

Knowledge Base 8.0

Service update 2

Release Notes

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Knowledge Bases 8.0 Service update 2 - Summary

Knowledge Bases 8.0 Service update 2 (SU2) consists of this document and the files described below.

- Cath.Diagrams.8.0.SU2.cpPatch (Cath KB)
- Cath.Implant.Diagrams.8.0.SU2.CPPatch (Cath Implant KB)
- Vascular.Diagrams.8.0.SU2.CPPatch (Vascular KB)
- Echo.Adult.IACPlaceholder.8.0.cpPatch (Adult Echo KB)
- Echo.Peds.Curves.8.0.cpPatch (Peds Echo KB)
- Import.ReferenceRanges.Boston_2015_8.0.29.0.cpkbReferenceRanges (Peds Echo KB)
- Import.ReferenceRanges.PHN_2017_8.0.24.0.cpkbReferenceRanges (Peds Echo KB)
- CriticalAS.8.0.cpPatch (Cath, Cath Implant, CCT, CMR, Adult Echo, and Peds Echo KBs)

Introduction

This document describes the changes included in the **final** release of the ASCEND knowledge base version 8.0 service update 2 (SU2).

The changes described in this document are categorized as “features,” “enhancements” or “resolved issues.”

- **Features** - new capabilities that have been added which required changes to functional requirements of a knowledge base.
- **Enhancements** - incremental improvements that were made to the knowledge base, but which still fit within the existing requirements for a feature or function.
- **Resolved Issues** - repairs to defects that resulted in the failure to meet existing stated or implied requirements.

Tables that provide the following information are included for each modality:

- **ID** – a number that is assigned by ASCEND’s internal tracking system, Helix ALM, which can be used to trace the item through its development history.
- **Description** – a description of the change that was made within the knowledge base to either add, enhance, or repair a respective feature, enhancement or issue.
- **CP Codes** – where applicable, the CP code of the affected node(s) within the knowledge base is provided so that users with administrative and/or configuration privileges can quickly locate them when using a configuration tool such as SRCT.

Cath and Cath Implant Knowledge Bases

The following information applies to both the Cath and Cath.Implant KBs for version 8.0 SU2.

Released Files

- Cath.Diagrams.8.0.SU2.CPPatch
- Cath.Implant.Diagrams.8.0.SU2.CPPatch
- CriticalAS.8.0.cpPatch (applies to Cath and Cath Implant KBs)

The diagrams patches listed above address an issue between the venous diagrams and a vein table which is not used in either of the Cath knowledge bases. These patches have been released here to maintain consistency in the venous diagrams across all knowledge bases that use them. Installation of these patches is optional but recommended.

New Features

No new features were added to the Cath and Cath Implant knowledge bases for version 8.0 SU2.

Enhancements

No enhancements were added to the Cath and Cath Implant knowledge bases for version 8.0 SU2.

Resolved Issues

The following known issues for the Cath and Cath Implant knowledge bases have been resolved for the 8.0 SU2 release.

ID	Resolution Description	CP Codes
19050	The sentence template for aortic stenosis severity has been updated to include the finding for critical aortic stenosis, which had inadvertently been omitted.	225590

Remaining Open Issues

The Cath/Cath Implant knowledge base exhibits the following, yet unresolved, known open defects at this time:

ID	Open Issue Description/Workaround
13911	<p>Aortic Arch Diagram: Aneurysms placed in the aortic arch may have an odd appearance.</p> <p>Workaround/Resolution: This is due to the curvature of the aortic arch. Currently, there is no workaround. This appearance will be reviewed with end users to determine if a change is required.</p>
16578	<p>Some of the date format options that are expected to be in the knowledge base may be missing.</p> <p>Workaround/Resolution: A different date format may be selected.</p>
17154	<p>Lower Extremity Arterial Diagram: The diagram fails to load in rare circumstances when initially accessing the Diagrams tab.</p> <p>Workaround/Resolution: Navigating to another tab, then navigating back to the Diagrams tab will result in the display of the diagram.</p>
18247	<p>Venous Diagrams: When adding multiple lesions to a vein from the lesion form, each is placed in a default spot in the vessel to avoid overlapping. If the most proximal lesion is moved or changed, the remaining lesions get repositioned.</p> <p>Workaround/Resolution: Should lesions be moved spontaneously in this situation they may be repositioned back to their starting locations manually.</p>
18539	<p>Venous Diagrams: Thrombus lesions in the distal SVC and IVC appear to cut off abruptly on the diagram.</p> <p>Workaround/Resolution: Position the distal extent of the lesion slightly above the end of the vessel.</p>
18545	<p>Coronary Diagram: The graphic representation of a sequential graft may break up and not appear contiguous if multiple manipulations are made in rapid succession.</p> <p>Workaround/Resolution: This occurs when the diagram is edited in a non-standard way. Each manipulation of the vessels on the diagram should be completed prior to attempting another.</p>
18727	<p>Peripheral arterial diagrams: If a peripheral graft has the “bifurcated” qualifier but only one target vessel is recorded, its endpoints cannot be moved.</p> <p>Workaround/Resolution: Recreate the peripheral graft without the bifurcated qualifier or enter the second target vessel.</p>

ID	Open Issue Description/Workaround
18728	<p>Coronary diagram: A bifurcated peripheral graft that has a target vessel in the coronary tree cannot be edited.</p> <p>Workaround/Resolution: Ensure that the bifurcated graft being created is a coronary graft. Peripheral grafts should not be placed in the coronary tree.</p>

Compatibility

The 8.0 SU2 Cath and Cath.Implant KBs are compatible with Report Wizard 8.0 and SRCT 8.0 or later and will not work with earlier versions.

Cardiovascular CT (CCT) Knowledge Base

Released Files

- CriticalAS.8.0.cpPatch

New Features

No new features have been added to the CCT knowledge base for 8.0 SU2.

Enhancements

No enhancements were added to the CCT knowledge base for version 8.0 SU2.

Resolved Issues

The following issue has been resolved in the CCT knowledge base in this release:

ID	Resolved Issue Description	CP Codes
19050	The sentence template for aortic stenosis severity has been updated to include the finding for critical aortic stenosis, which had inadvertently been omitted.	225590

Remaining Open Issues

The CCT knowledge base exhibits the following, yet unresolved, known open defects at this time:

ID	Open Issue Description/Workaround
13911	Aortic Arch Diagram: Aneurysms placed in the aortic arch may have an odd appearance. Workaround/Resolution: This is due to the curvature of the aortic arch. Currently, there is no workaround. This appearance will be reviewed with end users to determine if a change is required.
16578	Some of the date format options that are expected to be in the knowledge base may be missing. Workaround/Resolution: A different date format may be selected.

ID	Open Issue Description/Workaround
17154	<p>Lower Extremity Arterial Diagram: The diagram fails to load in rare circumstances when initially accessing the Diagrams tab.</p> <p>Workaround/Resolution: Navigating to another tab, then navigating back to the Diagrams tab will result in the display of the diagram.</p>
18545	<p>Coronary Diagram: The graphic representation of a sequential graft may break up and not appear contiguous if multiple manipulations are made in rapid succession.</p> <p>Workaround/Resolution: This occurs when the diagram is edited in a non-standard way. Each manipulation of the vessels on the diagram should be completed prior to attempting another.</p>
18727	<p>Peripheral arterial diagrams: If a peripheral graft has the “bifurcated” qualifier but only one target vessel is recorded, its endpoints cannot be moved.</p> <p>Workaround/Resolution: Recreate the peripheral graft without the bifurcated qualifier or enter the second target vessel.</p>
18728	<p>Coronary diagram: A bifurcated peripheral graft that has a target vessel in the coronary tree cannot be edited.</p> <p>Workaround/Resolution: Ensure that the bifurcated graft being created is a coronary graft. Peripheral grafts should not be placed in the coronary tree.</p>

Compatibility

The Cardiovascular CT KB 8.0 SU2 is compatible with Report Wizard 8.0 and SRCT 8.0 or later and will not work with earlier versions.

Cardiovascular Magnetic Resonance (CMR) Knowledge Base

Released Files

- CriticalAS.8.0.cpPatch

New Features

No new features have been added to the CMR knowledge base for 8.0 SU2.

Enhancements

No enhancements were added to the CMR knowledge base for version 8.0 SU2.

Resolved Issues

The following issue has been resolved in the CMR knowledge base in this release:

ID	Resolved Issue Description	CP Codes
19050	The sentence template for aortic stenosis severity has been updated to include the finding for critical aortic stenosis, which had inadvertently been omitted.	225590

Remaining Open Issues

The CMR knowledge base exhibits the following, yet unresolved, known open defects at this time:

ID	Open Issue Description/Workaround
13911	Aortic Arch Diagram: Aneurysms placed in the aortic arch may have an odd appearance. Workaround/Resolution: This is due to the curvature of the aortic arch. Currently, there is no workaround. This appearance will be reviewed with end users to determine if a change is required.
16578	Some of the date format options that are expected to be in the knowledge base may be missing. Workaround/Resolution: A different date format may be selected.

ID	Open Issue Description/Workaround
17154	<p>Lower Extremity Arterial Diagram: The diagram fails to load in rare circumstances when initially accessing the Diagrams tab.</p> <p>Workaround/Resolution: Navigating to another tab, then navigating back to the Diagrams tab will result in the display of the diagram.</p>
18545	<p>Coronary Diagram: The graphic representation of a sequential graft may break up and not appear contiguous if multiple manipulations are made in rapid succession.</p> <p>Workaround/Resolution: This occurs when the diagram is edited in a non-standard way. Each manipulation of the vessels on the diagram should be completed prior to attempting another.</p>
18727	<p>Peripheral arterial diagrams: If a peripheral graft has the “bifurcated” qualifier but only one target vessel is recorded, its endpoints cannot be moved.</p> <p>Workaround/Resolution: Recreate the peripheral graft without the bifurcated qualifier or enter the second target vessel.</p>
18728	<p>Coronary diagram: A bifurcated peripheral graft that has a target vessel in the coronary tree cannot be edited.</p> <p>Workaround/Resolution: Ensure that the bifurcated graft being created is a coronary graft. Peripheral grafts should not be placed in the coronary tree.</p>

Compatibility

The CMR KB 8.0 SU2 is compatible with Report Wizard 8.0 and SRCT 8.0 or later and will not work with earlier versions.

Adult & Pediatric Echocardiography Knowledge Bases

Released Files

- Adult Echo
 - Echo.Adult.IACPlaceholder.8.0.cpPatch
- Pediatric Echo
 - Echo.Peds.Curves.8.0.cpPatch
 - Import.ReferenceRanges.Boston_2015_8.0.29.0.cpkbReferenceRanges
 - Import.ReferenceRanges.PHN_2017_8.0.24.0.cpkbReferenceRanges
- Adult and Pediatric Echo
 - CriticalAS.8.0.cpPatch

New Features

No new features have been added to the Adult and Pediatric Echocardiography knowledge bases for 8.0 SU2.

Enhancements

The following enhancements have been added to the Adult and/or Pediatric Echo knowledge bases in this release:

ID	Enhancement Description	CP Codes
18803	<p>Echo Adult Only - Previously, imported (or manually entered) measurements would satisfy IAC required placeholders for applicable cardiac structures when imported/entered prior to other findings.</p> <p>The patch, Echo.Adult.IACPlaceholder.8.0.cpPatch, marks these placeholders as being insensitive to measurements so that they will not be satisfied when measurements are imported or entered manually prior to the entry of findings for applicable cardiac structures.</p>	NA
18890	<p>Echo Peds Only - The Boston and Pediatric Heart Network (PHN) normal reference range modules have been modified to allow changes to reported measurement units and precision.</p>	NA

As a supplement to enhancement 18890 listed above, this service update includes a patch, **Echo.Peds.Curves.80.cpPatch** which does the following:

- Adjusts the script **Logic.CalculatePriorNormalCurves**, allowing trend plot isopleths to be rendered in display units, thereby permitting unit changes. (Does not apply to ACV.)
- Removes incorrect “unitCode” from two fetal volumes, which generated confusing error messages, but no incorrect behavior, during mass unit change implementation.

Resolved Issues

The following known issues for the Echo Adult and Echo Peds knowledge bases have been resolved for the 8.0 SU2 release.

ID	Resolution Description	CP Codes
19050	Adult and Pediatric Echo - The sentence template for aortic stenosis severity has been updated to include the finding for critical aortic stenosis, which had inadvertently been omitted.	225590

Remaining Open Issues

The Echo knowledge bases exhibit the following, yet unresolved, known open defects at this time:

ID	Open Issue Description/Workaround
16578	Some of the date format options that are expected to be in the knowledge base may be missing. Workaround/Resolution: A different date format may be selected.

Compatibility

The Adult and Pediatric Echo 8.0 SU2 knowledge bases are compatible with Report Wizard 8.0 and SRCT 8.0 or later and will not work with earlier versions. **NOTE: The enhancement to the IAC placeholders in the Adult Echo KB requires Report Wizard 8.0.49 or greater. Additionally, the ability to change the status of the IAC placeholders to ignore/not ignore measurements on a patched KB requires SRCT 8.0.126 or greater.**

Vascular Knowledge Base

Released Files

- Vascular.Diagrams.8.0.SU2.CPPatch

New Features

No new features have been added to the Vascular KB for the 8.0 SU2 release.

Enhancements

No new enhancements have been added to the Vascular KB for the 8.0 SU2 release.

Resolved Issues

The following known issues for the Vascular knowledge base have been resolved for the 8.0 SU2 release.

ID	Resolution Description	CP Codes
18966	Previously, if a lesion was recorded in a vessel on the venous diagram and then properties were added to that vessel through the Vein table, the lesion was removed from the diagram and could not be added back. Now additional properties can be added to the vessel through the vein table without affecting the lesion on the diagram.	NA

Remaining Open Issues

The Vascular knowledge base exhibits the following, yet unresolved, known open defects at this time:

ID	Open Issue Description/Workaround
13911	<p>Aortic Arch diagram: Aneurysms placed in the aortic arch may have an odd appearance.</p> <p>Workaround/Resolution: This is due to the curvature of the aortic arch. Currently, there is no workaround. This appearance will be reviewed with end users to determine if a change is required.</p>
16578	<p>Some of the date format options that are expected to be in the knowledge base may be missing.</p> <p>Workaround/Resolution: A different date format may be selected.</p>
17154	<p>Lower Extremity Arterial Diagram: The diagram fails to load in rare circumstances when initially accessing the Diagrams tab.</p> <p>Workaround/Resolution: Navigating to another tab, then navigating back to the Diagrams tab will result in the display of the diagram.</p>
18247	<p>Venous Diagrams: When adding multiple lesions to a vein from the lesion form, each is placed in a default spot in the vessel in order to avoid overlapping. If the most proximal lesion is moved or changed, the remaining lesions get repositioned.</p> <p>Workaround/Resolution: Should lesions be moved spontaneously in this situation; they may be repositioned back to their starting locations manually.</p>
18539	<p>Venous Diagrams: Thrombus lesions in the distal SVC and IVC appear to but off abruptly on the diagram.</p> <p>Workaround/Resolution: Position the distal extent of the lesion slightly above the end of the vessel.</p>
18727	<p>Peripheral arterial diagrams: If a peripheral graft has the “bifurcated” qualifier but only one target vessel is recorded, its endpoints cannot be moved.</p> <p>Workaround/Resolution: Recreate the peripheral graft without the bifurcated qualifier or enter the second target vessel.</p>
18981	<p>If a stenosis is added to a vessel in the artery table and is then deleted, the sentence indicating the presence of the lesion persists in the report.</p> <p>Workaround/Resolution: Right-click on the sentence in the report and select Delete Finding to remove the finding from the report.</p>

ID	Open Issue Description/Workaround
18984	<p>When recording impressions for Lower Extremity PAD vascular results by using the Overall Interpretation picklist, the sentence displayed for “Incompressible arteries” represents a sentence used for a screening study.</p> <p>Workaround/Resolution: Right-click on the sentence in the report and select Edit Sentence to activate the sentence editor. Edit the sentence as needed.</p>

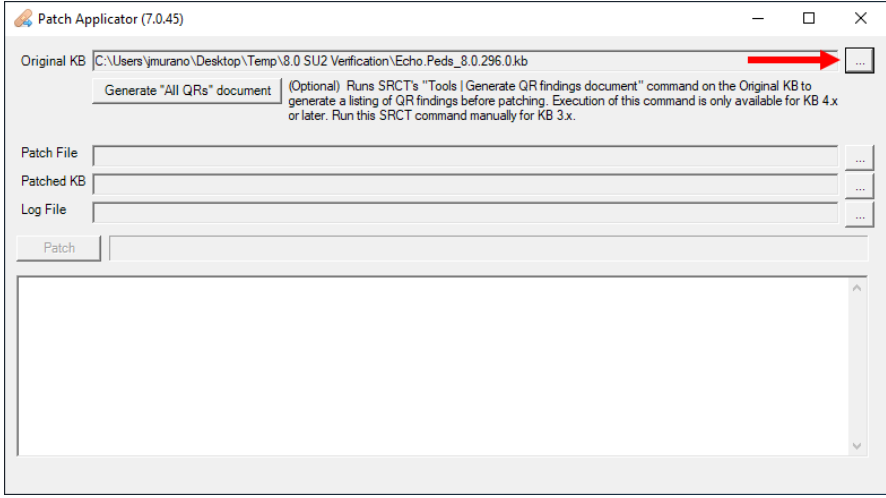
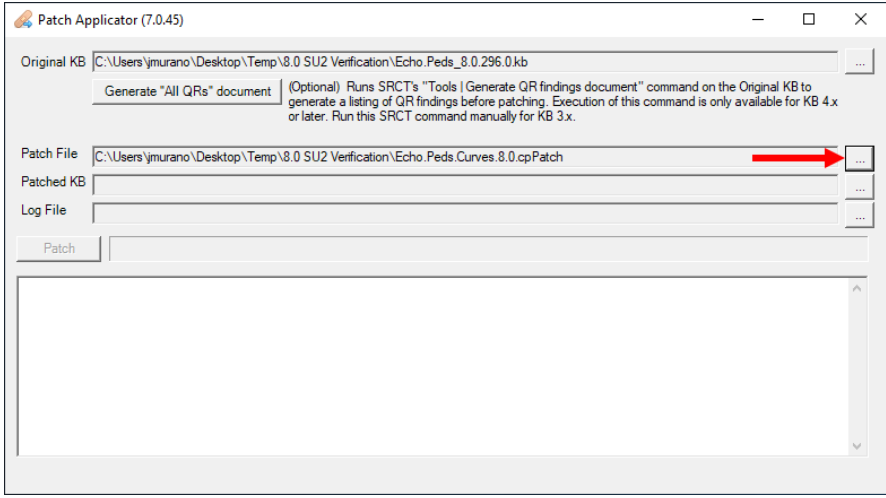
Compatibility

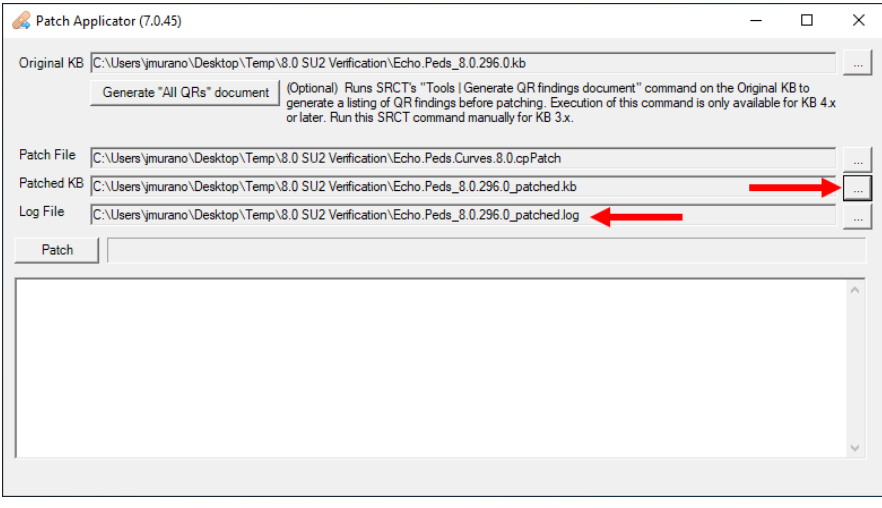
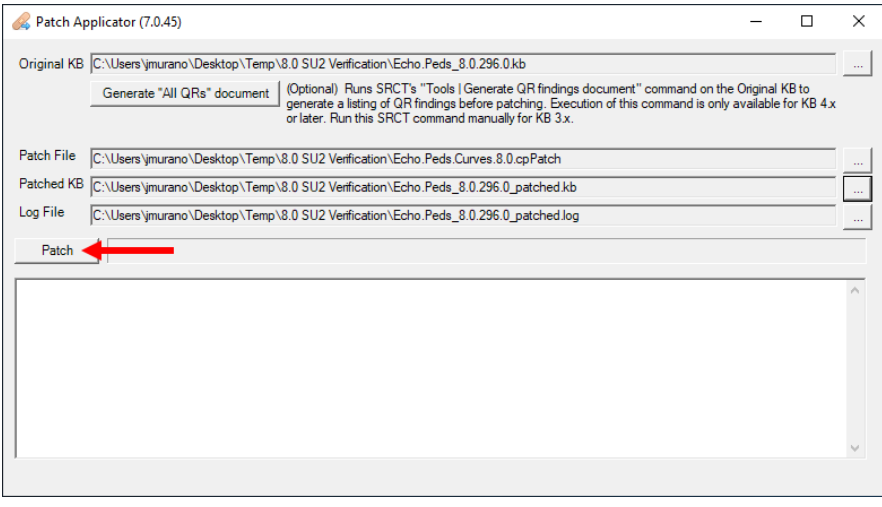
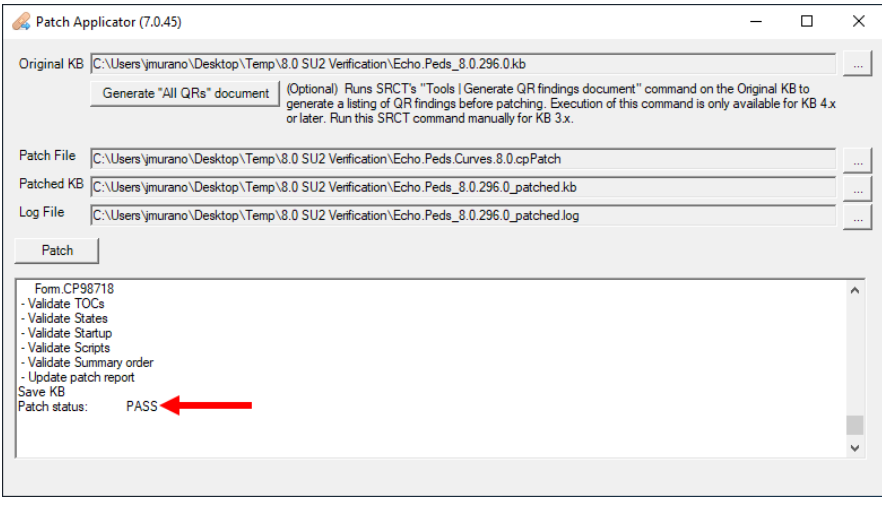
The Vascular KB 8.0 SU2 is compatible with Report Wizard 8.0 and SRCT 8.0 or later and will not work with earlier versions.

Patching Instructions

General Patch Application Instructions

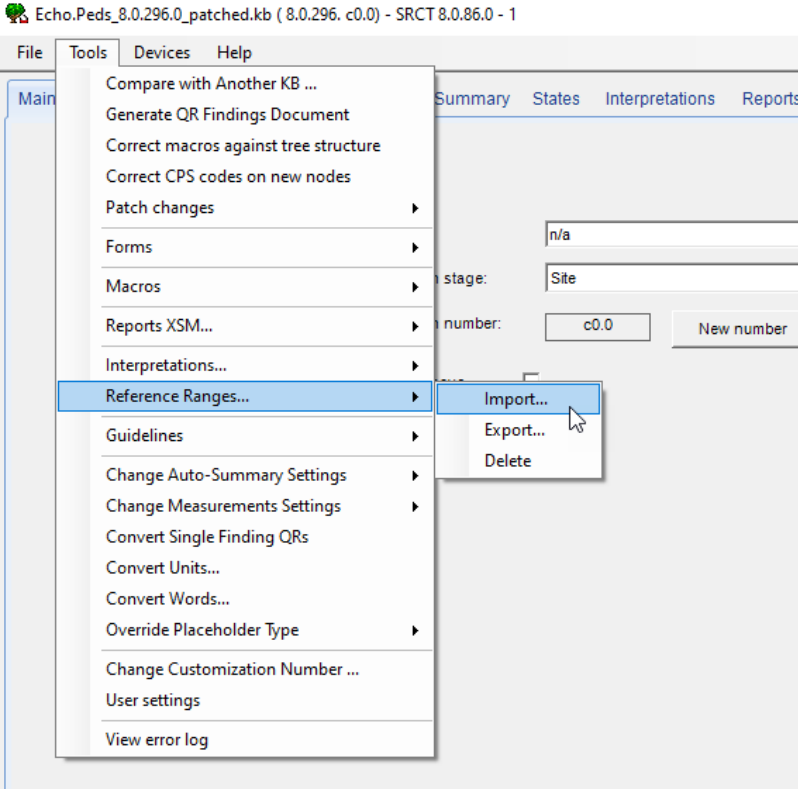
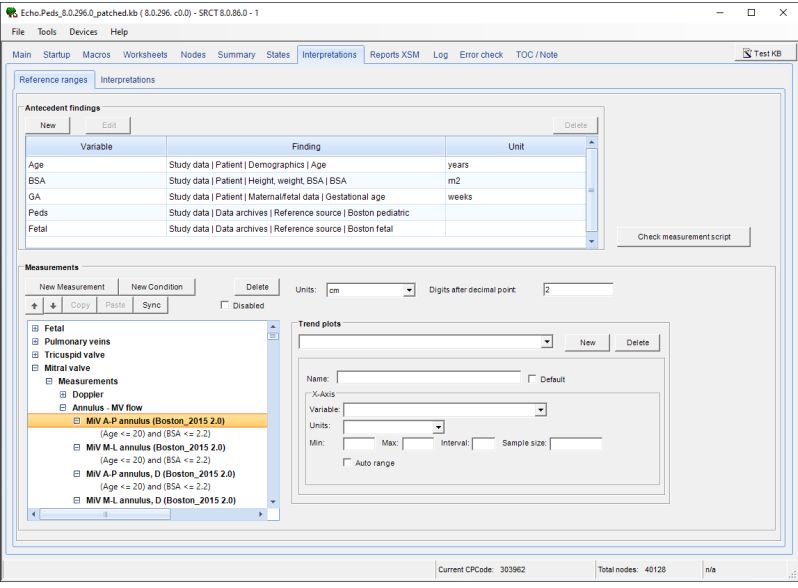
The present service update includes patches that should be applied to multiple knowledge bases using patch applicator. Instructions on the use of patch applicator are provided below. **NOTE: The patches provided in 8.0 SU2 must be applied using Patch Applicator 8.0 or later.**

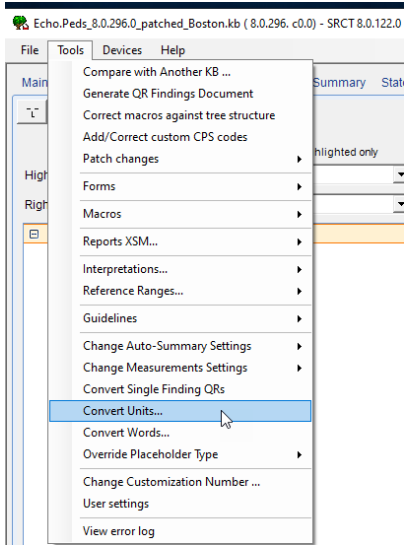
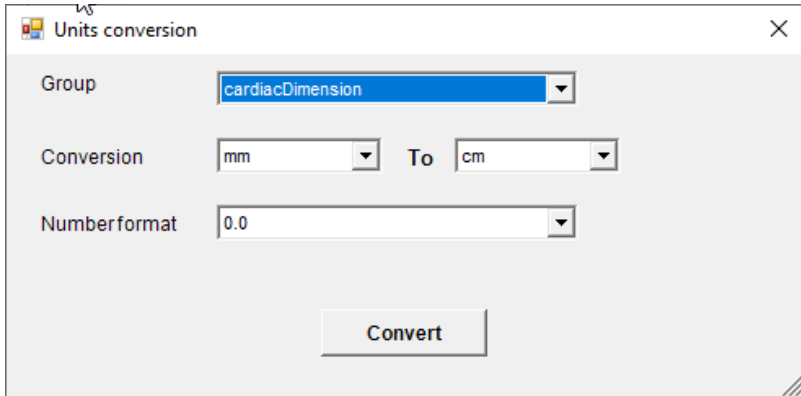
	Action	Explanation/Data
1	Download the KB to be patched through KBE.	This patch is applicable to the Peds Echo version 8.0 KB only.
2	Using Patch Applicator 8.0 or greater, select the ellipsis next to the Original KB field and navigate to and select the KB to be patched.	 <p>The screenshot shows the Patch Applicator (7.0.45) window. The 'Original KB' field contains the path 'C:\Users\jmurano\Desktop\Temp\8.0 SU2 Verification\Echo.Peds_8.0.296.0.kb'. A red arrow points to the ellipsis button to the right of this field. Below the 'Original KB' field is a button labeled 'Generate "All QRs" document' and a note: '(Optional) Runs SRCT's "Tools Generate QR findings document" command on the Original KB to generate a listing of QR findings before patching. Execution of this command is only available for KB 4.x or later. Run this SRCT command manually for KB 3.x.' There are also fields for 'Patch File', 'Patched KB', and 'Log File', each with its own ellipsis button. A 'Patch' button is located below these fields.</p>
3	Select the ellipsis next to the Patch File field and navigate to and select the patch that is to be applied.	 <p>The screenshot shows the Patch Applicator (7.0.45) window. The 'Original KB' field contains the path 'C:\Users\jmurano\Desktop\Temp\8.0 SU2 Verification\Echo.Peds_8.0.296.0.kb'. The 'Patch File' field contains the path 'C:\Users\jmurano\Desktop\Temp\8.0 SU2 Verification\Echo.Peds.Curves.8.0.cpPatch'. A red arrow points to the ellipsis button to the right of the 'Patch File' field. The rest of the interface is identical to the previous screenshot.</p>

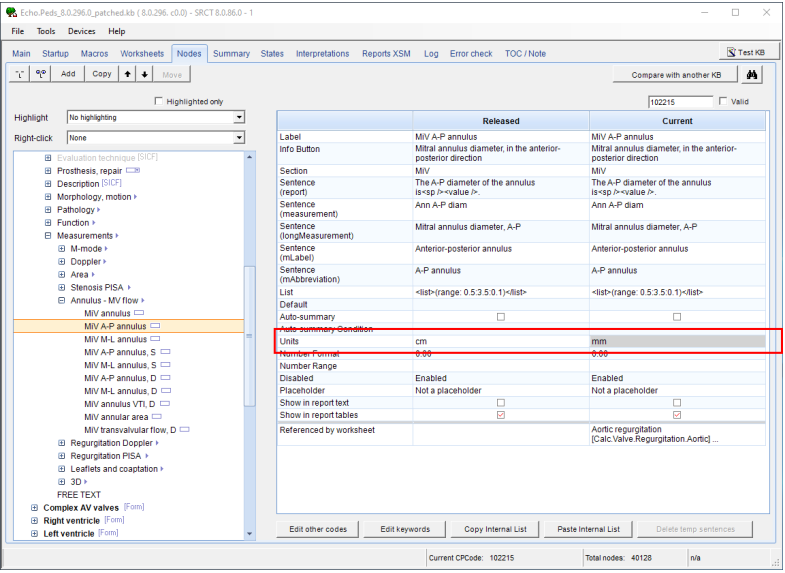
	Action	Explanation/Data
4	<p>Select the ellipsis next to the Patched KB field and enter a name for the patched KB.</p> <p>NOTE: The Log File field will be populated automatically upon naming the patched KB.</p>	
5	<p>Click the Patch button to apply the patch and save the patched KB.</p>	
6	<p>When the patch installation is completed, the Patch status will be revealed at the bottom of the applicator dialog.</p> <p>NOTE: The patch applicator reports errors and warnings in the KB, and this does not imply that the patch failed or that it caused these errors or warnings. If the status is “PASS”, then the patch worked and can be tested.</p> <p>If the patch application fails, please contact ASCEND Informatics.</p>	

	Action	Explanation/Data
7	Patch Applicator automatically saves the updated KB with the name provided in the Patched KB field.	<p>Most patches <u>will not</u> alter the version number of the knowledge base or its compatibility with Report Wizard*.</p> <p>The enhancement to the IAC placeholders in the Adult Echo KB requires Report Wizard 8.0.49 or greater. Additionally, the ability to change the status of the IAC placeholders to ignore/not ignore measurements on a patched KB requires SRCT 8.0.126 or greater.</p>

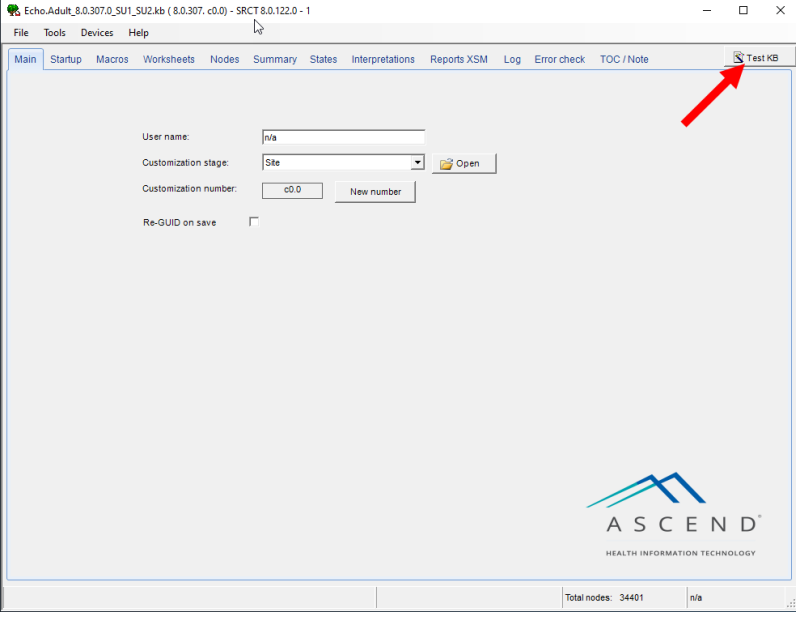
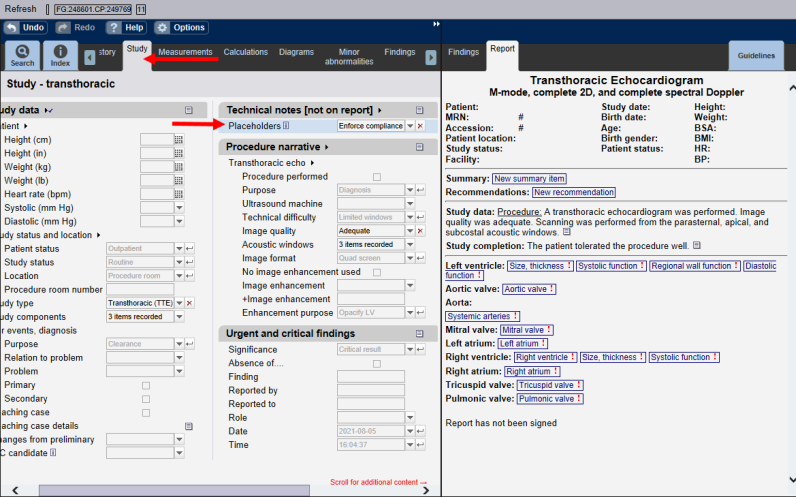
Testing the Pediatric Units Conversion

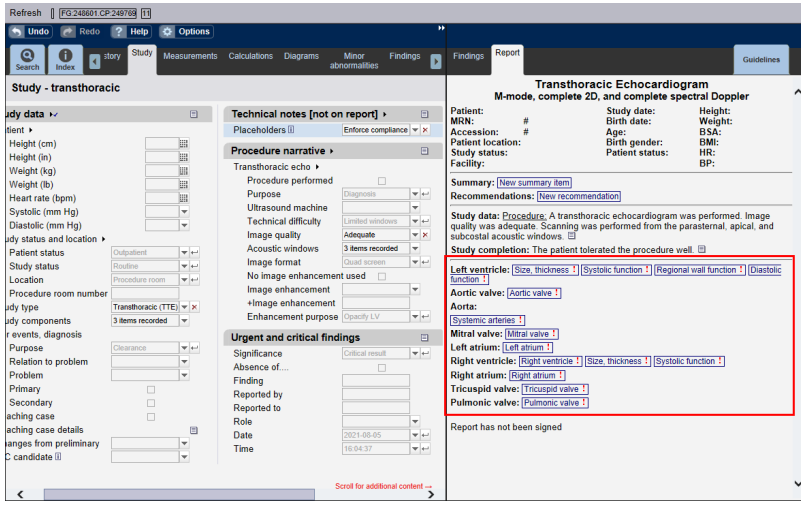
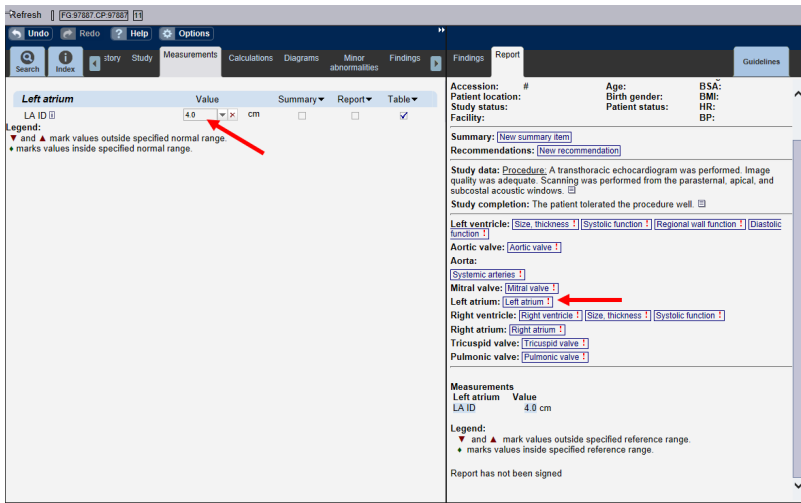
	Action	Image/Explanation
1	Open the patched Echo Peds KB in SRCT.	NOTE: This patch should be tested using SRCT 8.0 .
2	Import the Boston normals reference range module or PHN normals reference range module provided as part of KB 8.0 SU2 by selecting Tools > Reference Ranges... > Import	
3	On the Interpretations tab, Reference Ranges subtab, and confirm that the reference ranges have imported.	

	Action	Image/Explanation
4	<p>Select Tools > Convert Units... in the menu bar.</p>	 <p>The screenshot shows the 'Tools' menu in the software interface. The 'Convert Units...' option is highlighted in blue. Other visible options include 'Compare with Another KB ...', 'Generate QR Findings Document', 'Correct macros against tree structure', 'Add/Correct custom CPS codes', 'Patch changes', 'Forms', 'Macros', 'Reports XSM...', 'Interpretations...', 'Reference Ranges...', 'Guidelines', 'Change Auto-Summary Settings', 'Change Measurements Settings', 'Convert Single Finding QRs', 'Convert Words...', 'Override Placeholder Type', 'Change Customization Number ...', 'User settings', and 'View error log'.</p>
5	<p>Convert the units on all linear unit classes to mm with one decimal place precision by</p> <ul style="list-style-type: none"> • Selecting a linear unit class in the Group picklist • Selecting the appropriate units in the Conversion picklists • Selecting the desired format in the Number format picklist (optional) <p>Select Convert to accept the changes.</p>	 <p>The screenshot shows the 'Units conversion' dialog box. It contains three picklists: 'Group' (set to 'cardiacDimension'), 'Conversion' (set to 'mm' and 'To' set to 'cm'), and 'Number format' (set to '0.0'). A 'Convert' button is located at the bottom right of the dialog.</p>

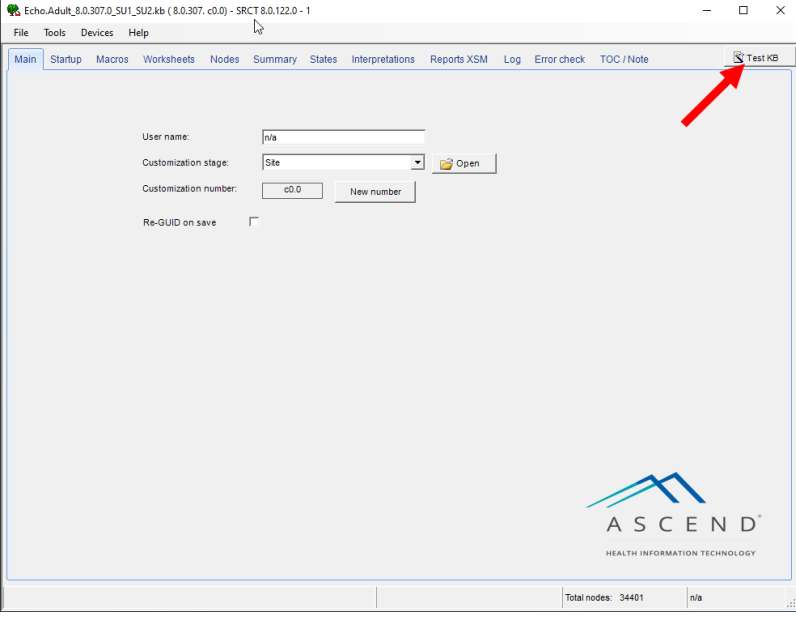
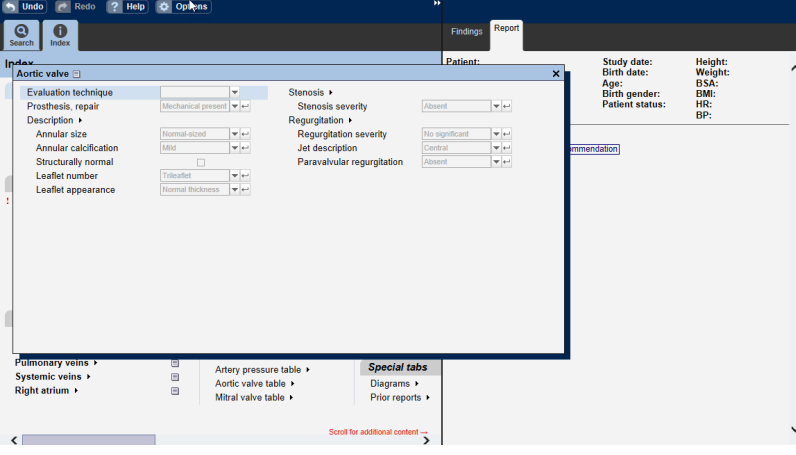
	Action	Image/Explanation
6	Confirm that the units were changed successfully and that no errors were reported.	 <p>The screenshot shows the 'MIV A-P annulus' configuration window. The 'Units' field is highlighted in red, showing a change from 'cm' to 'mm'. The 'Number Format' field is also highlighted in red, showing a change from '0.00' to '0.00'. The 'Auto-summary' checkbox is checked. The 'Referenced by worksheet' field is empty.</p>
7	Run an error check and save the KB.	Confirm that there are no errors and validate any changes that require validation.

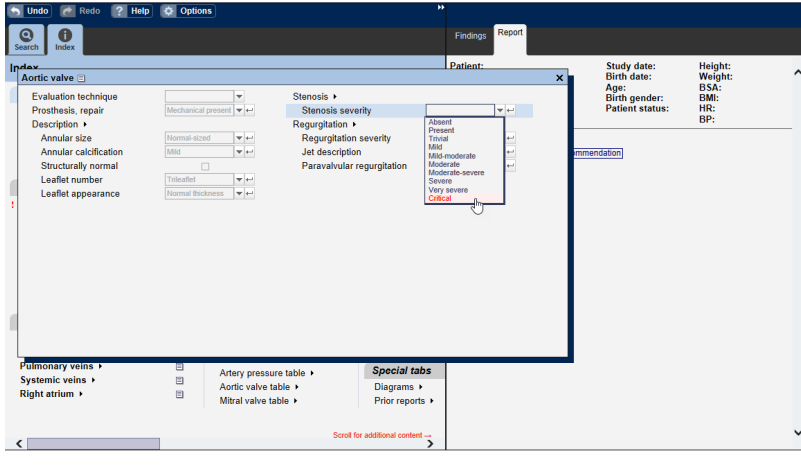
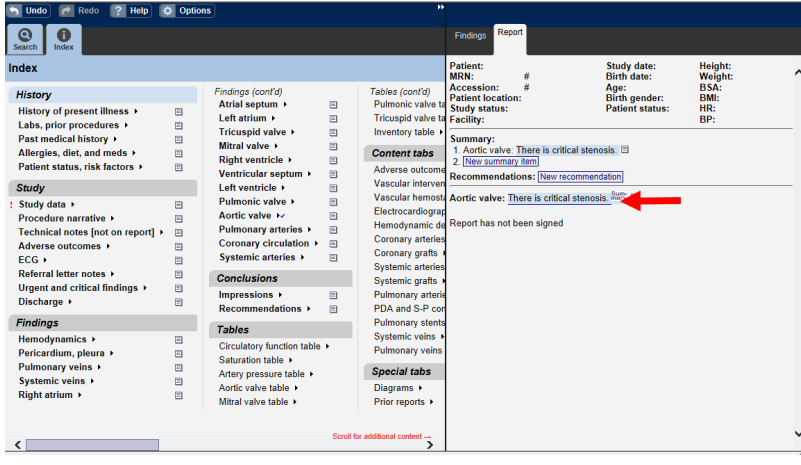
Testing the IAC Placeholders

	Action	Image/Explanation
1	Open the patched KB in SRCT .	NOTE: This patch must be tested using SRCT 8.0 or greater.
2	Click Test KB to launch Report Wizard.	 <p>The screenshot shows the SRCT software interface. The title bar reads 'Echo-Adult_8.0.307.0_SU1_SU2.kb (8.0.307. c0.0) - SRCT 8.0.122.0 - 1'. The menu bar includes 'File', 'Tools', 'Devices', and 'Help'. The main menu has 'Main', 'Startup', 'Macros', 'Worksheets', 'Nodes', 'Summary', 'States', 'Interpretations', 'Reports XSM', 'Log', 'Error check', and 'TOC / Note'. A 'Test KB' button is located in the top right corner of the main window, highlighted with a red arrow. Below the menu bar, there are input fields for 'User name' (n/a), 'Customization stage' (Site), and 'Customization number' (c0.0). There is an 'Open' button and a 'New number' button. A 'Re-GUID on save' checkbox is also present. The ASCEND logo and 'HEALTH INFORMATION TECHNOLOGY' are visible in the bottom right. The status bar at the bottom shows 'Total nodes: 34401' and 'n/a'.</p>
3	Start a blank TTE study, then navigate to the Study tab. In the Technical notes section, select Enforce compliance in the Placeholders picklist.	 <p>The screenshot shows the SRCT software interface with the 'Study' tab selected. The 'Technical notes [not on report]' section is expanded, showing a 'Placeholders' picklist with 'Enforce compliance' selected. The 'Procedure narrative' section is also visible, showing 'Trans thoracic echo' and 'Procedure performed'. The 'Urgent and critical findings' section is also visible. The right side of the screen shows the 'Transthoracic Echocardiogram' report, including patient information, summary, and recommendations. The status bar at the bottom shows 'Scroll for additional content'.</p>

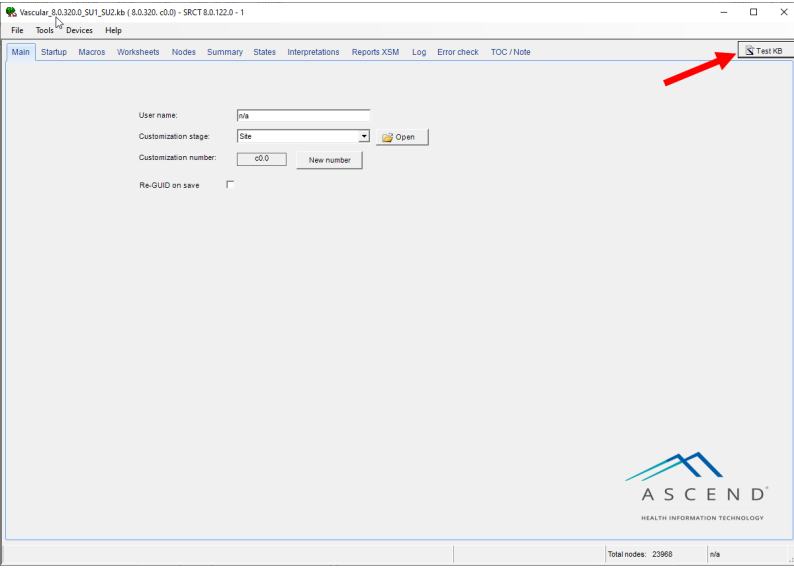
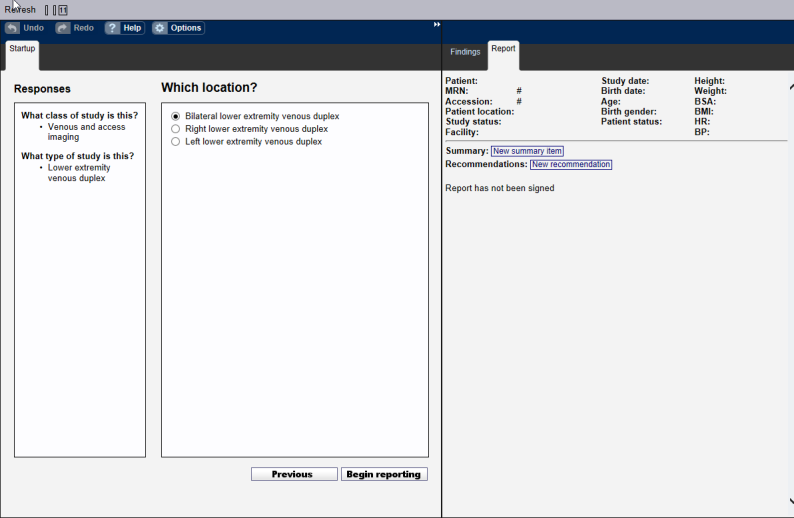
	Action	Image/Explanation
4	<p>Confirm that the IAC required placeholders appear in the report.</p>	
5	<p>Manually enter a measurement for an anatomical structure with a required placeholder (e.g., Left Atrium). <u>Do not</u> enter any findings prior to entering the measurement.</p> <p>Confirm that the required placeholder remains next to the anatomic structure heading in the report.</p>	

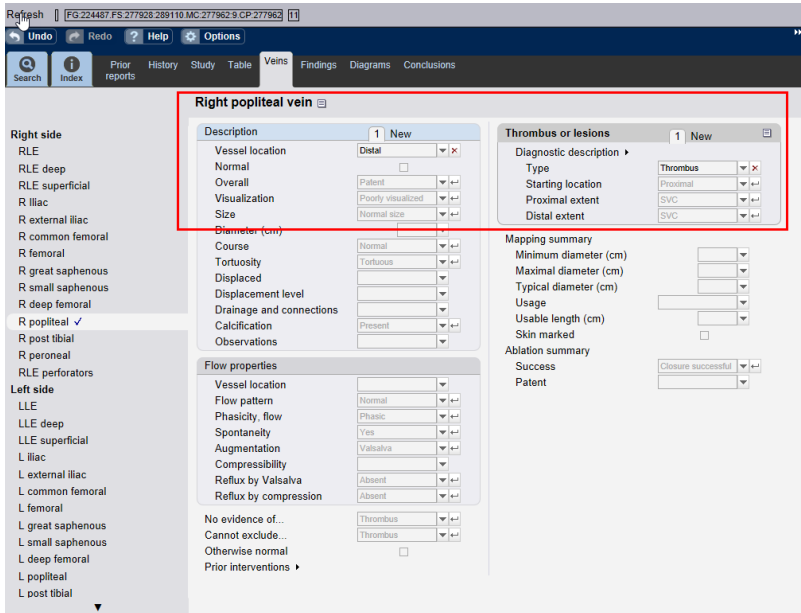
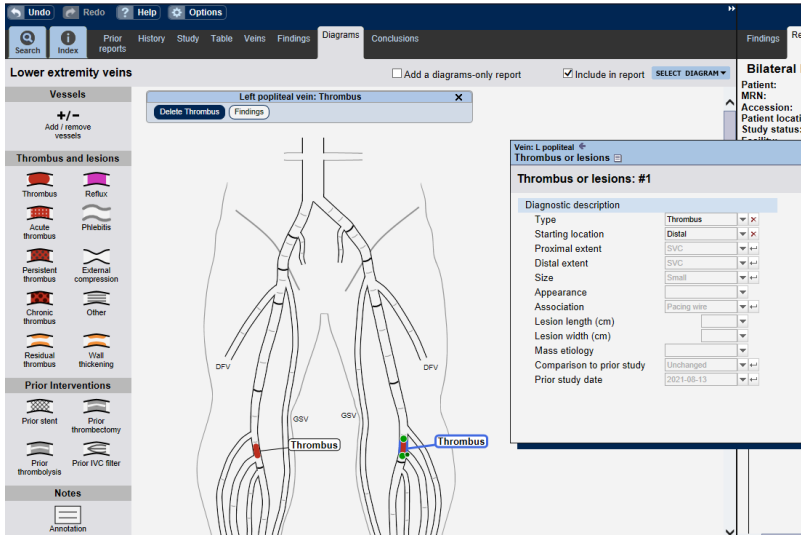
Testing the Critical Aortic Stenosis Sentence

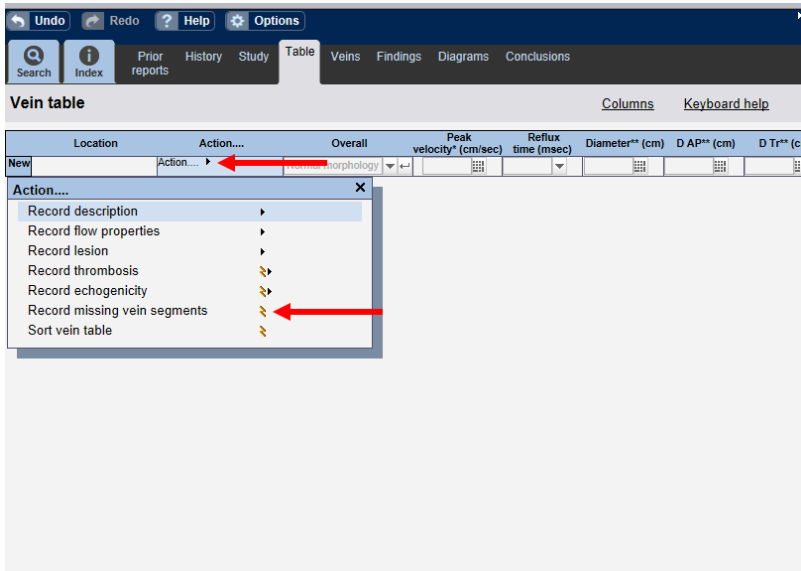
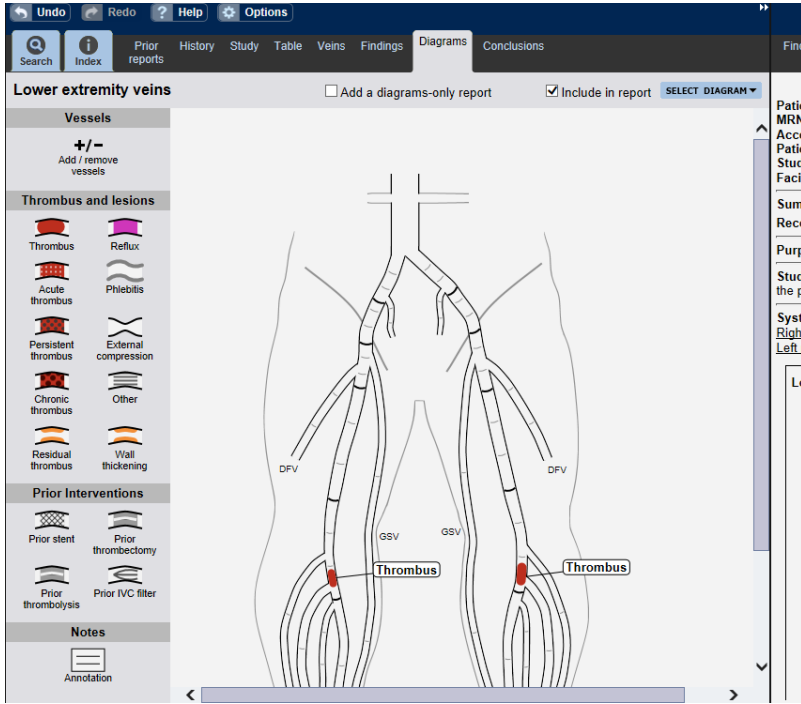
	Action	Image/Explanation
1	Open the patched KB in SRCT .	NOTE: This patch must be tested using SRCT 8.0 or greater.
2	Click Test KB to launch Report Wizard.	
3	Start a blank study using Enter Manually in the start screen, then navigate to the Aortic Valve form. tab.	

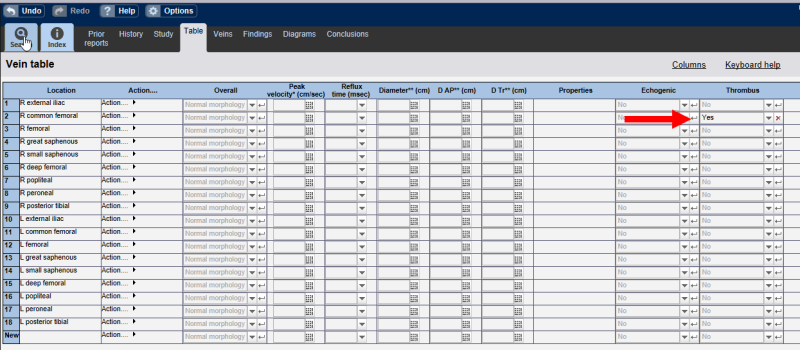
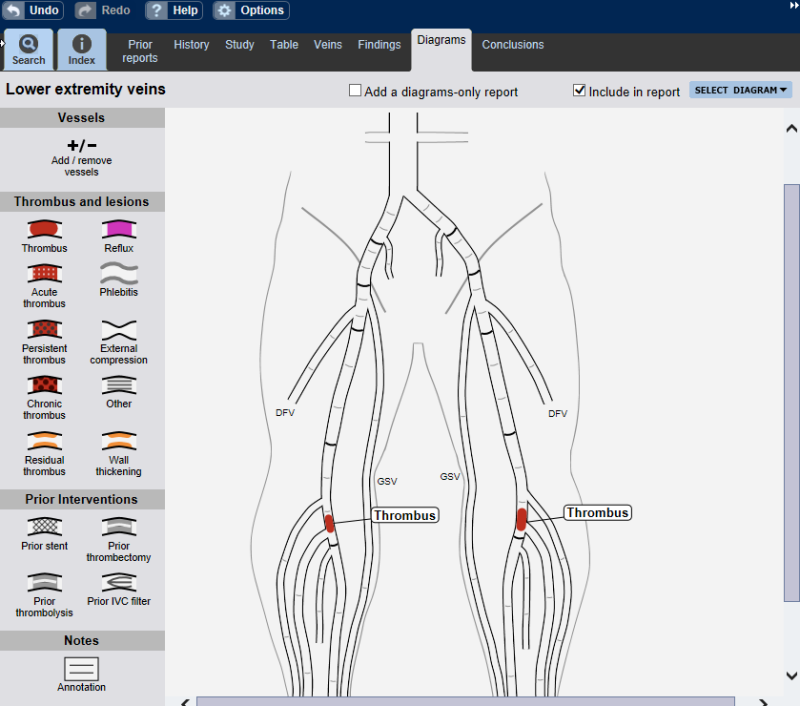
	Action	Image/Explanation
4	Expand the Stenosis severity picklist and select Critical .	 <p>The screenshot shows the 'Aortic valve' configuration window. The 'Stenosis severity' dropdown menu is open, displaying options: Absent, Present, Trivial, Mild, Mid-moderate, Moderate, Moderate-severe, Severe, Very severe, and Critical. The 'Critical' option is highlighted with a mouse cursor.</p>
5	Confirm that the critical stenosis sentence appears in the report.	 <p>The screenshot shows the 'Findings' report page. In the 'Summary' section, the text '1 Aortic valve: There is critical stenosis.' is displayed. A red arrow points to this sentence. Below it, the text 'Report has not been signed' is visible.</p>

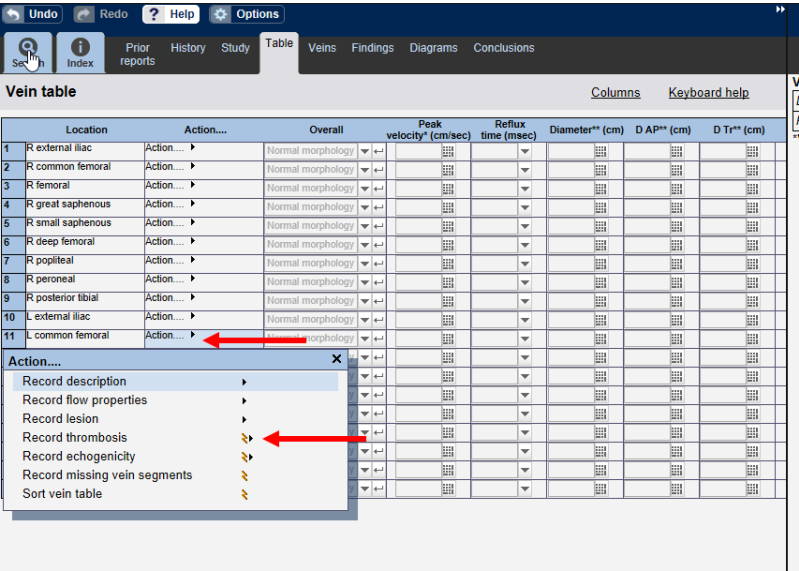
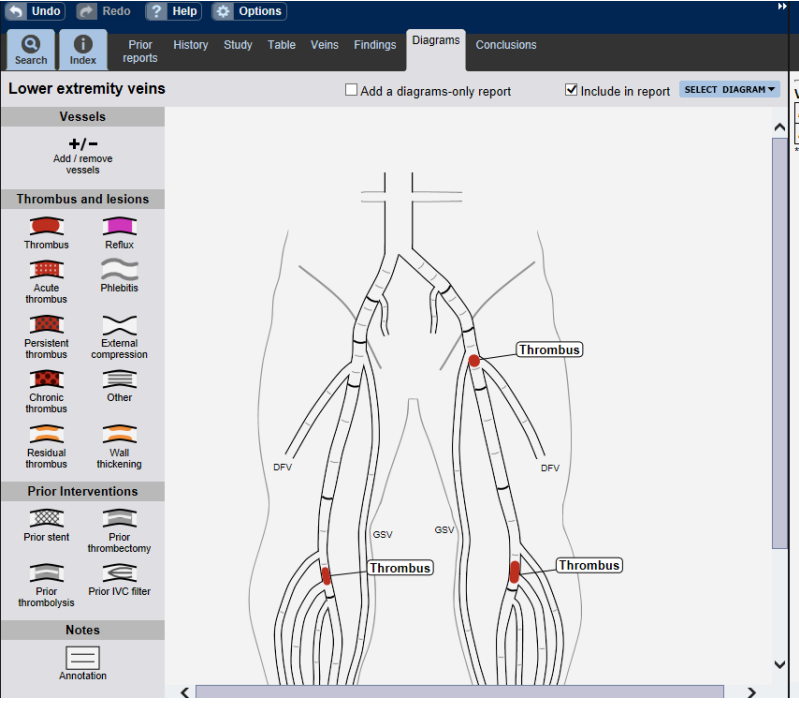
Testing the Venous Diagrams

	Action	Image/Explanation
1	Open the patched <u>Vascular</u> KB in SRCT .	NOTE: This patch must be tested using SRCT 8.0 or greater.
2	Click Test KB to launch Report Wizard.	
3	Answering the start screen questions, start a Venous study	

	Action	Image/Explanation
4	Navigate to the Veins tab and record a thrombus in the Distal Right Popliteal.	 <p>The screenshot shows the 'Veins' tab in the software. The 'Right popliteal vein' is selected in the left-hand menu. The main area displays the 'Right popliteal vein' details, including a 'Thrombus or lesions' panel with a 'Thrombus' entry. The 'Thrombus or lesions' panel includes fields for 'Type' (Thrombus), 'Starting location' (Distal), 'Proximal extent' (SVC), and 'Distal extent' (SVC). Other panels include 'Description', 'Flow properties', and 'Mapping summary'.</p>
5	Navigate to the Diagrams tab and record a thrombus in the Distal Left Popliteal.	 <p>The screenshot shows the 'Diagrams' tab in the software. A diagram of the lower extremity veins is displayed, with a 'Thrombus' recorded in the distal left popliteal vein. The 'Thrombus or lesions: #1' panel is open, showing details for the recorded thrombus, including 'Type' (Thrombus), 'Starting location' (Distal), 'Proximal extent' (SVC), and 'Distal extent' (SVC). Other panels include 'Vessels', 'Thrombus and lesions', 'Prior Interventions', and 'Notes'.</p>

	Action	Image/Explanation
6	<p>Navigate to the Table tab to display the Vein table. Select Action and then Record missing vein segments.</p>	 <p>The screenshot shows the 'Vein table' interface. The 'Table' tab is selected in the top navigation bar. Below the navigation bar, there are tabs for 'Search', 'Index', 'Prior reports', 'History', 'Study', 'Table', 'Veins', 'Findings', 'Diagrams', and 'Conclusions'. The 'Table' tab is active, displaying a table with columns: 'Location', 'Action...', 'Overall', 'Peak velocity* (cm/sec)', 'Reflux time (msec)', 'Diameter** (cm)', 'D AP** (cm)', and 'D Tr** (cm)'. A red arrow points to the 'Action...' dropdown menu in the table header. A second red arrow points to 'Record missing vein segments' in the dropdown menu.</p>
7	<p>Navigate back to the Diagrams tab and confirm that the two previously drawn lesions remained in the diagram in their original vessel/segment.</p>	 <p>The screenshot shows the 'Diagrams' tab interface. The 'Diagrams' tab is selected in the top navigation bar. Below the navigation bar, there are tabs for 'Search', 'Index', 'Prior reports', 'History', 'Study', 'Table', 'Veins', 'Findings', 'Diagrams', and 'Conclusions'. The 'Diagrams' tab is active, displaying a diagram of the lower extremity veins. The diagram shows the venous system with two red thrombus lesions labeled 'Thrombus'. The diagram is titled 'Lower extremity veins' and includes a legend for 'Vessels', 'Thrombus and lesions', 'Prior Interventions', and 'Notes'. The 'Thrombus and lesions' legend includes items like 'Thrombus', 'Reflux', 'Acute thrombus', 'Phlebitis', 'Persistent thrombus', 'External compression', 'Chronic thrombus', 'Other', 'Residual thrombus', and 'Wall thickening'. The 'Prior Interventions' legend includes items like 'Prior stent', 'Prior thrombectomy', 'Prior thrombolysis', and 'Prior IVC filter'. The 'Notes' legend includes 'Annotation'.</p>

	Action	Image/Explanation
8	Navigate back to the Vein table and record Yes for thrombus in the Right Common Femoral Vein .	
9	Navigate to the Diagrams tab and confirm that no thrombus has been added to the Right Common Femoral vein .	

	Action	Image/Explanation
10	Return to the Vein table select Actions in the Left Common Femoral vein row, then select Record Thrombosis .	
11	On the Diagrams tab, confirm that the thrombus has been added to the Left Common Femoral Vein .	



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