful |  |
|  | ***Step*** | Select “General Surgery” and click “Continue” | The General Surgery page displays |  |
|  | ***VP*** | Click on a question mark next to a variable name | The help text for that variable is displayed  (NOTE: Click on the question mark again to hide the help) |  |
|  |  | End of TC |  |  |

# TC #94 – ASRC-30: Patient ADL Notes Display

**User Story:** ASRC-30: Patient ADL Notes Display

**Description:** As a provider, I want to see the patient's nursing notes from CPRS, so that I can easily determine ADL status.

*Acceptance Criteria:*

* Tool displays all notes with the "NURSING ADMISSION EVALUATION NOTE" enterprise title for reference.
* Most recent notes should display first.
* Notes should be initially hidden, displayable by clicking an "N" icon similar to the help text.
* For each note, display Local Title, Signed Date, and Note Body.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #94 – Patient ADL Notes Display*** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist)  (NOTE: Select TWENTYSEVEN,PATIENT in CPRS before launching ASRC) | The ASRC application displays and login was successful |  |
|  | ***Step*** | Select “General Surgery” and click “Continue” | The General Surgery page displays |  |
|  | ***VP*** | Click the “N” button next to Functional Status. | Verify that NURSING ADMISSION ASSESSMENT note(s) appear in a text box below the radio buttons. |  |
|  | ***VP*** | Click the “N” button again. | Verify that the text box disappears. |  |
|  |  | End of TC |  |  |

# TC #95 – ASRC-35: Health Factors Automatic Retrieval

**User Story:** ASRC-35: Health Factors Automatic Retrieval

**Description:** As a provider, I want the tool to automatically display the CPRS "Homeless" Clinical Reminder/Note for the patient if it exists, so that it can inform my selection of homeless for the calculation.

*Acceptance Criteria:*

* The health factors will display on every variable entry page, regardless of whether there are associated variables.
* The health factors will display immediately under the ''Clinical Conditions or Diseases - Recent" heading.
* The tool will display the health factor text with its date.
* The tool will not display health factors more than 1 year old.
* The tool will display any of the below health factors for the patient:
  + ALCOHOL - TREATMENT REFERRAL
  + ALCOHOL USE
  + ANTI-DEPRESSANT TREATMENT
  + BINGE DRINKING
  + CURRENT F/U OR RX FOR DEPRESSION
  + DECLINES HOMELESS REFERRAL
  + DEPRESSION ASSESS NEGATIVE (NOT MDD)
  + DEPRESSION ASSESS POSITIVE (MDD)
  + DEPRESSION TO BE MANAGED IN PC
  + GEC HOMELESS
  + GEC HOMELESS SHELTER
  + HISTORY OF AN ALCOHOL PROBLEM
  + HOMELESSNESS SCREENING
  + NON-DRINKER (NO ALCOHOL FOR >1 YR)
  + ONS AA MEDICATIONS-ANTIDEPRESSANTS
  + ONS AA MH TRIGGER ID-BEING HOMELESS
  + ONS RA MEDICATIONS-ANTIDEPRESSANTS
  + OUTSIDE EVAL/TREATMENT FOR DEPRESSION
  + PALLI CONSULT ALCOHOL MISUSE NO
  + PALLI CONSULT ALCOHOL MISUSE YES
  + PC DEPRESSION SCREEN NEGATIVE
  + PC DEPRESSION SCREEN POSITIVE
  + REFER FOR ALCOHOL TREATMENT
  + REFERRED TO HOMELESS PROGRAM
  + REFUSED DEPRESSION RX/INTERVENTION
  + REFUSES MH REFERRAL FOR DEPRESSION

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #95 –Health Factors Automatic Retrieval*** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist)  (NOTE: Select ONE,PATIENT in CPRS before launching ASRC) | The ASRC application displays and login was successful |  |
|  | ***Step*** | Select “General Surgery” and click “Continue” | The General Surgery page displays |  |
|  | ***VP*** | Scroll down to the “Clinical Conditions or Diseases - Recent” group. | Verify that one or more Health Factors are listed, in the format “MM/DD/YY HEALTH FACTOR TEXT”. |  |
|  |  | End of TC |  |  |

# TC #96 – ASRC-32: Non-VA Patient Medications Display

**User Story:** ASRC-32: Non-VA Patient Medications Display

**Description:** As a provider, I want the tool to automatically display Non-VA patient medications from VistA, so that I can see any medications that would affect my decision-making.

* Note: this only involves querying VistA, not other systems.

*Acceptance Criteria:*

* The tool displays Non-VA medications immediately under the Medications heading, as indicated in the attached screenshot. (They may be mixed with VA medications.)

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #97 – Non-VA Patient Medications Display*** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist)  (NOTE: Select ONE,PATIENT in CPRS before launching ASRC) | The ASRC application displays and login was successful |  |
|  |  | Select “General Surgery” and click “Continue” | The General Surgery page displays |  |
|  | ***VP*** | Scroll down to the “Medications” group. | Verify that the patient’s Non-VA medication (Aspirin 81mg Ec Tab) displays next to “Active Medications”. |  |
|  |  | End of TC |  |  |

# TC #97 – ASRC-33: Remote Patient Medications Display

**User Story:** ASRC-33: Remote Patient Medications Display

**Description:** As a provider, I want the tool to automatically display remote patient medications from VistA, so that I can see any medications that would affect my decision-making.

* Note: NSO was envisioning the tool displaying medications as they would see in VistAWeb, which is not available in the FTL. Instead we will just import the local VistA's medications and have a placeholder link that would launch VistAWeb in the field.

*Acceptance Criteria:*

* Tool displays a placeholder link to VistAWeb.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #98 –Remote Patient Medications Display*** | | | | |
|  | **Step** | Login to the ASRC Application as user 11716 (Radiologist)  (NOTE: Select ONE,PATIENT in CPRS before launching ASRC) | The ASRC application displays and login was successful |  |
|  |  | Select “General Surgery” and click “Continue” | The General Surgery page displays |  |
|  | ***VP*** | Scroll down to the “Medications” group and click the link next to “Remote Medications”: “Please click here to view remote medications.” | Verify that an external web page launches in a new tab or window.  (NOTE: In production, this webpage would be VistAWeb. For the prototype, the link directs to Google.) |  |
|  |  | End of TC |  |  |

# TC #98 – ASRC-61: Summary Report, ASRC-52: Save Result to NSO SQL DB

**User Story:** ASRC-61: Summary Report, ASRC-52: Save Result to NSO SQL DB

**Description:**

(ASRC-61) As a member of NSO staff, I want to generate a Summary Report including individual calculation outcomes grouped by CPT Code, Surgical Specialty, Facility, User Type, and Risk Model Name, so that we can perform statistical analysis on both outcomes and usage by certain user groups.

(ASRC-52) As a member of NSO staff, I want the tool to save the calculation results (including associated patient, specialty, CPT code, signed date and time of calculation, time it took for user to complete calculation the first time, time it took for the user to sign the calculation, provider types, actual probability results, and all formula input variables) to the tool's SQL DB, so that the NSO and site users can run reports (including reports beyond the 3 in the tool).

*Acceptance Criteria:*

*ASRC-61:*

* Selectable from ASRC Administration
* Initial parameter of date range (text MM/DD/YYYY or date picker).
* An invalid date prevents generation of the report with a user-visible error.
* Initial parameter of facility (free text, single-select)can be entered as a filter or left blank to return all results.
* Initial parameter of specialty (check boxes, can select multiple specialties)
* Initial parameter of CPT (drop-down, single-select)
* Report matches the mockup (Figure 1)
* Can sort the results live

ASRC-52:

* All of a user's person class provider types are saved to the DB. (See Figure 2)
* The tool stores the input values as two textual values: variable key (as opposed to the display name) and variable value as opposed to discrete data. (See Figure 2)

Summary Report Mockup


Figure 1 – Summary Report Mockup

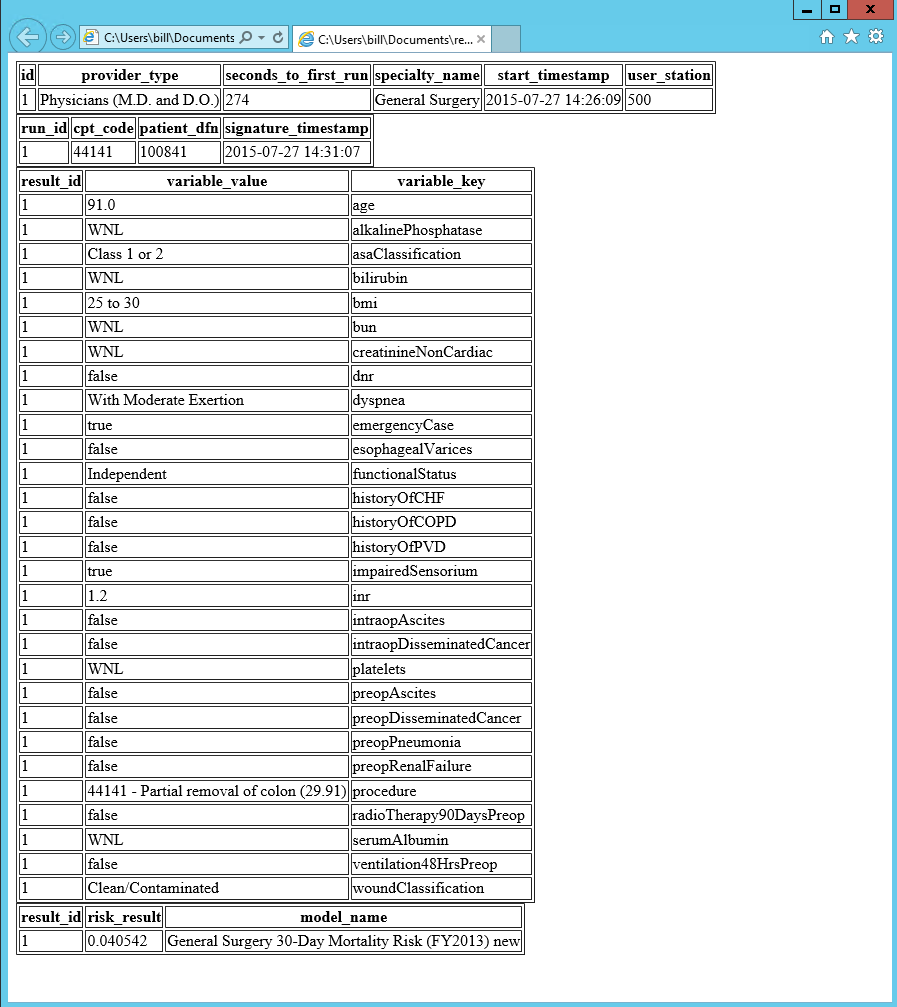


Figure 2 – Screen capture of the live SQL DB running in DEV

**UAT Test Case Design Note:** In the FTL it is difficult to instruct and provide direct access to the SQL DB in the UAT environment to the UAT testers. The combination of the above Figure 2 showing the layout and function of the NSO SQL DB plus the successful generation of the Summary Report (the Utilization Report could have also been used) that uses the NSO SQL DB shows the proper layout and function of both the report and the DB.

**Preparation:** To test this User Story there must be new – Sprint 10 or later – risk

calculations generated and signed. The results are pulled from the NSO SQL DB which

was deployed in Sprint 10). To prepare for this test please use ASRC to generate and sign multiple (3 or more) risk calculations using different surgical specialties.

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #100 –*** ***Summary Report*** | | | | |
|  | **Step** | Login as an ASRC Administrator using the following information:  Username: adminone  Password: Admin1  (NOTE 1: Make sure the ASRC tool is not already logged in as a regular user)  (NOTE 2: Use Internet Explorer in the FTL. Enter this URL: <http://asrcuat.vaftl.us/srcalc/admin>) | The ASRC Admin page is displayed  (NOTE: To test this User Story there must be new – Sprint 10 or later - risk calculations generated and signed. The results are pulled from the NSO SQL DB which was deployed in Sprint 10). |  |
|  | ***VP*** | In the Reports section click the “Summary Report” link | The “Summary Reports Parameters” page is displayed |  |
|  | **VP** | * Enter invalid dates (e.g., enter 111 in both Date Range: entry boxes) * Click Generate Report | An error message is displayed indicating to enter a valid date |  |
|  | **VP** | * Enter a valid date range by selecting the dates from the popup calendar, ensuring to select an end date that is after the generation and signing of risk calculations done in preparation for this test case. * Click Generate Report | A report showing all available entries for that date range is displayed (if no entries are available a blank report is displayed)  (NOTE: Not making any selections in the Specialties, CPT Code, and Station Number filters returns all available entries) |  |
|  | **VP** | Examine the report | Validate that it complies with the mockup (Figure 2) |  |
|  | **VP** | Click one Column Heading (e.g., Surgical Specialty”) | Validate that the entries are now sorted by the selected column |  |
|  | **VP** | * Click “Return to administration home” and then click “Summary Report” * Enter a valid date range by selecting the dates from the popup calendar, ensuring to select an end date that is after the generation and signing of risk calculations done in preparation for this test case. * Select two Surgical Specialties that are available on the report * Select a CPT Code available on the report * Select a Station ID available on the report * Click Generate Report | * Validate that the CPT list displays as a drop down selection * Validate that only the specified entries that meet the entered criteria are displayed |  |
|  |  | End TC |  |  |

# TC #99 – ASRC-291: Prompt only for warranted procedures

**User Story:** ASRC-291: Prompt only for warranted procedures

**Description:** As a licensed provider requesting a surgery that does not warrant a risk calculation, I do not want VistA Surgery to prompt me to complete a risk calculation, so that I do not waste time opening the ASRC tool only to find that I cannot run a calculation.

*Acceptance Criteria:*

* If the selected procedure does not warrant a risk calculation, VistA should not prompt the user to complete one. (It will not even notify the user about a risk calculation at all.)

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #101 – Prompt only for warranted procedures*** | | | | |
|  | **Step** | Login to VistA in the FTL  (use the same Access/Verify code as CPRS) | VistA login successful |  |
|  | **Step** | At an option prompt enter “^surgery menu” then enter the division as requested (enter camp) | Surgery menu is displayed |  |
|  | **Step** | * Enter “r” for “request operations” * Enter “r” for “Make Operation Request” * Select patient (TWENTYSEVEN,PATIENT recommended) * Enter “N” to not edit any existing requests * Enter “Y” to create a new request * Enter a Date for the surgery (pick a date that does not already have one scheduled listed above. “T” means “Today” -> T+1 means tomorrow.) * Enter Surgeon (programmer, one recommended) * Enter Attending (Programmer, one recommended) * Enter General for Surgical Specialty (or enter a “?” to see a list of options) * Enter text for Principal Operative Procedure * Enter text for Principal Preoperative diagnosis * Enter a number from 1-5 as the ASA Class * Enter a “N” for Requested Blood Components Available | “Principal Procedure Code (CPT) :” is displayed |  |
|  | **VP** | * Enter a CPT code that does NOT require a risk calculation (e.g., 0001F) * Enter Return at the “Modifier:” prompt | The surgery request proceeds (User is not prompted to complete a risk calculation) |  |
|  | **VP** | * At the “Other Procedure Prompt:” enter a CPT code that does require a risk calculation (e.g., 0250T) * Enter Return at the “Modifier:” prompt | The user is prompted to complete a surgical risk calculation |  |
|  |  | End of TC |  |  |

# TC #100 – ASRC-59: Utilization Report

**User Story:** ASRC-59: Utilization Report

**Description:** As a member of NSO staff, I want to generate a Utilization Report including the number of uses and whether the calculation was signed or not, so that we can monitor level of use in the field.

*Acceptance Criteria:*

* Report format matches the attached mockup (See Figure 3 below), but need not include the "Calculation Data" section (i.e., the detail rows).
* The report can be generated to include 200,000 calculations within 10 seconds.
* User enters a date range limiting the calculations that are considered for the report.
* Report should be exportable, either via copy+paste or direct Excel download.
* The report includes rows for unsigned calculations, with the "time to first run" based on the time the user first successfully ran a calculation.
* NOTE: The report does not include calculations that were not successfully run due to validation errors.

Utlization Report Mockup


Figure 3 – Utilization Report Mockup

**Preparation:** Test Data in the NSO SQL database must be configured to hold at least 200K entries in order to facilitate timing the report.

**UAT Note:** UAT users please note that as part of Sprint 11 SSO has been implemented and user context is shared between CPRS and ASRC. A separate login to ASRC is no longer required.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #100 – Utilization Report*** | | | | |
|  | **Step** | Login as an ASRC Administrator using the following information:  Username: adminone  Password: Admin1  (NOTE 1: Make sure the ASRC tool is not already logged in as a regular user)  (NOTE 2: Use Internet Explorer in the FTL. Enter this URL: <http://asrcuat.vaftl.us/srcalc/admin>) | ASRC Administration page is displayed |  |
|  | ***Step*** | Click on the Utilization Report link | The Utilization Report Parameters page is displayed. |  |
|  | ***VP*** | * Get a timer ready * Enter 1 July 2015 through the current date * Start the timer * Click Generate Report * Stop timer when report displays | Validate that,   * there are more than 200K entries in the summary data * the elapsed time is within 10 seconds * the format is IAW the mockup (Figure 3) * the report is exportable via copy+paste * The report includes rows for unsigned calculations, with the "time to first run" based on the time the user first successfully ran a calculation |  |
|  |  | End of TC |  |  |

# TC #101 – ASRC-31: Active Patient Medications Display

**User Story:** ASRC-31: Active Patient Medications Display

**Description:** As a provider, I want the tool to automatically display active patient medications from VistA, so that I can see any medications that would affect my decision-making.

* "Active" is a VA medication that the patient is taking right now.

*Acceptance Criteria:*

* The tool displays active (not pending) VA medications immediately under the Medications heading, as indicated in the attached screenshot.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. A test patient must be available with active and inactive VA medications, and non-VA medications. Vergence (needed for SSO and context sharing) is installed.

**UAT Note:** UAT users please note that as part of Sprint 11 SSO has been implemented and user context is shared between CPRS and ASRC. A separate login to ASRC is no longer required.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #101 – Active Patient Medications Display*** | | | | |
|  | **Step** | Login to the ASRC Application as user 1radiologist and launch ASRC.  (NOTE 1: CPRS Login: Access Code: 1radiologist  Verify Code: radiologist1)  (NOTE 2: Select BCMA, Eight in CPRS before launching ASRC) | CPRS login is successful and the ASRC tool is displayed |  |
|  | ***VP*** | Select General Surgery and examine the Active Medications section of the Enter Risk Variables page | Validate that,   * Non-VA meds are displayed * Active VA meds are displayed * Pending VA meds are NOT displayed   (NOTE 1: Use CPRS to see if the meds are VA or NON-VA and if they are active or pending.)  (NOTE 2: If there are no Active or Pending VA meds available for the test patience use VistA, “Order Entry” to create a pending med or change a pending med to active by “releasing” it.) |  |
|  |  | End of TC |  |  |

# TC #102 – ASRC-39: Patient DNR Automatic Retrieval

**User Story:** ASRC-39: Patient DNR Automatic Retrieval

**Description:** As a provider, I want the tool to automatically retrieve the patient's DNR status from CPRS Clinical Warnings and Advance Directives (CWAD), so that I don't have to enter it manually.

*Acceptance Criteria:*

* The tool should display all notes for the patient with "DNR" in the title.
* If the tool cannot find any notes, it should just hide the notes display instead of saying e.g. "No information".
* Notes should be initially hidden, displayable by clicking an "N" icon similar to the help text.
* For each note, display Local Title, Signed Date, and Note Body.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Vergence (needed for SSO and context sharing) is installed. This test assumes that the correct DNR related enterprise title note type is available and a note of that type has been created for TWENTYSEVEN,PATIENT.

**UAT Note:** UAT users please note that as part of Sprint 11 SSO has been implemented and user context is shared between CPRS and ASRC. A separate login to ASRC is no longer required.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #102 – Patient DNR Automatic Retrieval*** | | | | |
|  | **Step** | Login to the ASRC Application as user 1radiologist and launch ASRC.  (NOTE 1: CPRS login: Access Code: 1radiologist  Verify Code: radiologist1)  (NOTE 2: Select TWENTYSEVEN,PATIENT in CPRS before launching ASRC) | CPRS login is successful and the ASRC tool is displayed |  |
|  | ***VP*** | Select General Surgery and examine the Risk Variable Entry Page | Validate that,   * There is an “N” (for Note) by DNR * When you click on the “N” the note text is displayed * When you click the “N” again the note text is no longer displayed   (NOTE: The note that is displayed for the selected patient is available on the CPRS Notes tab.) |  |
|  | ***Step*** | Close ASRC, select a new patient in CPRS, and launch ASRC.  (NOTE: Select TWENTYSIX,PATIENT) | The ASRC tool is displayed. |  |
|  | ***VP*** | Select General Surgery and examine the Risk Variable Entry Page | Validate that,   * There is not an “N” (for Note) by DNR   (NOTE: Verify that there are not DNR related notes in the CPRS Notes Tab for the selected patient) |  |
|  |  | End of TC |  |  |

# TC #103 – ASRC-99: Drop-Down Custom Variables

**User Story:** ASRC-99: Drop-Down Custom Variables

**Description:** As a provider, I want the tool to support specialty-specific drop-down list variables, so that I can intuitively input specialty-specific data

*Acceptance Criteria:*

* Multi-select variables (Radio Buttons) can be changed to custom drop-down variable.
* Tool displays entered selection on calculation result page.
* Tool only displays the variable entry on the appropriate specialty pages.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Vergence (needed for SSO and context sharing) is installed.

**UAT Note:** UAT users please note that as part of Sprint 11 SSO has been implemented and user context is shared between CPRS and ASRC. A separate login to ASRC is no longer required.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #103 – Drop-Down Custom Variables*** | | | | |
|  | **Step** | Login as an ASRC Administrator using the following information:  Username: adminone  Password: Admin1  (NOTE 1: Make sure the ASRC tool is not already logged in as a regular user)  (NOTE 2: Use Internet Explorer in the FTL. Enter this URL: <http://asrcuat.vaftl.us/srcalc/admin>) | ASRC Administration page is displayed |  |
|  | **Step** | Click on Model Administration | The Model Administration page displays |  |
|  | **Step** | In the Variable Definition section select the variable “Drop Down Test” | The “Drop Down Test” Edit Variable page displays |  |
|  | **VP** | Examine the Edit Variable page | Validate that the Radio “display Type” can be changed to Dropdown |  |
|  | **VP** | Select Add Another in the Options section, enter a new option, and click Save Changes | A new Option entry row is displayed, the entered text is displayed, the Drop Down Test Variable saves successfully (the Model Administration page is displayed) |  |
|  | **Step** | Close the ASRC Administration browser window | The ASRC Administration page is no longer displayed |  |
|  | **Step** | Login to the ASRC Application as user 1radiologist and launch ASRC.  (NOTE 1: CPRS login: Access Code: 1radiologist  Verify Code: radiologist1)  (NOTE 2: Select TWENTYSEVEN,PATIENT in CPRS before launching ASRC) | CPRS login is successful and the ASRC tool is displayed |  |
|  | ***VP*** | * Select “Test Specialty” * Examine “Drop Down Test” variable and select an option * Complete required entries * Run the calculation | Validate that   * Test specialty displays * The Drop Down Test variable displays correctly with the new Option created in step 5 * The Calculation results page displays the selected Drop Down Test option. |  |
|  |  | End of TC |  |  |

# TC #104 – ASRC-144: Modify Drop-Down Custom Variables

**User Story:** ASRC-144: Modify Drop-Down Custom Variables

**Description:** As an ASRC Administrator, I want to add, modify, and remove drop-down custom variables, so that I can update the risk models without development effort.

*Acceptance Criteria:*

* Edit page displays the variable's key for reference.
* Edit page displays the risk models that currently use the variable for reference.
* Edit page indicates whether the variable is automatically retrieved from VistA.
* User can modify the display name, up to 80 characters long, consisting of valid characters.
* User can modify the field definition (help text), up to 4000 characters.
* User can modify the variable group.
* User can add, modify, and remove available options. Option names are up to 80 characters long, consisting of valid Display Name characters.
* User can change the displayed order of options.
* User can add up to 20 options.
* Once the limit is met, the tool displays a message stating that the maximum options are configured,
* Note: See the Admin UI Mockups on SharePoint for UI mockups.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Vergence (needed for SSO and context sharing) is installed. Test case 103 has been executed prior to executing this test case (#104).

**UAT Note:** UAT users please note that as part of Sprint 11 SSO has been implemented and user context is shared between CPRS and ASRC. A separate login to ASRC is no longer required.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #104 – Modify Drop-Down Custom Variables*** | | | | |
|  | **Step** | Login as an ASRC Administrator using the following information:  Username: adminone  Password: Admin1  (NOTE 1: Make sure the ASRC tool is not already logged in as a regular user)  (NOTE 2: Use Internet Explorer in the FTL. Enter this URL: <http://asrcuat.vaftl.us/srcalc/admin>) | ASRC Administration page is displayed |  |
|  | **Step** | Click on Model Administration | The Model Administration page displays |  |
|  | **Step** | In the Variable Definition section select the variable “Drop Down Test” | The “Drop Down Test” Edit Variable page displays |  |
|  | **VP** | Modify the “Drop Down Test” variable   * Modify the existing options so that they are in a different order (e.g., swap opt1 and opt3) * Add up to 20 options (at the 21st option a warning message is displayed) * Change the Variable Group * Add or modify the existing help text * Select “Save Changes” | Validate that the updates work as expected and the changes save successfully |  |
|  | **Step** | Close the ASRC Administration browser window | The ASRC Administration page is no longer displayed |  |
|  | **Step** | Login to the ASRC Application as user 1radiologist and launch ASRC.  (NOTE 1: CPRS login: Access Code: 1radiologist  Verify Code: radiologist1)  (NOTE 2: Select TWENTYSEVEN,PATIENT in CPRS before launching ASRC) | CPRS login is successful and the ASRC tool is displayed |  |
|  | ***VP*** | * Select “Test Specialty” * Examine “Drop Down Test” variable and select an option * Complete required entries * Run the calculation | Validate that   * Test specialty displays * The Drop Down Test variable displays correctly with the modifications made in step 4 (correct # of options, the options display in the correct order, the help text displays, and it displays in the selected variable group) * The Calculation results page displays the selected Drop Down Test option. |  |
|  |  | End of TC |  |  |

# TC #105 – ASRC-98: Numeric Custom Variables

**User Story:** ASRC-98: Numeric Custom Variables

**Description:** As a provider, I want the tool to support specialty-specific numeric variables, so that I can intuitively input specialty-specific data.

*Acceptance Criteria:*

* Tool displays at least one functional numerical variable.
* Tool displays entered numerical value on calculation result page.
* Tool only displays the variable entry on the appropriate specialty pages.
* Note: there are no Numeric Custom Variables in the FY2013 models.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Vergence (needed for SSO and context sharing) is installed. Test Specialty is present with “Number of Children” custom numeric variable defined.

**UAT Note:** UAT users please note that as part of Sprint 11 SSO has been implemented and user context is shared between CPRS and ASRC. A separate login to ASRC is no longer required.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #105 – Numeric Custom Variables*** | | | | |
|  | **Step** | Login to the ASRC Application as user 1radiologist and launch ASRC.  (NOTE 1: CPRS login: Access Code: 1radiologist  Verify Code: radiologist1)  (NOTE 2: Select TWENTYSEVEN,PATIENT in CPRS before launching ASRC) | CPRS login is successful and the ASRC tool is displayed |  |
|  | ***VP*** | In ASRC select “test specialty”,   * enter Numeric Custom Variable “Number of Children” = 2 (or other value) * enter all other required values, and run the calculation | On the “Calculation Results” page validate that number of children equals 2 or whatever value was entered for the number of children. |  |
|  |  | End of TC |  |  |

# TC #106 – ASRC-46: Calculate all Probability Outcomes

**User Story:** ASRC-46: Calculate all Probability Outcomes

**Description:** As a provider performing the calculation, I want the tool to display the probability of mortality outcome for the multiple timeframes configured in the database, so that I have the complete risk picture available.

*Acceptance Criteria:*

* Running a "Test Specialty" calculation displays at least 2 different calculated outcomes.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Vergence (needed for SSO and context sharing) is installed. Test Specialty is available with multiple outcomes produced when a calculation is run.

**UAT Note:** UAT users please note that as part of Sprint 11 SSO has been implemented and user context is shared between CPRS and ASRC. A separate login to ASRC is no longer required.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #106 – Calculate all Probability Outcomes*** | | | | |
|  | **Step** | Login to the ASRC Application as user 1radiologist and launch ASRC.  (NOTE 1: CPRS login: Access Code: 1radiologist  Verify Code: radiologist1)  (NOTE 2: Select TWENTYSEVEN,PATIENT in CPRS before launching ASRC) | CPRS login is successful and the ASRC tool is displayed |  |
|  | ***VP*** | In ASRC select “test specialty”, enter all required values, and run the calculation | On the bottom of the “Calculation Results” page validate that there are two outcomes with associated results displayed  (NOTE: The Test Specialty has been configured with two test outcomes: e.g.,  . Test Risk Model with name updated: xx%  . Vascular 30-Day Mortality Risk (FY2013): xx%) |  |
|  |  | End of TC |  |  |

# TC #107 – ASRC-118: INR, ASRC-122: K+, ASRC-125: HgA1C, and ASRC-101: Glucose Lab Result Manual WNL/Abnormal

**User Story:** ASRC-118: INR, ASRC-122: K+, ASRC-125: HgA1C, and ASRC-101: Glucose Lab Result Manual WNL/Abnormal

**Description:** As a provider, I want to tool to allow "WNL" or "Presumed Too High" or "Presumed Too Low" for the lab results, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

Note that these lab results are not in any current models. We need to determine how to test these stories if we need to test them at all.

*Acceptance Criteria:*

* The "Test Specialty" variable entry page contains radio buttons to select these categories.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #107 – INR, K+, HgA1C, and Glucose Lab Result Manual WNL/Abnormal*** | | | | |
|  | **Step** | Login to the ASRC Application as user 1radiologist and launch ASRC.  (NOTE 1: CPRS login: Access Code: 1radiologist  Verify Code: radiologist1)  (NOTE 2: Select TWENTYSEVEN,PATIENT in CPRS before launching ASRC) | CPRS login is successful and the ASRC tool is displayed |  |
|  | **VP** | Select the Test Specialty page and examine the available variables | Verify that the Test Specialty contains radio buttons to select INR, K+, HgA1C, and Glucose values  AND  These variables are in the “Laboratory Values” field group |  |
|  | **VP** | Select the Test Specialty page and examine the available variables  INR, K+, HgA1C, and Glucose   * Select “Presumed <1.0” for the INR radio button * Select “Presumed <3.8 meq/L” for the K+ radio button * Select the “Presumed <3.5%” for the HgA1C radio button * Select the “Presumed <60 mg/dL” for the Glucose radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that   * “Presumed <1.0” is displayed for INR for the Test Specialty * “Presumed <3.8 meq/L” is displayed for K+ for the Test Specialty * “Presumed <3.5%” is displayed for HgA1C for the Test Specialty * “Presumed <60 mg/dL” is displayed for Glucose for the Test Specialty |  |
|  | **VP** | Select the Test Specialty page and examine the available variables   * Select the “Presumed WNL” radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Presumed WNL” is displayed for INR, K+, HgA1C, and Glucose values for the Test Specialty |  |
|  | **VP** | Select the Test Specialty page and examine the available variables  INR, K+, HgA1C, and Glucose   * Select “Presumed >1.3” for the INR radio button * Select “Presumed >5.3 meq/L” for the K+ radio button * Select the “Presumed >6%” for the HgA1C radio button * Select the “Presumed >500 mg/dL” for the Glucose radio button * Select values for all other variables needed for the calculation * Run Calculation | Verify that   * “Presumed >1.3” is displayed for INR for the Test Specialty * “Presumed >5.3 meq/L” is displayed for K+ for the Test Specialty * “Presumed >6%” is displayed for HgA1C for the Test Specialty * “Presumed >500 mg/dL” is displayed for Glucose for the Test Specialty |  |
|  | **VP** | Select the Test Specialty page and examine the available variables   * Don’t select any value for INR, K+, HgA1C, and Glucose * Select values for all other variables needed for the calculation * Run Calculation | Verify that “Please enter the required value” is displayed for each specialty |  |
|  |  | End of TC |  |  |

# TC #108 – ASRC-130: INR, ASRC-134: K+, ASRC-137: HgA1C, and ASRC-138: Glucose Lab Result Translation

**User Story:** ASRC-130: INR, ASRC-134: K+, ASRC-137: HgA1C, and ASRC-138: Glucose Lab Result Translation

**Description:** As a provider, I want the lab results translated into "normal", "too low", or "too high" on the UI, so that I can easily see the result's effect on the calculation. Note that the lab results are not in any current models. We need to determine how to test these stories if we need it at all.

Note: The actual value used for the risk calculation is not just "slightly above normal" but "significantly above normal".

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #108 – INR, K+, HgA1C, and Glucose Lab Result Translation*** | | | | |
|  | **Step** | Login to the ASRC Application as user 1radiologist and launch ASRC.  (NOTE 1: CPRS login: Access Code: 1radiologist  Verify Code: radiologist1)  (NOTE 2: Select TWENTYSEVEN,PATIENT in CPRS before launching ASRC) | CPRS login is successful and the ASRC tool is displayed |  |
|  | **VP** | Select the Test Specialty page and examine the available variables   * Enter a number >1.0 and <1.3 in the INR manual entry box * Enter a number >3.8 and <5.3 in the K+ manual entry box * Enter a number >3.5 and <6 in the HgA1C manual entry box * Enter a number >60 and <500 in the Glucose manual entry box * Select values for all other variables needed for the calculation * Run Calculation | Verify that “WNL (Actual value:<entered value>) ” is displayed for INR, K+, HgA1C, and Glucose for the Test Specialty |  |
|  | **VP** | Select the Test Specialty page and examine the available variables   * Enter a number <1.0 in the INR manual entry box * Enter a number <3.8 in the K+ manual entry box * Enter a number <3.5 in the HgA1C manual entry box * Enter a number <60 in the Glucose manual entry box * Select values for all other variables needed for the calculation * Run Calculation | * Verify that “<1.0 (Actual Value<Entered Value>)" is displayed for INR for the Test Specialty * Verify that “<3.8 meq/L (Actual Value<Entered Value>)" is displayed for K+ for the Test Specialty * Verify that “<3.5% (Actual Value<Entered Value>)" is displayed for HgA1C for the Test Specialty * Verify that “<60 mg/dL (Actual Value<Entered Value>)" is displayed for Glucose for the Test Specialty |  |
|  |  | Select the Test Specialty page and examine the available variables   * Enter a number >1.3 in the INR manual entry box * Enter a number >5.3 in the K+ manual entry box * Enter a number >6 in the HgA1C manual entry box * Enter a number >500 in the Glucose manual entry box * Select values for all other variables needed for the calculation * Run Calculation | * Verify that “>1.3 (Actual Value<Entered Value>)" is displayed for INR for the Test Specialty * Verify that “>5.3 meq/L (Actual Value<Entered Value>)" is displayed for K+ for the Test Specialty * Verify that “>6% (Actual Value<Entered Value>)" is displayed for HgA1C for the Test Specialty * Verify that “>500 mg/dL (Actual Value<Entered Value>)" is displayed for Glucose for the Test Specialty |  |
|  |  | End of TC |  |  |

# TC #109 – ASRC-86: K+, ASRC-89: HgA1C, and ASRC-90: Glucose Lab Result Manual Entry Numerical

**User Story:** ASRC-86: K+, ASRC-89: HgA1C, and ASRC-90: Glucose Lab Result Manual Entry Numerical

**Description:** As a provider, I want the tool to allow manual entry of the lab results, so that I can still complete the calculation if it could not be retrieved and override a value if I know a more current value.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application.

**UAT Note:** UAT users please note that using the User Number will only be required until single-sign on with CPRS is implemented. Please use the login method that works when you are performing your tests.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #109 – INR, K+, HgA1C, and Glucose Lab Result Manual Entry Numerical*** | | | | |
|  | **Step** | Login to the ASRC Application as user 1radiologist and launch ASRC.  (NOTE 1: CPRS login: Access Code: 1radiologist  Verify Code: radiologist1)  (NOTE 2: Select TWENTYSEVEN,PATIENT in CPRS before launching ASRC) | CPRS login is successful and the ASRC tool is displayed |  |
|  | **VP** | Select the Test Specialty page and examine the available variables | Verify that the Test Specialty page contains the Manual Numerical Entry box for INR, K+, HgA1C, and Glucose  AND  The INR, K+, HgA1C, and Glucose manual entry variables are in the “Laboratory Values” field group |  |
|  | **VP** | Select the Test Specialty page and examine the available variables   * Select the INR, K+, HgA1C, and Glucose “Numerical” radio button (do not fill in a value) * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Please enter the required value” is displayed |  |
|  | **VP** | Select the Test Specialty page and examine the available variables   * Select the Glucose and K+ “Numerical” radio buttons * Fill in a value <0 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be greater than or equal to 0” is displayed |  |
|  | **VP** | Select the Test Specialty page and examine the available variables   * Select the Glucose and K+ “Numerical” radio buttons * Fill in a value >1,000 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be less than or equal to 1,000” is displayed |  |
|  | **VP** | Select the Test Specialty page and examine the available variables   * Select the Glucose and K+ “Numerical” radio buttons * Fill in a value >=0 and <=1,000 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the calculation runs successfully. |  |
|  | **VP** | Select the Test Specialty page and examine the available variables   * Select the HgA1C and INR “Numerical” radio buttons * Fill in a value <0 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be greater than or equal to 0” is displayed |  |
|  | **VP** | Select the Test Specialty page and examine the available variables   * Select the HgA1C and INR “Numerical” radio buttons * Fill in a value >100 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the message “Value must be less than or equal to 100” is displayed |  |
|  | **VP** | Select the Test Specialty page and examine the available variables   * Select the HgA1C and INR “Numerical” radio buttons * Fill in a value >=0 and <=100 * Select values for all other variables needed for the calculation * Run Calculation | Verify that the calculation runs successfully. |  |
|  |  | End of TC |  |  |

# TC #110 – ASRC-72: K+, ASRC-75: HgA1C, and ASRC-76: Glucose Lab Result Automatic Retrieval

**User Story:** ASRC-72: K+, ASRC-75: HgA1C, and ASRC-76: Glucose Lab Result Automatic Retrieval

**Description:** As a provider, I want the tool to automatically retrieve the patient's lab results from VistA, so that I don't have to search for or enter it myself.

*Acceptance Criteria:*

* Tool should display the lab result date on the UI (even though the date is not used in the calculation).
* Tool should pull the latest result no matter how old.
* Tool pulls a lab test with the Laboratory Test Name equal to:
  + K+: “POTASSIUM" or "K".
  + HgA1C: "HGA1C", "HEMOGLOBIN A1C", or "A1C".
  + Glucose: "GLUCOSE" or "SERUM GLUCOSE".

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Tested labs must have values for the selected test patient to verify the automatic retrieval. If the labs do not exist use “^bypass” in VistA to create them. Vergence (needed for SSO and context sharing) is installed.

**UAT Note:** UAT users please note that as part of Sprint 11 SSO has been implemented and user context is shared between CPRS and ASRC. A separate login to ASRC is no longer required.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #111 – K+, HgA1C, and Glucose Lab Automatic Retrieval*** | | | | |
|  | **Step** | Login to the ASRC Application as user 1radiologist and launch ASRC.  (NOTE 1: CPRS login: Access Code: 1radiologist  Verify Code: radiologist1)  (NOTE 2: Select TWENTYSEVEN,PATIENT in CPRS before launching ASRC) | CPRS login is successful and the ASRC tool is displayed |  |
|  | **Step** | Access Test Specialty  (NOTE: Test Specialty is used for these labs as they are not used in the FY2013 risk models) | The selected specialty variable entry page is displayed |  |
|  | **VP** | Examine the Laboratory Values Section | Validate that the following variables have values and that the lab date and unit are displayed for each:   * “K” or “Potassium” * "HGA1C", "HEMOGLOBIN A1C", or "A1C" * “GLUCOSE” or “SERUM GLUCOSE”   (NOTE 1: If the lab does not have a value use the “^BYPASS” function to create that lab.)  (NOTE 2: Lab name variations (e.g., WBC or “WHITE BLOOD COUNT”) can only be tested using a combo of FileMan and ^BYPASS. Do not attempt as part of UAT.) |  |
|  |  | End of TC |  |  |

# TC #111 – ASRC-3: Share user context with CPRS

**User Story:** ASRC-3: Share user context with CPRS

**Description:** As a VA clinical user, I want the tool to preserve my user context with CPRS, So that I don't have to re-enter my username or access code.

*Acceptance Criteria:*

* The user can only access the ASRC tool via CPRS
* The user does not have to enter any credentials when launching from CPRS.

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Vergence (needed for SSO and context sharing) is installed.

**UAT Note:** UAT users please note that as part of Sprint 11 SSO has been implemented and user context is shared between CPRS and ASRC. A separate login to ASRC is no longer required.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #111 –* Share user context with CPRS** | | | | |
|  | **Step** | Login to CPRS as a doctor (radiologist) and select a patient  (Access Code: 1radiologist  Verify Code: radiologist1) | CPRS login successful |  |
|  | ***VP*** | Launch the ASRC tool from the Tools menu | ASRC launches without requiring the user to authenticate again (1radiologist user is the active user in ASRC) |  |
|  | ***Step*** | Close ASRC and CPRS | Applications are closed |  |
|  | **Step** | Login to CPRS as a pharmacist and select a patient  (Access Code: 1pharmacist  Verify Code: pharmacist1) | CPRS login successful |  |
|  | ***VP*** | Launch the ASRC tool from the Tools menu | ASRC launches without requiring the user to authenticate again (1pharmacist) user is the active user in ASRC) |  |
|  |  | End of TC |  |  |

# TC #112 – ASRC-327: Authenticate Users with Access/Verify Codes

**User Story:** ASRC-327: Authenticate Users with Access/Verify Codes

**Description:** As a VA clinical user, I want to login to the tool using my VistA Access/Verify code, so that I can use the tool even if SSO doesn't work.

*Acceptance Criteria:*

* Only authorized CPRS users can access ASRC

**Preparation:** None

**Precondition:** Access to VA FTL & ASRC Application. Vergence (needed for SSO and context sharing) is disabled. SSO must be disabled for this test to work. In the FTL use the “Step\_ccow” utility located in the S: drive, i824\_asrc” folder. Before running this test. After the test use the “start\_ccow” utility in the S: drive, i824\_asrc folder.

**UAT Note:** This test validates that that an authorized CPRS user can still access ASRC even if SSO is not working.

| ***#*** | **Steps** | **Steps/Actions** | **Expected Results (VP) / Reference Information (STEP)** | **Actual Results**  **(P)ass / (F)ail** |
| --- | --- | --- | --- | --- |
| ***TC #111 –* Authenticate Users with Access/Verify Codes** | | | | |
|  | **Step** | Login to CPRS as a doctor (radiologist) and select a patient  (Access Code: 1radiologist  Verify Code: radiologist1) | CPRS login successful |  |
|  | ***VP*** | Launch the ASRC tool from the Tools menu | Validate that the user is prompted for   * Access Code * Verify Code * Division   NOTE: If SSO is active the user will not be prompted for this info. Please ensure that SSO has been disabled for this test.) |  |
|  | ***VP*** | Enter a valid CPRS User’s information   * Access Code = 1radiologist * Verify Code = radiologist1 * Division = 500   Click “Log In” | ASRC login is successful |  |
|  | ***Step*** | Launch the ASRC tool from the Tools menu | the user is prompted for   * Access Code * Verify Code * Division   NOTE: If SSO is active the user will not be prompted for this info. Please ensure that SSO has been disabled for this test.) |  |
|  | ***VP*** | Enter a valid VistA user that is not a CPRS User    Information   * Access Code = testuser1 * Verify Code = tustar1\* * Division = 500   Click “Log In” | ASRC login is not successful  (testuser1 is a valid VistA user but is not a valid CPRS user) |  |
|  | ***Step*** | Close ASRC browser | ASRC browser is no longer displayed |  |
|  |  | End of TC |  |  |

1. Appendix A – Acronym List and Glossary

Table 2 – Acronym List and Glossary

| Term | Meaning |
| --- | --- |
| ASRC | Automated Surgical Risk Calculator |
| CPRS | Computerized Patient Record System |
| CPT | Current Procedural Terminology |
| CSV | Comma Separated Values |
| CWAD | Clinical Warnings and Advance Directives |
| DB | Database |
| DNR | Do Not Resuscitate |
| EHR | Electronic Health Record |
| FTL | Future Technology Lab |
| GFI | Government Furnished Information |
| GUI | Graphical User Interface |
| HPES | Hewlett-Packard Enterprise Services |
| IAW | In Accordance With |
| NSO | National Surgery Office |
| RVU | Relative Value Unit |
| SQL | Structured Query Language |
| SSO | Single Sign On |
| TC | Test Case |
| TIU | Text Integration Utilities |
| UAT | User Acceptance Testing |
| UI | User Interface |
| URL | Uniform Resource Locator |
| VA | Department of Veterans Affairs |
| VASQIP | Veterans Affairs Surgical Quality Improvement Program |
| VistA | Veterans Health Information Systems and Technology Architecture |
| VP | Verify Procedure |
| WBC | White Blood Count |
| WNL | Within Normal Limits |