

HOME

Echo

Stress Echo

Stress Only

Nuclear Stress

NIPV

Universal Viewer for
Cardiologist

Universal Viewer for
Non-Reporting Physicians
(PedEcho, Cath, CV Surgeons)

Printing Reports from
Centricity Cardio Workflow

TomTech

Reference

For Questions contact
210-575-0660

METHODIST HEALTHCARE

"Serving Humanity to Honor God"

www.SAHealth.com



Centricity Cardio Workflow (CCW) *Physician Application Training*

Last updated: 7/25/2018

NEXT



Open/log into "Centricity Cardio Workflow",

Physician Filters should be set as seen below:

Examination | Reading Physician Worklist | Current User | Your organization

You should see your patient with a status of Ready for Review.

Double click on Exam line to open Exam.

06/13/2018	12:50 PM	Ready For Review
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The system will automatically open the image set on the other monitor.

Main Form:

Patient Section - Confirm/update

Examination Verify **Exam Type** is correct in the Section. This controls the final report description.

Note: AUC is a required physician entry field.

Exam Detail: Confirm/update

Enter Indication/Diagnosis

Staff Section: Ensure you are listed as Reading Physician, if not change it.

All other fields should be completed from the Tech at this point:

Sonographer, Stress Tech, Reading Physician

Use the Type Ahead feature to find names due to large name dropdown lists.

All data entered is automatically saved within the report.

Tech will have entered all their data and you will see that in the report:

Patient Data including BP / HR / Rhythm / etc.

The screenshot shows a sidebar menu for the ECHO system. At the top, it says 'ECHO' and '6/15/2018' with a checkmark icon. The menu items are: Main Form, Exam Info, Tech Comments, Measurements, All Echo Forms, Echo - Overview, Stress Echo, Stress ECG Results, and Stress Echo Results.

Exam Info Tab (left side of the page): It has 4 sub-forms

Clinical Data -(not required), but positive statements will show on report

Procedure Data -(Probe/Contrast) **Confirm/Update**

Nursing Notes -Conscious Sedation/Meds/probe data, etc. (TEE)

Medication -Document medications administered (TEE)

Tech Comments- If the tech needs to communicate something to you it will be in this area. This does not go to the final report, only used for internal communication.

Stress Echo/Stress (ECG) Data will be processed from the data entered at the Stress Cart itself and will be available under this tab for review and to add/update the data that is present.

Stress Echo/Stress (Echo) Results Data to enter specific Stress Echo Imaging Data – Stress Echo Measurements are located in this area for Stress Echo

Quick Report called "Base Report Template" has been applied by the tech, if not you can add it.



Historical reports that are in the system are available under the All Studies Icon

Stress Report with ECG tracings are located under All Studies Button on the Main Ribbon.

It will be in the lower section of "Imported" reports

Stress ECG Folder will still be available for review as well.

Double click to open in PDF

Status	Exam Mode	Exam No.	Adm. No.	Creation Date	R	V	Confirmation Date	Name	Modality		
▼	▲	▼	▼					▲	▼		
▶	ECG	ECG-610	A-1829	03/30/2018 01:13 PM	1	1	03/30/2018 01:13 PM	Imported: PDF	CASE		
▶	ECG	ECG-608	A-1829	03/30/2018 01:05 PM	1	1	03/30/2018 01:05 PM	Imported: PDF	CASE		

Stress Data will be processed from the data entered at the Stress Cart itself and will be available under this tab to allow you to **review/add/update** the data that is present.

This data is dependent upon the Stress Tech/Supervisor to enter, if not the physician will need to fill in the blanks for the report. The data in Case Impression and Case Conclusion is greyed out as this is a read only field of data typed into the Stress Cart. It is shown for information purposes only and will not be present the physician report.

Duke Treadmill Score for Exercise Stress should come from the cart

If it does not, or if the physician does not agree it can be updated in the section below. Then, it will reflect on the physician report as physician updated/calculated field.

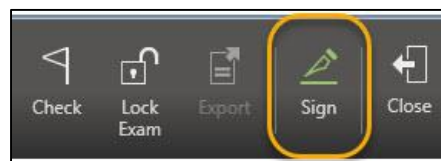
ECHO

Read the report on the right side and click the sentence to make changes – clicking the sentence that needs to be corrected will automatically take you to the form page where that is to be changed (a blue box will appear to guide your eye the field).

The screenshot shows a sidebar on the left with various report sections. The 'Conclusion' section is highlighted with a yellow box. Other sections include Main Form, Exam Info, Tech Comments, Measurements, All Echo Forms, Echo - Overview, Stress Echo, Key Image/Waveform Archive, and IAC. The right pane shows the 'Conclusion' section with fields for Conclusions, Recommendations, Comparisons, and various measurements like Heart Rate, Blood Pressure, etc.

Select Conclusions tab and enter summary findings you want to have in the conclusions section of the report.

Select the Sign button from the upper right ribbon.



Enter your password for your electronic signature and click sign, you will return to your worklist to select the next patient ready for your review.

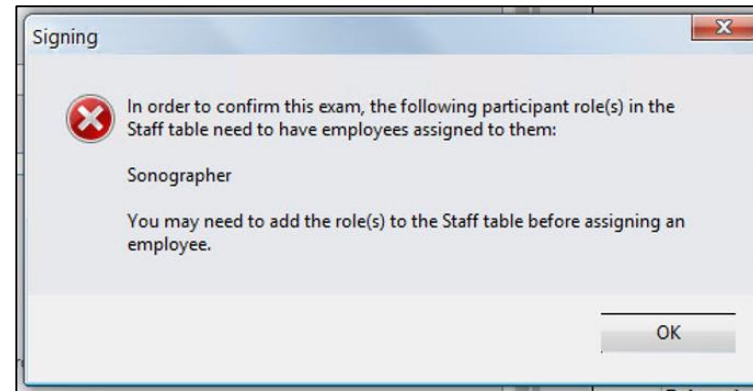
The 'Sign Report(s)' dialog box shows fields for User Name (cfrankli) and Password. It also has a 'Sign as: Reading Physician' section with a checkbox for 'Finalize for all roles'. Below, there's a section 'Reports to be created and routed:' with checkboxes for 'MHS Adult Echo_StressEcho' (checked), 'MHS StressEchoDualSign*', 'MHS Cardio Oncology Echo', and 'NonInvasive Referral Letter'.

Required Fields: If you see this window, please fix the items that are required (orange fields). You can use the blue colored links to go directly to the field that needs to be addressed.

As you complete the item it will drop off the list and when empty you can close and review the report and sign or use the sign button on this window.

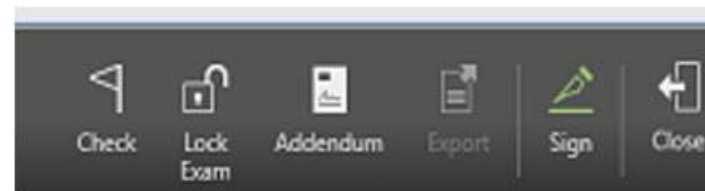
Field Name	Description	Field Location
Image Quality	Required	Main Form
Height	Required	Main Form
Height (")	Input field for calculation of field 'Height'	Main Form

Required Clinical Team Member is not listed on the Main Form under Staff you see this popup.



When complete select the sign button again from the Main Ribbon and complete the record.

Addendum: If a correction is needed, open the exam and select **Addendum** and enter the text that you need and sign the report again. The addended text will show at the top of the report.



Stress Echo



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06/13/2018	12:50 PM	Ready For Review
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Main Form:

Patient Section - Confirm/update

Examination Verify **Exam Type** is correct in the Section. This controls the final report description.

Note: AUC is a required physician entry field.

Exam Detail: Confirm/update

Enter Indication/Diagnosis

- Examination			
AUC	<input type="text"/>	<input type="button" value="v"/>	
Procedure Ordered	<input type="text"/>	<input type="button" value="v"/>	Facility Location <input type="text"/> <input type="button" value="v"/>
Exam Type	<input type="text" value="SE"/>	<input type="button" value="v"/>	Proc. Components <input type="text"/> <input type="button" value="v"/>
Procedure Status	<input type="text"/>	<input type="button" value="v"/>	Procedure Views <input type="text"/> <input type="button" value="v"/>

Stress Echo

Staff Section: Ensure you are listed as Reading Physician, if not change it.

All other fields should be completed from the Tech at this point:

Sonographer, Stress Tech, Reading Physician

Use the Type Ahead feature to find names due to large name dropdown lists.

All data entered is automatically saved within the report.

Tech will have entered all their data and you will see that in the report:

Patient Data including BP / HR / Rhythm / etc.

ECHO
6/15/2018

- Main Form
- ▶ Exam Info
- Tech Comments
- Measurements
- ▶ All Echo Forms
- ▶ Echo - Overview
- ▼ Stress Echo
 - Stress ECG Results
 - Stress Echo Results

Exam Info Tab (left side of the page): It has 4 sub-forms

Clinical Data -(not required), but positive statements will show on report

Procedure Data -(Probe/Contrast) **Confirm/Update**

Nursing Notes -Conscious Sedation/Meds/probe data, etc., such as TEE

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Stress Echo

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Stress Report with ECG tracings are located under All Studies Button on the Main Ribbon.

It will be in the lower section of "Imported" reports

Stress ECG Folder will still be available for review as well.

Double click to open in PDF

Status	Exam Mode	Exam No.	Adm. No.	Creation Date	R	V	Confirmation Date	Name	Modality		
▼	▲▲	▼	▲▲	▼				▲▲	▼		
▶	ECG	ECG-610	A-1829	03/30/2018 01:13 PM	1	1	03/30/2018 01:13 PM	Imported: PDF	CASE		
▶	ECG	ECG-608	A-1829	03/30/2018 01:05 PM	1	1	03/30/2018 01:05 PM	Imported: PDF	CASE		

Stress Data will be processed from the data entered at the Stress Cart itself and be available under this tab for review and to **review/add/update** the data that is present.

This data is dependent upon the Stress Tech/Supervisor to enter, if not the physician will need to fill in the blanks for the report. The data in Case Impression and Case Conclusion is greyed out as this is a read only field of data typed into the Stress Cart. It is shown for information purposes only and will not be present the physician report.

Duke Treadmill Score for Exercise Stress should come from the cart

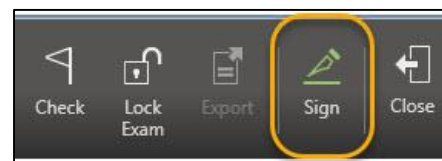
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Stress Echo

Read the report on the right side and click the sentence to make changes – clicking the sentence that needs to be corrected will automatically take you to the form page where it exists for you to modify (a blue box will appear to guide your eye the field).

Select Conclusions tab and enter summary findings you want to have in the conclusions section of the report.

Select the Sign button from the upper right ribbon.



Enter your password for your electronic signature and click sign, you will return to your worklist to select the next patient ready for your review.

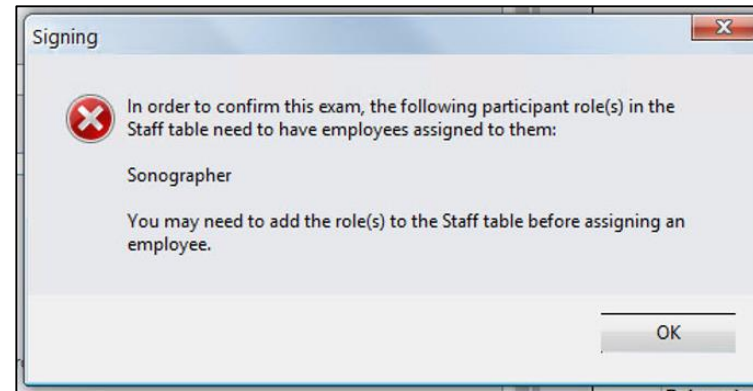
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As you complete the item it will drop off the list and when empty you can close and review the report and sign or use the sign button on this window.

Field Name	Description	Field Location
Image Quality	Required	Main Form
Height	Required	Main Form
Height (")	Input field for calculation of field 'Height'	Main Form

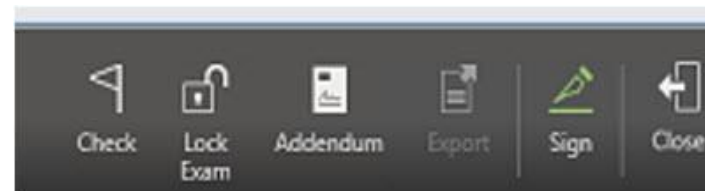
Stress Echo

Required Clinical Team Member is not listed on the Main Form under Staff you see this popup.



When complete select the sign button again from the Main Ribbon and complete the record.

Addendum: If a correction is needed, open the exam and select **Addendum** and enter the text that you need and sign the report again. The addended text will show at the top of the report.



Stress Only



Open/log into "Centricity Cardio Workflow",

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Examination | Reading Physician Worklist | Current User | Your organization



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Double click on Exam line to open Exam.

06/13/2018	12:50 PM	Ready For Review
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Main Form:

Patient Section - Confirm/update

Examination Verify **Exam Type** is correct in the Section. This controls the final report description.

Note: AUC is a required physician entry field.

Exam Detail: Confirm/update

Enter Indication/Diagnosis

Examination			
AUC	<input type="text"/>	▼	
Procedure Ordered	<input type="text" value="CV-STRESS_MMH"/>	▼	Facility Location <input type="text"/> ▼
Exam Type	<input type="text" value="EST"/>	▼	Proc. Components <input type="text"/> ▼
Procedure Status	<input type="text"/>	▼	Procedure Views <input type="text"/> ▼

Stress Only

Staff Section: Ensure you are listed as Reading Physician, if not change it.

All other fields should be completed from the Tech at this point:

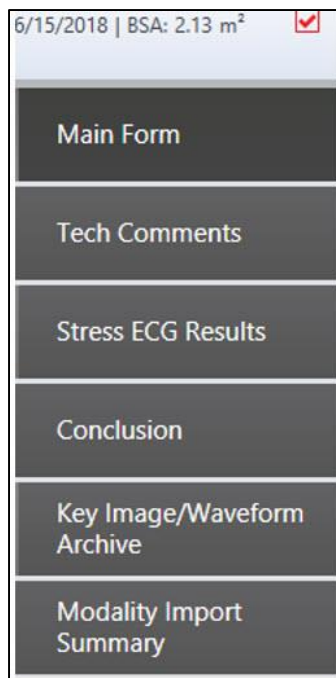
Stress Tech, Reading Physician, Stress Supervisor

Use the Type Ahead feature to find names due to large name dropdown lists.

All data entered is automatically saved within the report.

Tech will have entered all their data and you will see that in the report:

Patient Data including BP / HR / Rhythm / etc.



Tech Comments – If the tech needs to communicate something to you it will be in this area. This does not go to the final report, used only for internal communication.

Stress ECG Results: Data will be processed from the data entered at the Stress Cart itself and be available under this tab for review and to add/update the data that is present.

This data is dependent upon the Stress Tech/Supervisor to enter, if not the physician will need to fill in the blanks for the report.

Stress Only

Quick Report called "Base Report Template" has been applied by the tech, if not you can add it.



Historical reports that are in the system are available under the All Studies Icon.

Stress Report with ECG tracings are located under All Studies Button on the Main Ribbon.

It will be in the lower section of "Imported" reports

Stress ECG Folder will still be available for review as well.

Double click to open in PDF

Status	Exam Mode	Exam No.	Adm. No.	Creation Date	R	V	Confirmation Date	Name	Modality
▶	ECG	ECG-610	A-1829	03/30/2018 01:13 PM	1	1	03/30/2018 01:13 PM	Imported: PDF	CASE
▶	ECG	ECG-608	A-1829	03/30/2018 01:05 PM	1	1	03/30/2018 01:05 PM	Imported: PDF	CASE

Stress Data will be processed from the data entered at the Stress Cart itself and be available under this tab for review and to **review/add/update** the data that is present.

This data is dependent upon the Stress Tech/Supervisor to enter, if not the physician will need to fill in the blanks for the report.

The data in Case Impression and Case Conclusion is greyed out as this is a read only field of data typed into the Stress Cart. It will not be on the physician report, just for information.

Duke Treadmill Score for Exercise Stress should come from the cart

If it does not, or if the physician does not agree it can be updated in the section below. Then, it will reflect on the physician report as physician updated/calculated field.

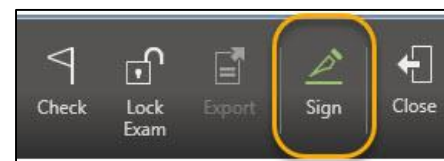
Stress Only

Read the report on the right side and click the sentence to make changes – clicking the sentence that needs to be corrected will automatically take you to the form page where that is to be changed (a blue box will appear to guide your eye the field).

Main Form	Conclusion
▶ Exam Info	Conclusions
Tech Comments	Recommendations
Measurements	Comparisons
▶ All Echo Forms	Overview
▶ Echo - Overview	Heart Rate
▶ Stress Echo	Previous Heart Rate
	Blood Pressure
	Previous Blood Pressure
	Previous RVEF
	Previous LVEF
	EF
	Previous EF
Key Image/Waveform Archive	Previous LV Mass
IAC	Previous LV Thickness

Select Conclusions tab and enter summary findings you want to have in the conclusions section of the report.

Select the Sign button from the upper right ribbon.



Enter your password for your electronic signature and click sign, you will return to your worklist to select the next patient ready for your review.

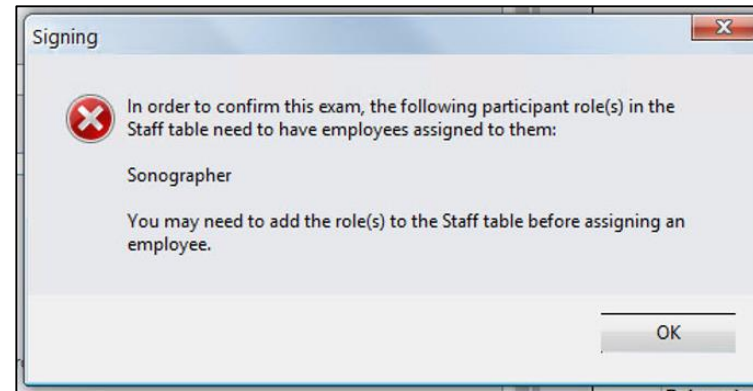
Required Fields: If you see this window, please fix the items that are required (orange fields). You can use the blue colored links to go directly to the field that needs to be addressed.

As you complete the item it will drop off the list and when empty you can close and review the report and sign or use the sign button on this window.

Field Name	Description	Field Location
Image Quality	Required	Main Form
Height	Required	Main Form
Height (*)	Input field for calculation of field 'Height'	Main Form

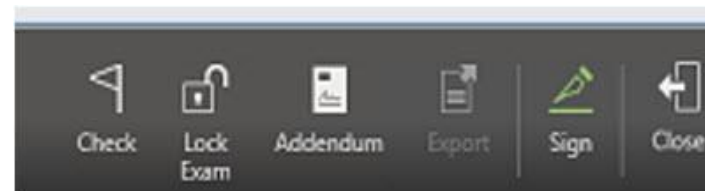
Stress Only

Required Clinical Team Member is not listed on the Main Form under Staff you see this popup.



When complete select the sign button again from the Main Ribbon and complete the record.

Addendum: If a correction is needed, open the exam and select **Addendum** and enter the text that you need and sign the report again. The addended text will show at the top of the report.



Nuclear Stress



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Physician Filters should be set as seen below:

Examination | Reading Physician Worklist | Current User | Your organization



You should see your patient with a status of Ready for Review.

Double click on Exam line to open Exam.

06/13/2018	12:50 PM	Ready For Review
------------	----------	------------------

The system will automatically open the image set on the other monitor.

Main Form:

Patient Section - Confirm/update

Examination Verify **Exam Type** is correct in the Section. This controls the final report description.

Note: AUC is a required physician entry field.

Exam Detail: Confirm/update

Enter Indication/Diagnosis

HOME

Echo

Stress Echo

Stress Only

Nuclear Stress

NIPV

Universal Viewer for
Cardiologist

Universal Viewer for
Non-Reporting Physicians
(PedEcho, Cath, CV Surgeons)

Printing Reports from
Centricity Cardio Workflow

TomTech

Reference

For Questions contact
210-575-0660

METHODIST HEALTHCARE

"Serving Humanity to Honor God"

www.SAHealth.com

Nuclear Stress

Staff Section: Ensure you are listed as Reading Physician, if not change it.

All other fields should be completed from the Tech at this point:

Nuclear Tech, Stress Tech, Reading Physician

Use the Type Ahead feature to find names due to large name dropdown lists.

All data entered is automatically saved within the report.

Tech will have entered all their data and you will see that in the report:

Patient Data including BP / HR / Rhythm / Imaging Data / Isotope dosing / timing etc.

The screenshot shows a form with two main sections: 'Examination' and 'Exam Details'. The 'Examination' section includes fields for AUC (orange bar), Indications/Diagnosis (text box), Procedure Ordered (text box), Facility Location (dropdown), Procedure Status (dropdown), and Anatomy (dropdown). The 'Exam Details' section includes fields for Exam Status (dropdown), Image Quality (orange bar), Baseline Rhythm (dropdown), Teaching Case (checkbox), Clinical Trial (dropdown), Consent (orange bar), and IAC (dropdown).

The screenshot shows a sidebar menu for the Nuclear Stress report. The menu items are: Main Form, Clinical History, Stress, Imaging Data, Conclusions, and Key Image/Waveform Archive. The 'Clinical History' item is highlighted with a right-pointing arrow.

Clinical History tab and Review/Enter/update data

Stress Data will be processed from the data entered at the Stress Cart itself and be available under this tab for review and to add/update the data that is present.

This data is dependent upon the Stress Tech/Supervisor to enter, if not the physician will need to fill in the blanks for the report.

Imaging Data

Most this information will be entered by the tech and you can review/update as needed

Select the **Perfusion** Section and complete your review and record your findings

Select the **LV Function** Section and complete your review and record your findings

Repeat with **Viability** and **MUGA** as needed

Nuclear Stress

Physician Required Fields:

Select the **Clinical Data** tab and Review/Enter/update any historical patient data as needed

Stress Report with ECG tracings are located under All Studies Button on the Main Ribbon.

It will be in the lower section of "Imported" reports

Stress ECG Folder will still be available for review as well.

Double click to open in PDF

Status	Exam Mode	Exam No.	Adm. No.	Creation Date	R	V	Confirmation Date	Name	Modality		
	ECG	ECG-610	A-1829	03/30/2018 01:13 PM	1	1	03/30/2018 01:13 PM	Imported: PDF	CASE		
	ECG	ECG-608	A-1829	03/30/2018 01:05 PM	1	1	03/30/2018 01:05 PM	Imported: PDF	CASE		

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This data is dependent upon the Stress Tech/Supervisor to enter, if not the physician will need to fill in the blanks for the report.

The data in Case Impression and Case Conclusion is greyed out as this is a read only field of data typed into the Stress Cart. It will not be on the physician report, just for information.

Duke Treadmill Score for Exercise Stress should come from the cart

If it does not, or if the physician does not agree it can be updated in the section below. Then, it will reflect on the physician report as physician updated/calculated field.

Clinical History > Clinical Data

History

CHEST PAIN STATUS

Chest Pain Status Reference Table

PROBABILITY OF CAD

Probability of CAD Reference Table

10y RISK PER ACC/AHA

TroponinLevel Troponin Level (2)

CAD Risk Factors

Chronic Kidney Disease ☐ Yes ☐ No Diabetes ☐ Yes ☐ No

HOME

Echo

Stress Echo

Stress Only

Nuclear Stress

NIPV

Universal Viewer for
Cardiologist

Universal Viewer for
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TomTech

Reference

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METHODIST HEALTHCARE

"Serving Humanity to Honor God"

www.SAHealth.com

Nuclear Stress

NUC
6/12/2018 | BSA: 1.78 m²
Texsan MOB

Quick Report + Transf

Main Form Conclusions

► Clinical History

Stress

► Imaging Data

Conclusions

Key Image/Waveform Archive

Summary
Conc

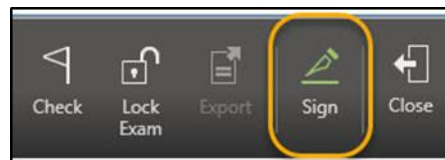
► ICD 10

☒ Risk SIHD

High risk (greater t)
1. Severe resting LV
2. Resting perfusion
3. Stress ECG finding
ST-segment elevatio
4. Severe stress-indu
5. Stress-induced pe
territories with abno
6. Stress-induced LV
7. Inducible wall mot
8. Wall motion abno
9. CAC score greater

Select **Conclusions** tab and enter summary findings you want to have in the conclusions section of the report.

Select the Sign button from the upper right ribbon.



Enter your password for your electronic signature and click sign, you will return to your worklist to select the next patient ready for your review.

Sign Report(s)

User Name: cfrankli

Password:

Sign as: Reading Physician

☐ Finalize f Reading Physician

Reports to be created and routed:

☒ MHS_Nuclear

☐ MHS NonInvasive Referral

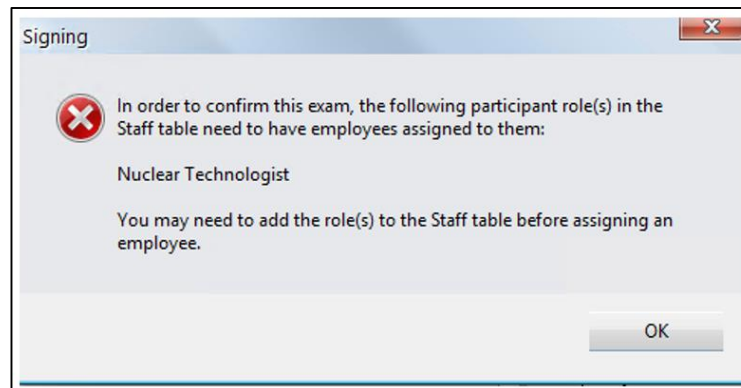
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Field Name	Description	Field Location
CHEST PAIN STATUS	Required	Clinical History > Clinical Data
10y RISK PER ACC/AHA	Required	Clinical History > Clinical Data
PROBABILITY OF CAD	Required	Clinical History > Clinical Data
Conclusions Summary	Required	Conclusions

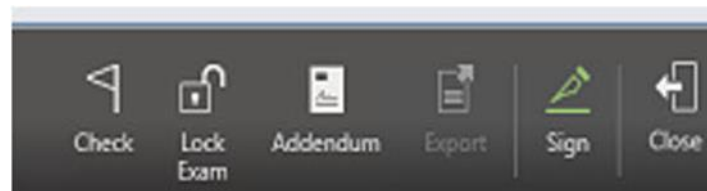
Nuclear Stress

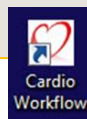
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06/13/2018 12:50 PM Ready For Review

The system will automatically open the image set on the other monitor.

Main Form:

Patient Section-Confirm/update

Examination Verify **Exam Type** is correct in the Section description.

Exam Detail: Confirm/update

NIPV

Staff Section: Ensure you are listed as Reading Physician, if not change it.

All other fields should be completed from the Tech at this point:

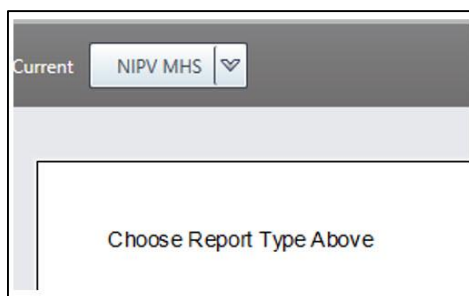
Sonographer, Stress Tech, Reading Physician

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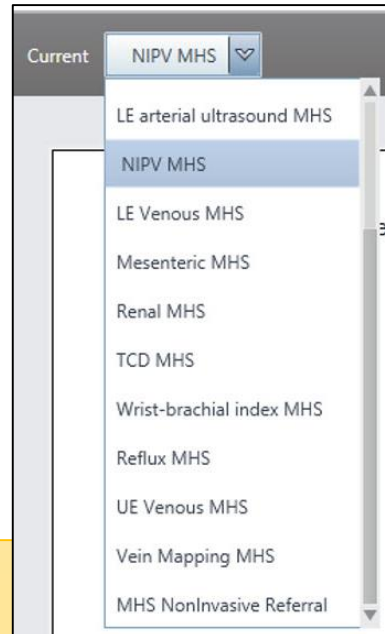
All data entered is automatically saved within the report.

Tech will have entered all their data and you will see that in the report:

Patient Data including BP / HR / Rhythm / etc.



NIPV will open with the report on the right side of the screen asking you to Choose Report Type Above-



Select the type of report you are reading as this will trigger the correct report

HOME

Echo

Stress Echo

Stress Only

Nuclear Stress

NIPV

Universal Viewer for
Cardiologist

Universal Viewer for
Non-Reporting Physicians
(PedEcho, Cath, CV Surgeons)

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METHODIST HEALTHCARE

"Serving Humanity to Honor God"

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NIPV

NIPV
6/18/2018
Inpatient

Main Form

Conclusions

▸ Neurovascular

▸ Arterial

▸ Visceral Vascular

▸ Venous

▸ Diagnostic

Key Image/Waveform
Archive

QA

Conclusions for the report selected Enter Indications / AUC / Diagnosis

Neurovascular Clinical Data History

Neurovascular (Carotid Data)

Arterial Vessel Information (Physiologic)

Visceral (aorta/renal/mesenteric)

Venous (history/indications/lower/upper/vein mapping)

Diagnostic (peripheral Lesions/grfts)

Measurements - All Measurements taken during the study are in this area.

Historical reports that in the system are available under the All Studies Icon



NIPV

Page 3 of 5

BACK

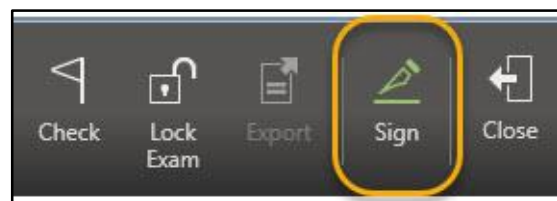
NEXT

Last updated: 7/25/2018

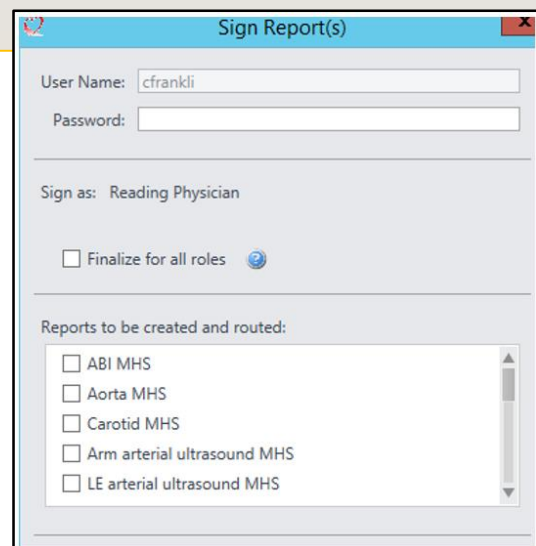
Read the report on the right side and click to make changes – clicking the sentence that needs to be corrected will automatically take you to the form page where that is changed (a blue box will appear to guide your eye to the field).

Select Conclusions tab and enter summary findings you want to have in the conclusions section of the report

Select the Sign button from the upper ribbon.



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Sign Report(s)

User Name: cfrankli

Password:

Sign as: Reading Physician

☐ Finalize for all roles

Reports to be created and routed:

- ☐ ABI MHS
- ☐ Aorta MHS
- ☐ Carotid MHS
- ☐ Arm arterial ultrasound MHS
- ☐ LE arterial ultrasound MHS

Enter your password for your electronic signature and click sign, you will return to your worklist to select the next patient ready for your review.

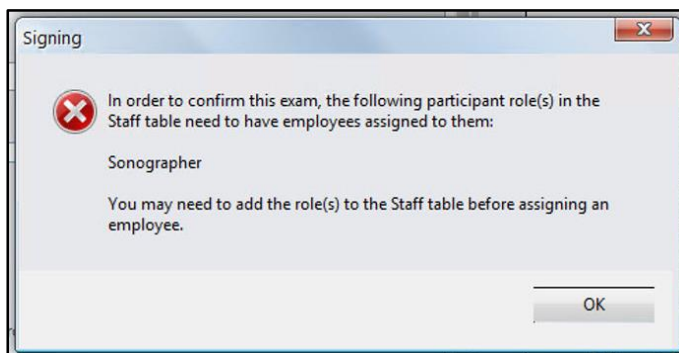
Required Fields: If you see this window, please fix the items that are required (orange fields). You can use the blue colored links to go directly to the field that needs to be addressed.




Field Name	Description	Field Location
Image Quality	Required	Main Form
Height	Required	Main Form
Height (")	Input field for calculation of field 'Height'	Main Form

As you complete the item it will drop off the list and when empty you can close and review the report and sign or use the sign button on this window.

Required Clinical Team Member is not listed on the Main Form under Staff you see this popup.



Signing

 In order to confirm this exam, the following participant role(s) in the Staff table need to have employees assigned to them:

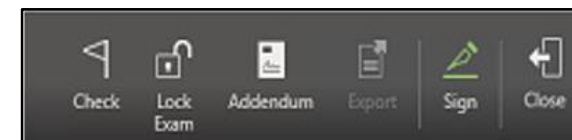
Sonographer

You may need to add the role(s) to the Staff table before assigning an employee.

OK

When complete select the sign button again from the Main Ribbon and complete the record.

Addendum: If a correction is needed, open the exam and select **Addendum** and enter the text that you need and sign the report again. The addended text will show at the top of the report.



HOME

Echo

Stress Echo

Stress Only

Nuclear Stress

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Universal Viewer for
Cardiologist

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Non-Reporting Physicians
(PedEcho, Cath, CV Surgeons)

Printing Reports from
Centricity Cardio Workflow

TomTech

Reference

For Questions contact
210-575-0660

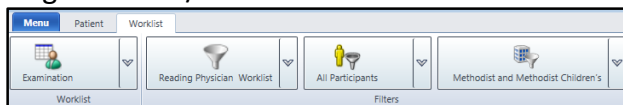
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CCW/UV Login and Display Report and Image

Login to CCW/Go to worklist



CCW will open to worklist by default showing patient studies assigned to you
Double click the study to view

In-use	Unregistered	Conflict	Exam Date	Exam Start	Exam Status	Pat. No.	Last Name	First Name	DOB	Gender	Exam Mode	Read Phys	Procedure description on study level
			05/08/2018	10:08 AM	Ready for Review	107123	TEST	BETH	05/08/1988 F	NIC	CHADLEY	Franklin, M.	
			05/08/2018	1:08 PM	Ready for Review	107123	TEST	BETH	05/08/1988 F	ECHO	CHADLEY	Franklin, M.	ECHO
			05/01/2018	12:11 PM	Ready for Review	100140756	DOUGLAS	DAVID	01/01/1940 M	NIPV	CHADLEY	Franklin, M.	CARDIO
			04/10/2018	8:53 AM	Ready for Review	1001980188	HUTTO	DAVID	04/25/1962 M	NIC	CHADLEY	Franklin, M.	10M SPCT Heart Rad/Stress Service
			02/08/2018	9:16 AM	Ready for Review	107123	TEST	BETH	05/08/1988 F	ECHO	CHADLEY	Franklin, M.	ECHO
			05/18/2018	12:08 PM	Ready for Review	100200709	GARCIA MARGARITA	05/18/1984 F	ECHO	CHADLEY	Franklin, M.	ECHO	
			05/17/2018	10:44 AM	Ready for Review	100172127	KOLDO	JOHN	01/28/1928 M	ECHO	CHADLEY	Franklin, M.	ECHO
			05/15/2018	10:53 PM	Ready for Review	10071238	TEST	CHAD	01/01/2000 M	ECHO	CHADLEY	Franklin, M.	10M SPCT Heart Stress/Rest Pharmacologic

The physician report will launch(CCW) as well as that patient's imaging study (UV/TomTec)

1. For Echo, the system will launch you direct to the Echo Main Viewer (Image-Com)

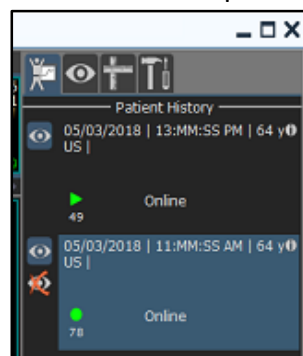
The Image-Com/UV-TomTec viewer is dedicated to Echo mode and will show only relevant prior Echo Studies in the Patient History on the right side of the screen

2.To review the Primary study associated with the study

- Default view is 4-Up
- Change to 1-Up by double clicking on a single frame
 - Return to 4-Up by double clicking the image frame again

3.Comparison mode is set by default

- Choose 2x1 hanging protocol (prior to loading any historical studies)
- Click any study on the patient history list on the right
- That study will load to the top in thumbnail view (left to right)
- In 2-up or 4-up view – drag and drop the thumbnail to a frame
- The comparison will now display in that frame



4. View Historical study in Full View (Primary View)

- Click on the Eyeball only in the patient history section on the right side of the screen
- A notification window will remind you this is not the study you have open in CCW for reporting – any measurements performed, etc. will not be sent to CCW Report
- Navigate as you would with the same onscreen controls as any other study in the Primary View

HOME

Echo

Stress Echo

Stress Only

Nuclear Stress

NIPV

Universal Viewer for
Cardiologist

Universal Viewer for
Non-Reporting Physicians
(PedEcho, Cath, CV Surgeons)

Printing Reports from
Centricity Cardio Workflow

TomTech

Reference

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Using Patient Tab / Search

Menu Patient Worklist

Quick Search

Patient No.
MPI

Last Name

First Name

Date of Birth

Exam Performed Date

Exam Planned Date

Extra Search Fields

Exam Mode

Admission No.

Exam No.

Search

If you click on patient in the top ribbon, then you can search for any patient in the system with a report. If you do not find your patient, please use How to Search the Images Only
Enter patient information that you know and click search

Select the patient

Patient No.	Last Name	First Name	Date of Birth	Gender	Linked Organizations
W10171	TEST	BB	05/01/2017	Male	Methodist and Methodist Children's
TST123	TEST	BETH	08/08/1988	Female	Methodist and Methodist Children's, Te
W1073	TEST	BLUE	01/01/1950	Male	Methodist and Methodist Children's
W33	TEST	BRANDEE	09/26/1978	Female	Methodist and Methodist Children's, N
W4088	TEST	BRICE	01/01/1956	Male	Methodist and Methodist Children's

The patient will open showing all patient's studies in CCW

Double click the study to view

The physician report will launch(CCW) as well as that patient's imaging study (UV/TomTec)

TEST, BRANDEE 9/26/1978 W33

Exam Log Details History Allergy Infection Laboratory Medication Phone Log Risk Factor Observations

Last Name TEST

First Name BRANDEE

Middle Name

Date of Birth 9/26/1978

Gender Female

Type	Date	Mode	Number	Order	Organization	Comment
Study	02/18/2016	W000002240	Methodist and N (Inpatient)			

How to View / Print Confirmed (Historical) Reports

If you click on patient in the top ribbon, then you can search for any patient in the system with a report.
If you do not find your patient, please use How to Search the Images Only

Enter patient information that you know and click search

The screenshot shows the 'Patient Select' window. It has a search form with the following fields: Patient No. (with a dropdown menu), Last Name, First Name, Date of Birth, Gender, and Linked Organizations. There are also checkboxes for 'New', 'Edit', and 'Delete'. A 'Search' button is located at the bottom right of the form.

Patient No.	Last Name	First Name	Date of Birth	Gender	Linked Organizations
TEST1234	TEST	Chad	01/01/2000	Male	Methodist and Methodist Children's
TEST	TEST	Chadley	10/10/2000	Male	Methodist and Methodist Children's

The Patient View will open showing all patient's studies in CCW

Double click the study to view

The physician report will launch(CCW) as well as that patient's imaging study (UV/TomTec)

HOME

Echo

Stress Echo

Stress Only

Nuclear Stress

NIPV

Universal Viewer for
Cardiologist

Universal Viewer for
Non-Reporting Physicians
(PedEcho, Cath, CV Surgeons)

Printing Reports from
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TomTech

Reference

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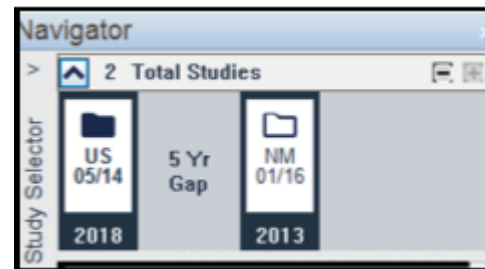
www.SAHealth.com

View All Patient Studies

Click to open Navigator on the Upper Left Ribbon
In the upper left corner, you will now see a list of all studies known for this patient



Not just the Echo (US) but all modalities
This Icon is available in UV or TomTec Base Viewers



Click once on a prior to study and wait for it to load the thumbnails down the left side of the screen
(note Image-Com/TomTec is still in the background)



HOME

Echo

Stress Echo

Stress Only

Nuclear Stress

NIPV

Universal Viewer for
Cardiologist

Universal Viewer for
Non-Reporting Physicians
(PedEcho, Cath, CV Surgeons)

Printing Reports from
Centricity Cardio Workflow

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Reference

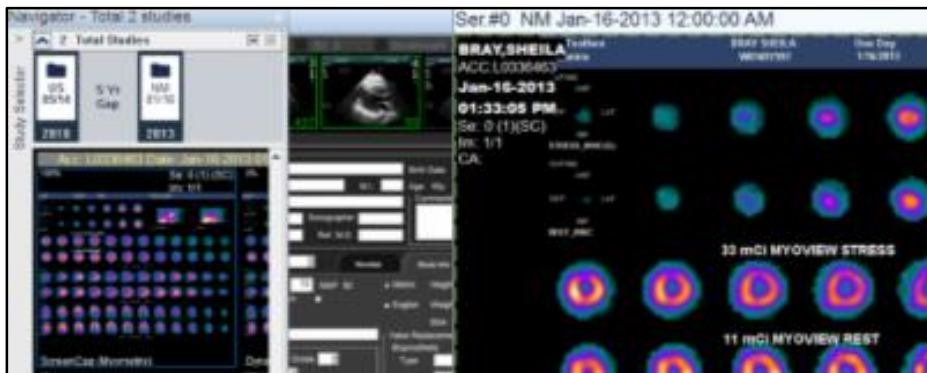
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View All Patient Studies, page 2



Double Click the first thumbnail and it will open in a window on top of the UV-TomTec Viewer in background and new window you can expand or move to your other monitor.

You can make this new window full screen/drag it to another monitor/ or flip back and forth if you only have a single monitor

Use the forward/back buttons in that window move through the study.



Close the open windows and return to Image-com/TomTec and click the eyeball on the study that matches the one you are reading and complete the report in CCW.

HOME

Echo

Stress Echo

Stress Only

Nuclear Stress

NIPV

Universal Viewer for
Cardiologist

Universal Viewer for
Non-Reporting Physicians
(PedEcho, Cath, CV Surgeons)

Printing Reports from
Centricity Cardio Workflow

TomTech

Reference

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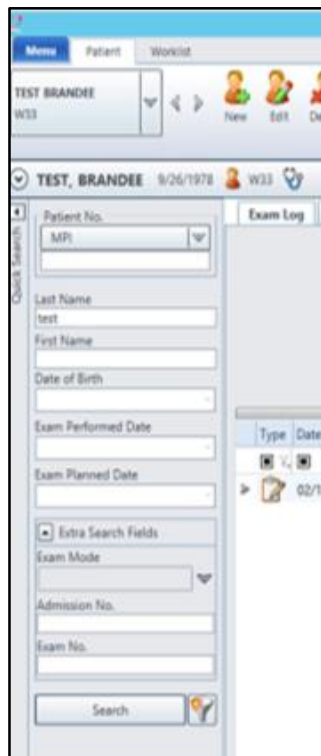
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How to Search the Imaging System Directly

From the CCW Patient Tab use the Search for Patient Images Button to search for any patient in the imaging system with or without a report in CCW

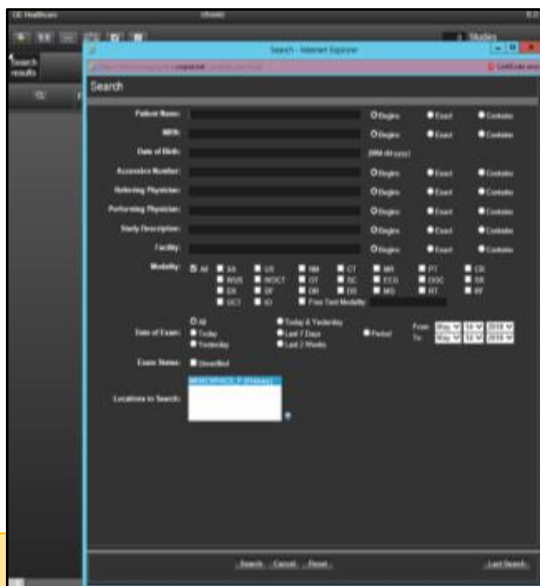


It will open the navigator, such that, you can select search criteria by selecting the Magnifying Glass

Name is entered [Lastname]^[Firstname]

If Last name only used with DOB or MRN it will not require the special character.

If the search is too broad you will need to narrow the search criteria



Example: All images for 10 years for last name Smith will result in **Query too General Error**.

Search for 10 years for Smith with DOB of 10-20-50 will likely result in finding the patient's records.

Last updated: 7/25/2018

UV for Cardiologist
Page 6 of 7

BACK

NEXT

How to move through a study in UV / TomTec

Many of the Icons are the same in both viewers, but may be in different locations depending on your view

Universal Viewer



| Prior Page | Active Frame Controls | Next page | Toggle Direction | Speed

| Prior | Pause | Next |

UV Multipage View additional thumbnail per active window



| Prior Series | Auto Scroll | Next Series | View FOV | Sync | Swap Series

TomTec Viewer



Pixel 1:1 | View | Prior Page | Next page | Active Image controls by Frame | Speed | Synch | Border Control



| First | Prior | Pause | Next | Last |

[HOME](#)[Echo](#)[Stress Echo](#)[Stress Only](#)[Nuclear Stress](#)[NIPV](#)[Universal Viewer for
Cardiologist](#)[Universal Viewer for
Non-Reporting Physicians
\(PedEcho, Cath, CV Surgeons\)](#)[Printing Reports from
Centricity Cardio Workflow](#)[TomTech](#)[Reference](#)[For Questions contact
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Universal Viewer Non-Reporting Physicians

Task	Steps
Launch Centricity Universal Viewer	<ol style="list-style-type: none">1) Open Microsoft Internet Explorer to your Centricity Universal Viewer web site.2) Answer Yes to security questions.3) If necessary, click the pop-up bar near the Internet Explorer bar to allow ActiveX controls
Log in	<ol style="list-style-type: none">1) When the login screen appears, enter your case sensitive user name and password.2) Click Login or press Enter.
Quick Search on the Study List	<ol style="list-style-type: none">1) On the far left of the Study List window, select Patient Name, MRN /Patient ID, or Accession # from the drop down list.2) Enter the search criterion. NOTE Search for MRN/Patient ID and Accession # by entering an exact match, or for Patient Name using the "Begins" criterion by entering at least the first two characters of the patient's last name.3) Press Enter or click Search  to execute the search.
Search for a Study	<ul style="list-style-type: none">• Click a Study List tab.• Click Search  on the toolbar.• Enter the criteria for your search and click Search.
Save a New Study List	<ol style="list-style-type: none">1) Right-click the Search Results tab and select Save Search As from the menu.2) Enter a unique name for the new tab.3) Click OK.
Open a Study	Click anywhere in the study row. The study displays in the viewer.
Rearrange Displayed Series or Display a Series Not Loaded	<ul style="list-style-type: none">• To arrange series within the Navigator, click and drag the thumbnail to a different location in the Navigator.• Use the Series Selector to display the series in the Active Series window.

Universal Viewer Non-Reporting Physicians

Task	Steps
Page through Series	<p>Click a series to make it active and then:</p> <ul style="list-style-type: none"> • Scroll using the mouse wheel. • Hold down the left mouse button and drag the mouse up or down. • Click the Up and Down Arrow keys or Page Up/Page Down keys.
Edit Layout Grid	<ol style="list-style-type: none"> 1) Click the Edit Grid icon  on the toolbar. 2) Select a grid layout from the drop-down menu.
Adjust the Window/Level (W/L)	<ul style="list-style-type: none"> • Click  W/L on the toolbar. In the image, click the left mouse button and drag the pointer up or down. • Click the Present Window item and select one of the available definitions for this study. • Right-click anywhere in the image to display a floating menu.
Access Other Features	<ul style="list-style-type: none"> • Use the <i>Main Menu</i> or toolbar. • Right-click to display the floating menu. • Hover over any button or icon to display the tooltip that defines its function.
Access Online Help	<ul style="list-style-type: none"> • From the Study List window, click Help, or • From the Viewer window, select Display Help Page from the Main Menu Help option.
Close the Study	<ul style="list-style-type: none"> • Click Done  in the toolbar to perform the default operations and close the study. • To override the default settings for Done without changing it, click the down arrow next to Done to display the drop-down menu and make a selection.
End Your Session	<ul style="list-style-type: none"> • Click the logout icon from the Study List  .

Universal Viewer Non- Reporting Physicians

UV Ribbon Icons

To Access Commands from the Study List Context Menu

1. In the Study List, position the mouse in the row of the desired study and right-click. This displays the context menu. The commands available depend upon your system configuration and user account privileges.

Note:

Any commands you select in the menu applies to all selected studies. To perform the menu action on multiple studies, select the check boxes to the left of each study, and then right-click to see the menu.

2. Click the menu item to execute the command.

Study List Commands

Note

Some of the commands may not be available, depending upon your configuration.

Command	Description
Select All	Select all studies on the page.
De-select All	Clear all selections.
View Selected Studies	Load images in the selected study (or studies) into the Image Viewer.
View Selected Studies for Conference	Open studies with saved presentation states and layout information for presenting studies at conferences.
Compare Selected Studies	Loads the selected studies into the Image Viewer for comparison, two at a time.
All Studies for Selected MRN	Displays all the studies with the same Medical Record Number (MRN), which is useful for comparing or viewing all studies for a particular patient. If more than one MRN is selected, all the studies for all the selected MRNs are displayed.
View or Enter Report/Note	View the existing note(s) or report(s) attached to each selected study. From the report/note view, authorized users can add a note or report to the study.
Show Series List	Display a list of series contained in the study. Includes number of images, modality, and other information.
Show Thumbnails	Displays the thumbnails contained in each series.
View Audit Trail	Display full details about who accessed the study, when, and what operations they performed on the study.

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UV Non-Reporting Phys

Page 3 of 3

BACK

NEXT

HOME

Echo

Stress Echo

Stress Only

Nuclear Stress

NIPV

Universal Viewer for
Cardiologist

Universal Viewer for
Non-Reporting Physicians
(PedEcho, Cath, CV Surgeons)

Printing Reports from
Centricity Cardio Workflow

TomTech

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Printing Reports from CCW

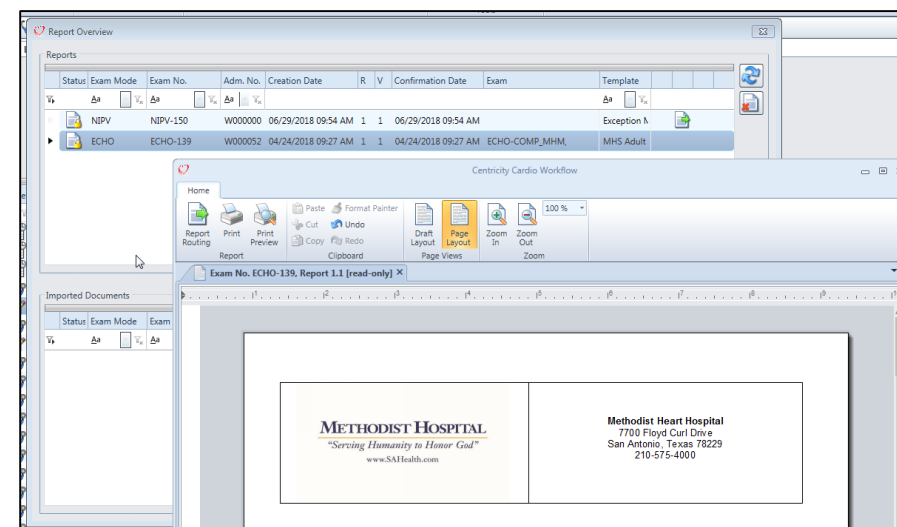


Open/log into "Centricity Cardio Workflow",
Switch to **Patient** Tab and enter patient information that you know and click search

Type	Date	Mode	Number	Order	Organization	Comment
CATH					Methodist and A	
ECHO					Methodist and A	
ECHO					Methodist and A	ECHO_MHM
NIPV	06/29/2018		NIPV-172		Methodist and A	
TEST	06/27/2018		TEST062618		Methodist and A (Inpat)	
NUC	06/25/2018		NM-288		Methodist and A	

To print a completed report, or search for
imported reports click the **All Studies** Tab.

Double click the report you wish to print
and use the print button



HOME

Echo

Stress Echo

Stress Only

Nuclear Stress

NIPV

Universal Viewer for
Cardiologist

Universal Viewer for
Non-Reporting Physicians
(PedEcho, Cath, CV Surgeons)

Printing Reports from
Centricity Cardio Workflow

TomTech

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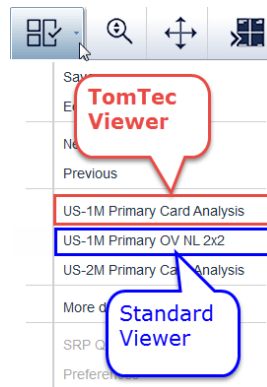
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Identifying TomTec Viewer

TomTec advanced tool viewer is the standard viewer for clinicians. TomTec viewer is identified by the layout of the thumbnails. In TomTec the thumbnails appear on top. In the standard viewer the thumbnails appear on the left

TomTec Viewer



Standard Viewer



You can change your viewer in the Hanging Protocols section of the toolbar.

TomTec

- US-1M Primary Card Analysis (1 Monitor)
- US- 2M Primary Card Analysis (2 Monitors)

Standard Viewer

- US-1M Primary OV NL 2x2

HOME

Echo

Stress Echo

Stress Only

Nuclear Stress

NIPV

Universal Viewer for
Cardiologist

Universal Viewer for
Non-Reporting Physicians
(PedEcho, Cath, CV Surgeons)

Printing Reports from
Centricity Cardio Workflow

TomTech

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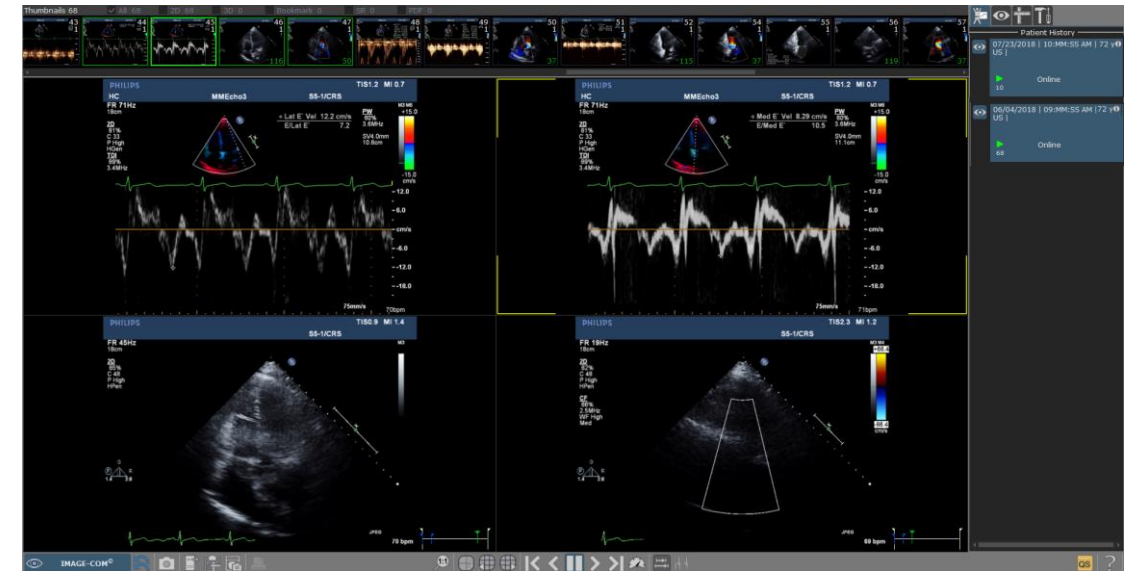
Side by Side Comparison

If the patient has further studies in the database (secondary studies) they will be shown in the patient history tab on the right side of the screen.

- Click on a secondary study in the Patient History section in order to see thumbnail previews

- Images of a secondary study are surrounded with light blue frames, including study date and time

- Drag and drop one of the thumbnails into the workspace in order to compare images of the primary study with images of the secondary study



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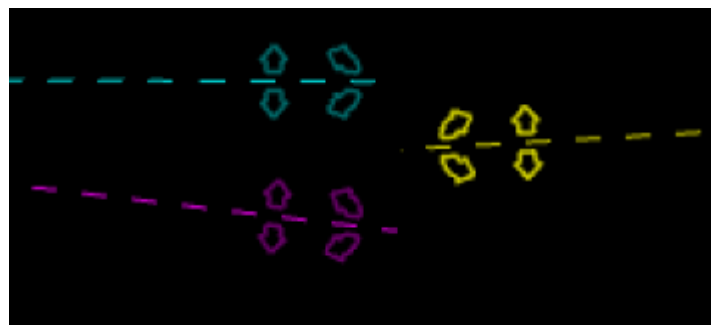
Review of 3D/4D Objects

-3D/4D objects can be identified in the preview by the green (or grey) "3D" symbol




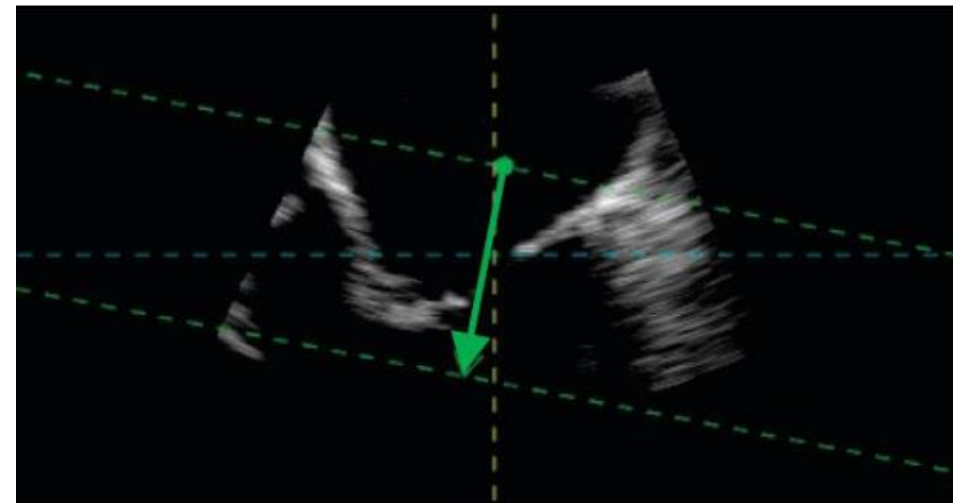
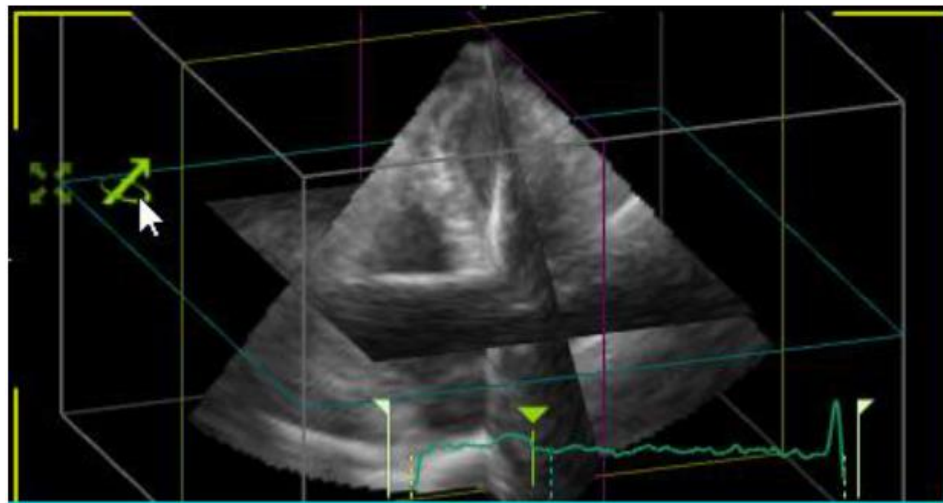
-Drag and drop the 3D object into the workspace and adjust the "Lines of Intersection" LOI to adapt the MPR views

_ Use the center point navigation "+" to move LOIs on the same tile simultaneously



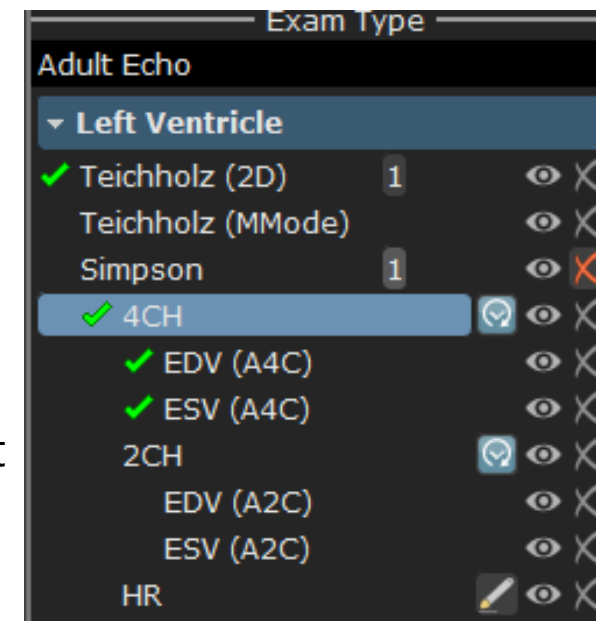
Use D'Art for Specific Tissue Reconstruction

- The D'Art allows to visualize any 3D structure in a very intuitive way with just two clicks 
- Select D'Art and simply set two points to define a region of interest and a viewing direction
- Change the length of the D'Art arrow
- It will automatically reflect less or more tissue



Cardiac Measurement Examples- Simpson Biplane

- Select the measurement tab (ruler) above the Patient History pane on the right side of the screen
- Select the Exam type from the drop down menu to Echo
- Select "Left Ventricle" drop down
- Select "Simpson"
- Choose the End Diastolic frame at an apical 4CH view and select "EDV (A4C)"



Cardiac Measurement Examples- Simpson Biplane

-Place the first dot in the image at the mitral annulus and set points along the endocardial wall by using left mouse clicks.

-Place the last dot at the opposite mitral annulus position with a double click in order to close the contour.

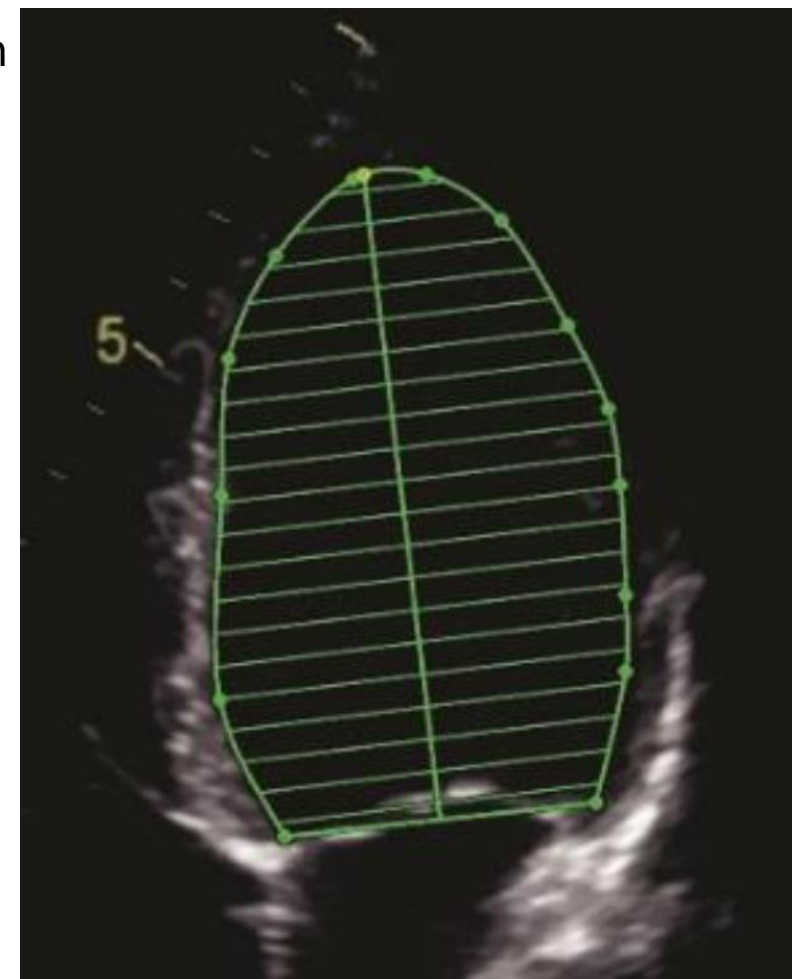
-Move your mouse to choose a proper position of the rotation axis

-Repeat the procedure with "ESV (A4C)"

-Continue with the 2CH view.

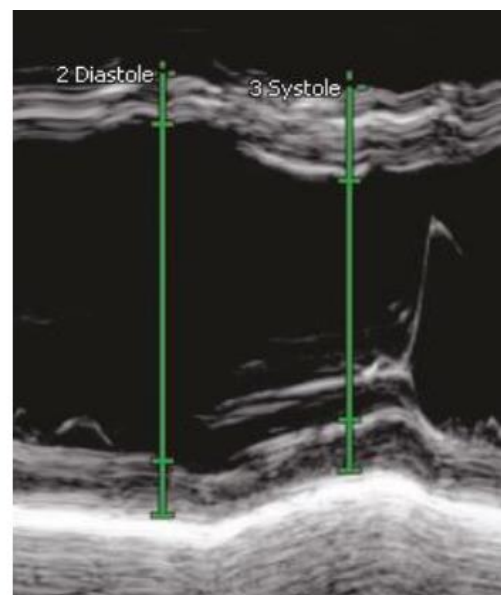
-Results can be reviewed by moving the mouse over the opened package in the measurement menu

-Cancel the procedure at any time by pressing "ESC" on the keyboard



Cardiac Measurement Examples- Teichholz/M-Mode

- Select the measurement tab
- Select Exam type "Echo"
- Select the package "Teichholz MMode"
- Select "Diastole" and set the first point on the IVS (Inter Ventricular Septum) in the Right Ventricle
- Place the other points until you reach the outer border of the Posterior Wall
- Repeat the procedure with "Systole"

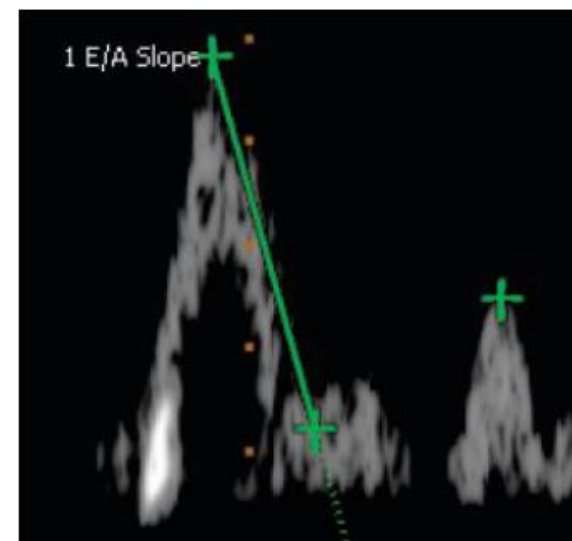
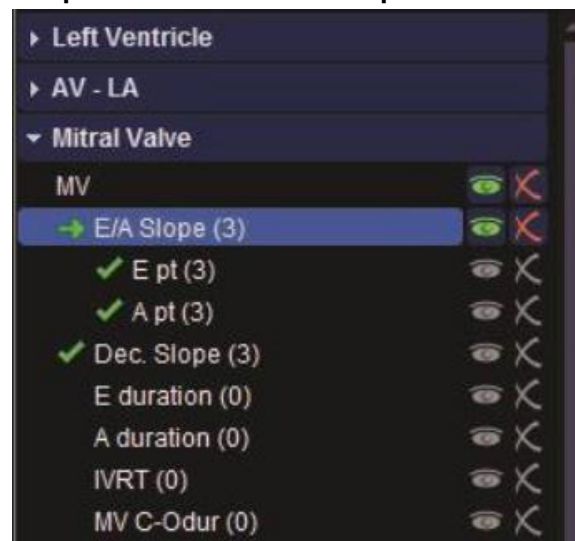


TIP:

Once measurements are complete hover your mouse over Diastole to view measurement result pane

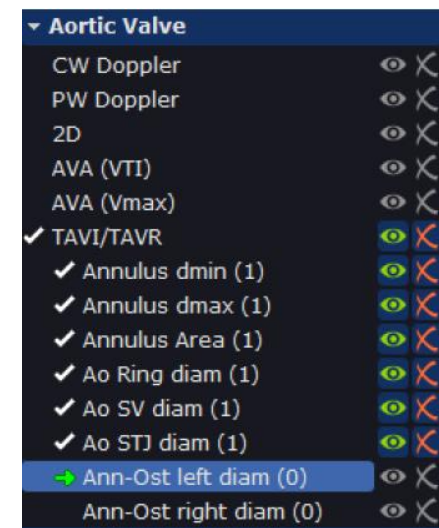
Cardiac Measurement Examples-Mitral Valve Inflow PW Doppler

- Select the Exam type ("Echo")
- Select the group ("Mitral Valve")
- Select the package ("MV")
- Select the measurement "E/A Slope"
- Place the first point on the E Peak of the MV Inflow and drag the Deceleration Slope to the right position.
- Click a second time to confirm the measurement.
- Place the third point on the A peak of the MV Inflow

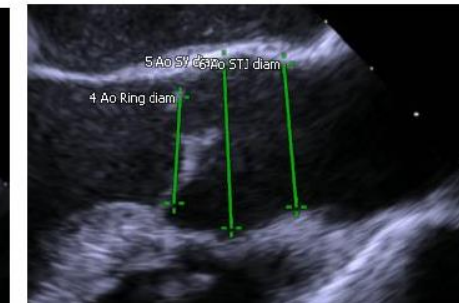


Cardiac Measurement Examples-TAVI/TAVR Measurements

- Select the Exam type "Echo"
- Select the group "Aortic Valve"
- Select the package "TAVI/TAVR"
- The aortic Min and Max annulus dimension area are measured in the SAX.
- Click on "Annulus dmin" – make a left mouse click for the first point and a second to finish the distance measurement.
- Click on "Annulus dmax" and do the same for the maximum distance; afterwards click to "Annulus area"
- The aortic ring diameter, aortic sinus Valsalva diameter, aorta sinotubular junction diameter are measured in the LAX.
- Aortic root measurements should be made at end-diastole.



TAVI/TAVR	
Annulus dmin	26 mm
Annulus dmax	29 mm
Annulus dmean	27 mm
Annulus Area	5.79 cm ²
Annulus Perimeter	86 mm
Annulus d(area)	27 mm
Ao Ring diam	16 mm
Ao SV diam	25 mm
Ao STJ diam	22 mm



TIP: To restart or redo measurement click on the red "X" next to the desired measurement

Worksheet

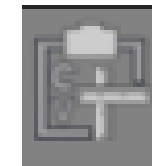
- Select the Launch Worksheet button (bottom right of screen)
- If measurements have been performed multiple times, select the method that should be exported by using the drop down list (Avg, First, Last, Min, Max)



Method	Result
Last	0.72 m/s
Avg	
First	
Last	
Min	
Max	

Select Average Value

- Delete measurements by choosing the desired delete criteria marked with a red "X". You can delete a selected measurement an entire column or row
- Once you complete your worksheet click the Export Measurements to Report icon to load measurements to your report



Quality Seal Light

Check your measurement data for completeness following your Standards and Guidelines









A quality seal is presented on the bottom right of the screen as a visual clue for worksheet completeness status

- Green: No missing measurements
- Yellow: At least one empty recommended field
- Red: At least one empty required field
- Yellow exclamation mark/frame: Empty recommended field
- Red exclamation mark/frame: Empty required field
















Tools









Tools tab offers tools for placing labels within a dataset. Tools can be used to highlight interesting details & to provide quick orientation for the user.

Description	Button	Icon
Click with your left mouse into the image or cine loop to insert free text on one <u>selected</u> frame	Annotation (selected frame only)	
Click with your left mouse into the image or cine loop to insert free text on all available frames	Annotation	
Insert an arrow at one <u>selected</u> frame of a cine loop.	Arrow (selected frame only)	
Insert an arrow at <u>for all</u> frames of a cine loop	Arrow	
Click two times with your left mouse into the image or cine loop to insert a black area on one selected frame	Anonymize (selected frame only)	
Click two times with your left mouse into the image or cine loop to insert a black area on all available frames	Anonymize	
Remove the last modified Annotations of the selected cine loop or image	Delete Last Modification	
Remove all Annotations of the selected cine loop or image	Delete All Modifications	

Appendix








Description	Button	Icon
Pins/releases an image / a clip in its tile. The concerned tile is not affected by paging through a study	Pinned / unpinned content	 
Displays the dataset as originally displayed in the beginning of each workflow step.	Reset	
Displays the selected view of a dataset in full size/reduces the size of the current shown view(s) of a dataset within its tile	Magnify/ Demagnify	 
Brightness lightens or darkens tissue and colors equally. Contrast adjusts the difference between light and dark tissue as well as light and dark colors.	Brightness contrast /level window	 
Flips horizontally  and vertically  , rotates 90° clockwise 	Flip and rotate 2D images	
Excises an interesting slice out of the 3d dataset	D´art	
Separates an object of interest from the background and/or unwanted data (noise).	Threshold	

Appendix



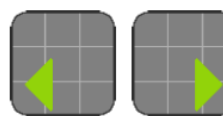







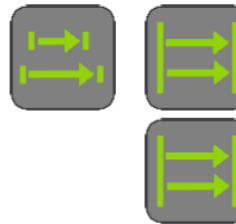
Determines the appearance of a rendered volume. A value of 10 creates a solid surface. By increasing this value the transparency of the volume is increased too	Transparency	
Rotates a selected MPR and the spatial arrangement of MPRs around its vertical/horizontal axes.	Orbit	
Rotates a selected or the spatial arrangement of MPRs around the axis perpendicular to the screen.	Rotation	
Relocates a content of a tile.	Pan	
Zooms an image in/out.	Zoom	
Moves a selected cut plane in parallel slices backward and forward.	Slice	
Displays 3 LAX MPRs (2Ch, 3Ch and 4Ch) and one SAX MPR. The level of the SAX MPR can be modified by LOI navigation.	Show/Hide View Planes	
Displays the dataset as originally displayed in the beginning of each workflow step	Reset	

[HOME](#)[Echo](#)[Stress Echo](#)[Stress Only](#)[Nuclear Stress](#)[NIPV](#)[Universal Viewer for
Cardiologist](#)[Universal Viewer for
Non-Reporting Physicians
\(PedEcho, Cath, CV Surgeons\)](#)[Printing Reports from
Centricity Cardio Workflow](#)[TomTech](#)[Reference](#)[For Questions contact
210-575-0660](#)

Appendix


Available only if the measurement tab is selected, allows the user to move the position of the measurement values in the diagnostic area in one of the available tile corners	Next Result position	
Open the worksheet of the selected study. Different colors are enabled Yellow, Red, Green represents different states from the quality seal check: Green (correct), Yellow (minor warning), Red (major warning).	Worksheet	
Launch the TOMTEC Reporting Module of the selected study (available if licensed for ultrasound modality in case of TOMTEC Server-Client environment)	Reporting	
Shows all information about the version of the product and allows the user to get access to the pdf version of the user manual and to all available documentations	About	
Used in order to perform changes on all available user settings	Settings	
Only one of the following button is available depending on the scenario. Exit is available for call up scenarios and closes the application; Back to Study List is shown in case of TOMTEC Server Client environments and closes the module in order to	Exit	
	Back to Study List	

Appendix

Toggles the size of the displayed datasets between showing them in original pixel size and showing them in maximal size within the particular tiling mode.	Display pixels 1:1	
Shows the relative applied layout on the diagnostic area. It shall be possible to manage the following layouts from a dedicated dropdown list (rows, columns): {from 1x1 to 4x6}. Default layouts: 2x2 (US), 1x1 (XA, IVUS, IVOCT/OCT), 3x4 (NM). One additional layout is available for XA Biplane.	Layout	
Previous Page, Next Page. It shall show images back and forward by taking into account the applied layout	Paging Navigation	
First Frame  , Previous Frame  , Play  , Pause  , Next Frame  , Last Frame 		
Applies globally a relative increasing or decreasing playback rate by using a dedicated percentage value slide bar (range [10,100] %; 10% step increment).	Playback speed	
Free, Start, Aligned synchronization. Shows the relative applied synchronization method from a list of different behaviors. The feature allows the user to manage loop synchronization between all multi frame images shown in the current workspace. Possibilities are: Free (no synchronization), Start (all clips will start simultaneously), Aligned (all clips will be managed in order to start and end the loop together)	Synchronization	

Structured Reporting Reference

The following articles were utilized as reference material for developing the structured reports. They are provided as reference for you to review at your leisure.

You can view full text articles by opening HCA Library on your SSO  and typing the name of the article in Discover search field.

Echocardiogram

Guidelines for the Echocardiographic Assessment of the Right Heart in Adults: A Report from the American Society of Echocardiography Lawrence G. Rudski, MD, FASE, et al.

Journal of the American Society of Echocardiography, 2010-07-01, Volume 23, Issue 7, Pages 685-713, Copyright © 2010

Recommendations on the Echocardiographic Assessment of Aortic Valve Stenosis: A Focused Update from the European Association of Cardiovascular Imaging and the American Society of Echocardiography Helmut Baumgartner, MD, FESC, et al.

Journal of the American Society of Echocardiography, 2017-04-01, Volume 30, Issue 4, Pages 372-392, Copyright © 2017 The Authors

Recommendations for the Evaluation of Left Ventricular Diastolic Function by Echocardiography: An Update from the American Society of Echocardiography and the European Association of Cardiovascular Imaging Sherif F. Nagueh, Chair, MD, FASE, et al.

Journal of the American Society of Echocardiography, 2016-04-01, Volume 29, Issue 4, Pages 277-314, Copyright © 2016 American Society of Echocardiography

The Clinical Use of Stress Echocardiography in Non-Ischaemic Heart Disease: Recommendations from the European Association of Cardiovascular Imaging and the American Society of Echocardiography Lancellotti Patrizio , Pellikka Patricia , et al

Journal of the American Society of Echocardiography, 2017-02-01, Volume 30, Issue 2, Pages 101-138, Copyright © 2016 European Society of Cardiology

Structured Reporting Reference

Nuclear Cardiology

ACC/AATS/AHA/ASE/ASNC/SCAI/SCCT/STS 2017 Appropriate Use Criteria for Coronary Revascularization in Patients With Stable Ischemic Heart Disease Manesh R. Patel, MD, FACC, FAHA, FSCAI, Chair, et al.

JACC (Journal of the American College of Cardiology), 2017-05-02, Volume 69, Issue 17, Pages 2212-2241, Copyright © 2017 American College of Cardiology Foundation

ACCF/AHA/ASE/ASNC/HFSA/HRS/SCAI/SCCT/SCMR/STS 2013 Multimodality Appropriate Use Criteria for the Detection and Risk Assessment of Stable Ischemic Heart Disease Michael J. Wolk, MD, MACC, Chair, et al.

Journal of Cardiac Failure, 2014-02-01, Volume 20, Issue 2, Pages 65-90, Copyright © 2014 American College of Cardiology Foundation

Nuclear Cardiology Reporting: Leaving an Impression Edwin Wu, MD. and Thomas A Holly, MD

Journal of Nuclear Cardiology 05 June 2018

ASNC Practice Points: 99m Technetium-Pyrophosphate Imaging for Transthyretin Cardiac Amyloidosis Sharmila Dorbala, MD, et al.

American Society of Nuclear Cardiology

Reporting Nuclear Cardiology Studies: Is the cup half-full or half-empty? Neha Yadav, MD and Rami Doukky, MD, MSc, FASNC

Journal of Nuclear Cardiology, 2018; 25:995-8

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Stress Echo

Stress Only

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NIPV

Universal Viewer for
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Universal Viewer for
Non-Reporting Physicians
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Printing Reports from
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Reference

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www.SAHealth.com

Structured Reporting Reference

Determining post-test risk in a national sample of stress nuclear myocardial perfusion imaging reports: Implications for natural language processing tools Andrew E. Levy, MD, et al.

Journal of Nuclear Cardiology 25 April 2018

Improved compliance with reporting standards: A retrospective analysis of Intersocietal Accreditation Commission Nuclear Cardiology Laboratories P. Tim Maddux, MD, et al.

American Society of Nuclear Cardiology, 12 October 2016

Estimating the Likelihood of Significant Coronary Artery Disease David B. Pryor, MD, et al.

The American Journal of Medicine, November 1983, Vol 75

Last updated: 7/25/2018

References
Page 3 of 3

BACK