

ACUSON Juniper Ultrasound System

Measurement Configuration 2.0 SW Release



Objectives

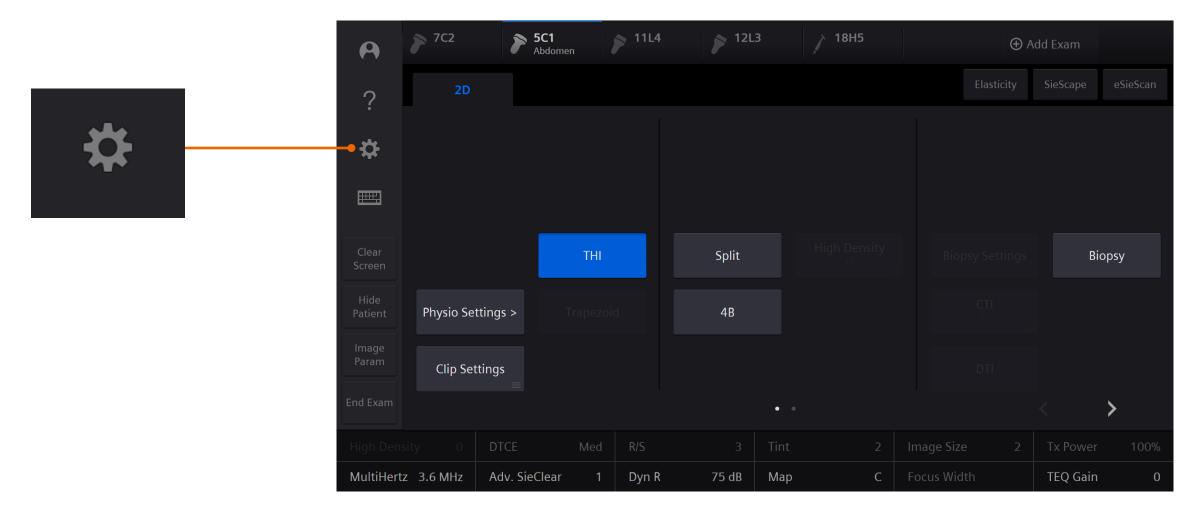


- Explain measurement configuration access and homepage layout
- Review the General icon
- Analyze the Exam Specific icon layout
- Discuss Configuration
 - Touch Screen
 - Left Panel
 - Edit Label
 - Tables and Formula
- Examine patient report



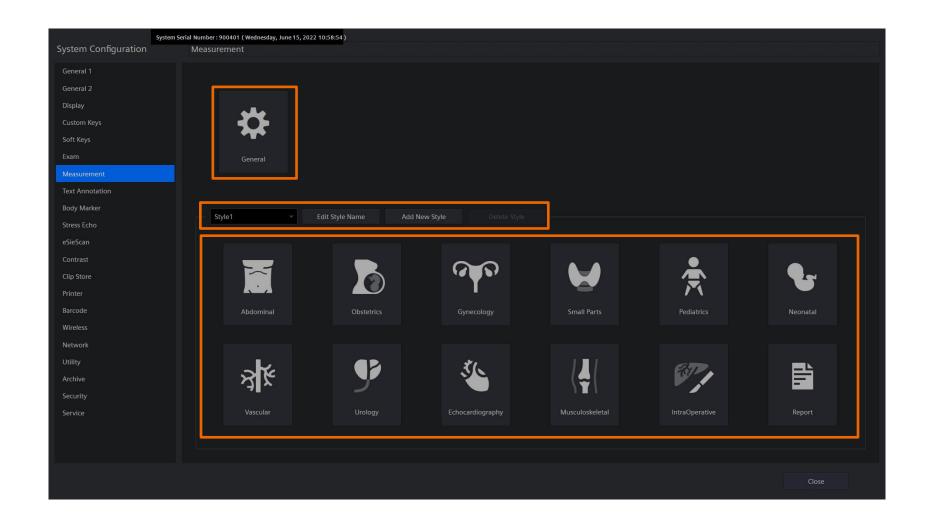
Measurement configuration access





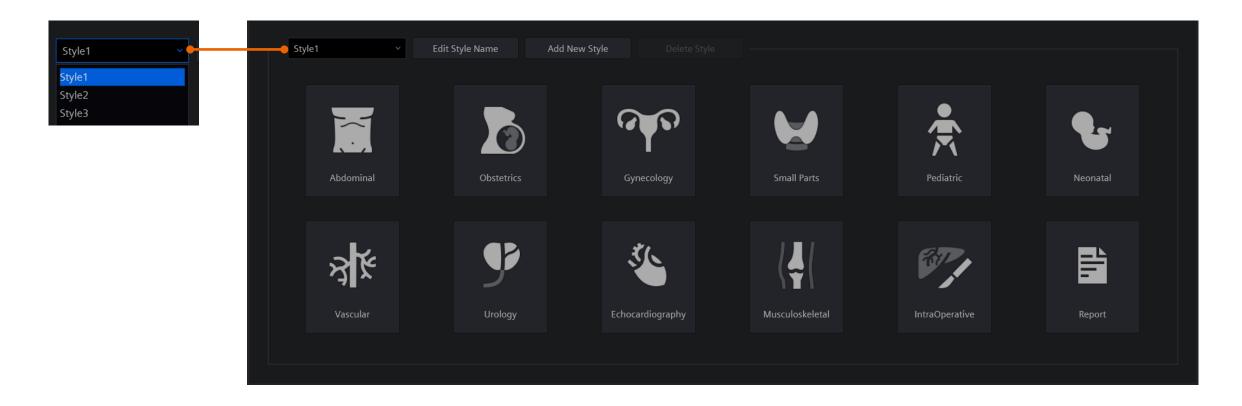
Measurement configuration home page





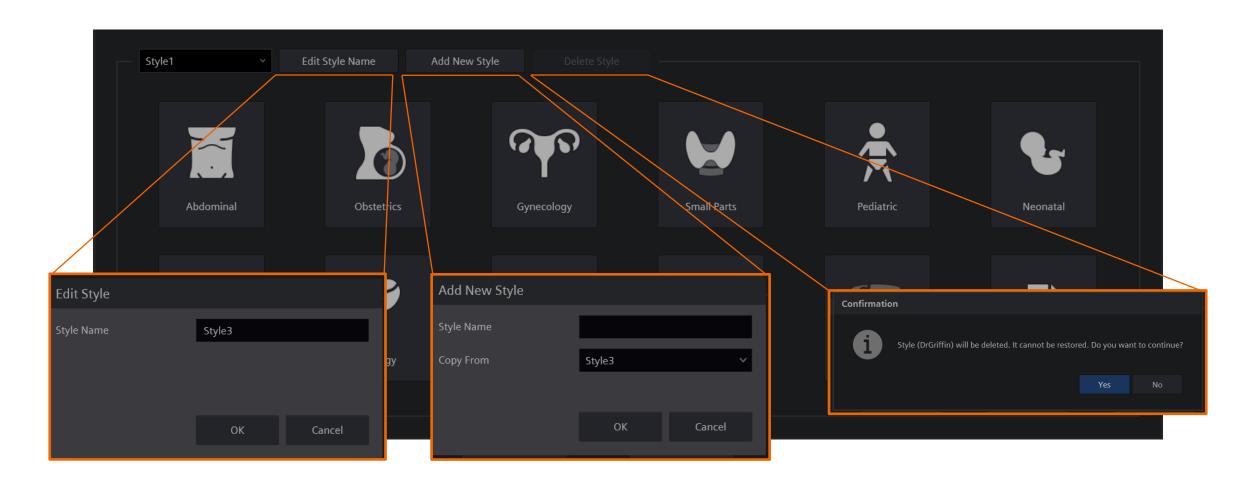
Measurement options Styles





Measurement options Styles – Edit, Add, Delete





Objectives



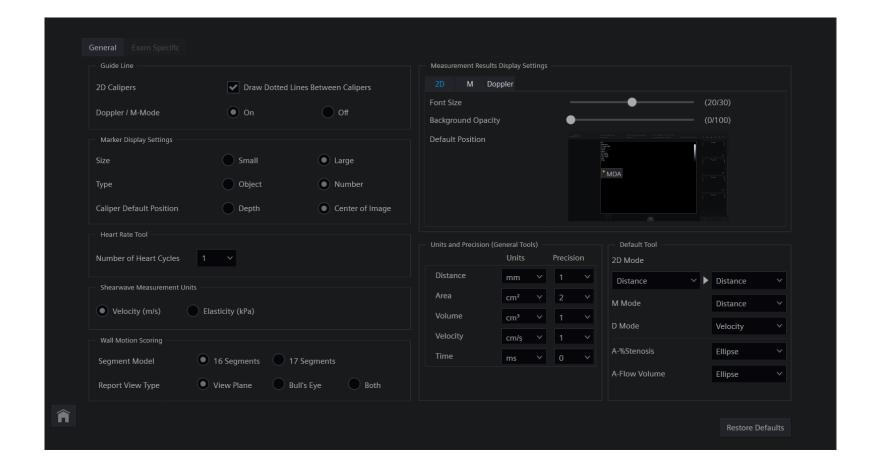
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Measurement tab General icon







General icon System-wide settings



System-wide settings for 2D, M-mode, and Doppler

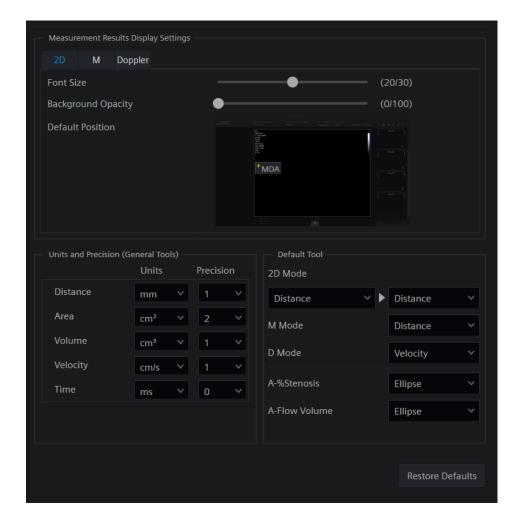
- Font size
- Background Opacity of MDA



- Units and Precision General Tools
- Set default measurement type for distance, M-mode, D-mode, etc.

Variable settings between modes

Position of MDA



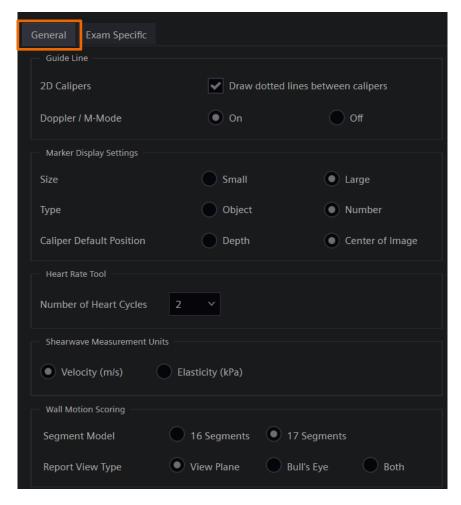
General icon General options tab



- Marker Display Settings
 - Size small / large



- Type object / number
- Caliper Default Position center / depth
- Guide Line for Doppler / M-mode and On / Off
- Heart Rate Tool settings (heart cycle options 1-5)
- Shear wave Measurement Units
- Wall Motion Scoring settings for cardiac



General icon

Exam Specific options tab - Obstetrics



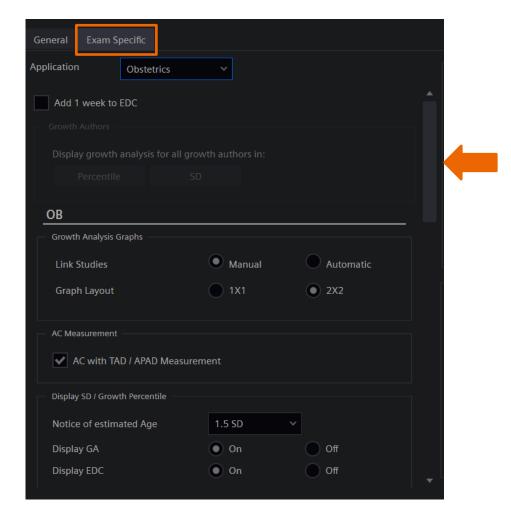
Separate customizable options for each obstetrical application:

- OB
- Early OB
- Advanced OB

Measurement and display parameters

- Standard Deviation
- Display GA / EDC onscreen
- Graph layout
- BPD measurement markers
- HC and AC display settings

Auto OB On / Off default selection



General icon



Exam Specific options tab - Echocardiography

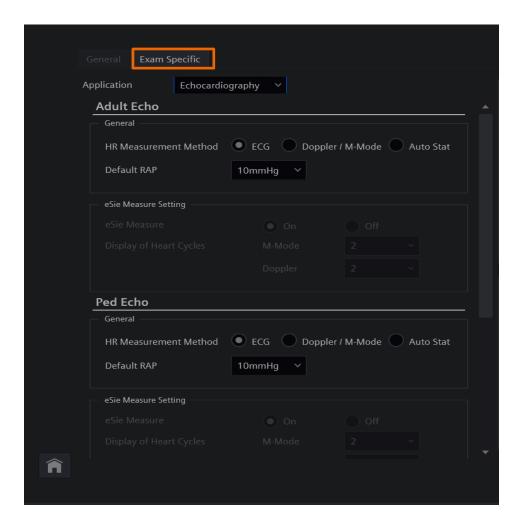
Separate customizable options for each cardiac application:

- Adult Echo
- Ped Echo
- Neo Echo

Heart rate measurement method

- ECG
- Doppler / M-mode
- Auto Stat

Default RAP setting (right arterial pressure) eSie Measure Settings

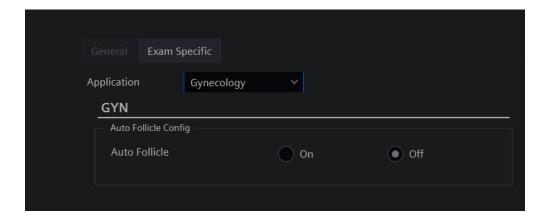


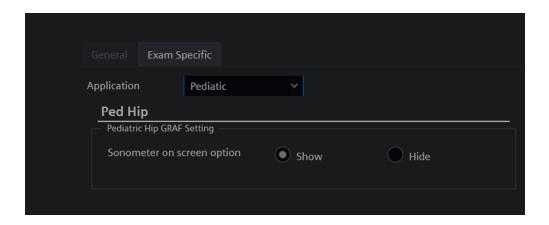
General icon Exam Specific options tab

SIEMENS ... lealthineers

Gynecology application default setting for Auto Follicle On / Off

Pediatric Hip application default setting for Sonometer display onscreen On / Off





General icon Exam Specific options tab



Applications without Exam Specific options:

- Abdominal
- Small parts
- Neonatal
- Vascular
- Urology
- Musculoskeletal (MSK)
- Intraoperative



Objectives

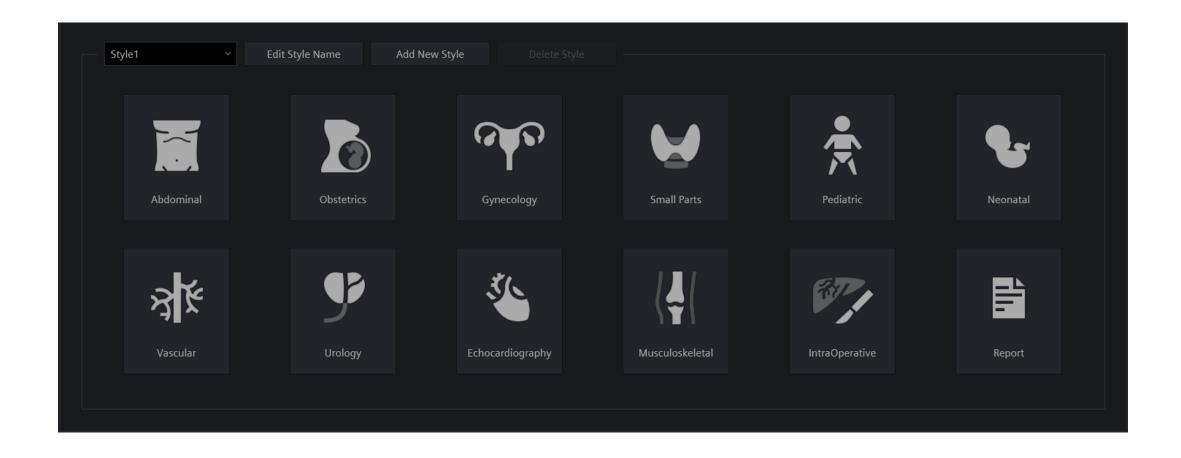


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Exam Specific icons

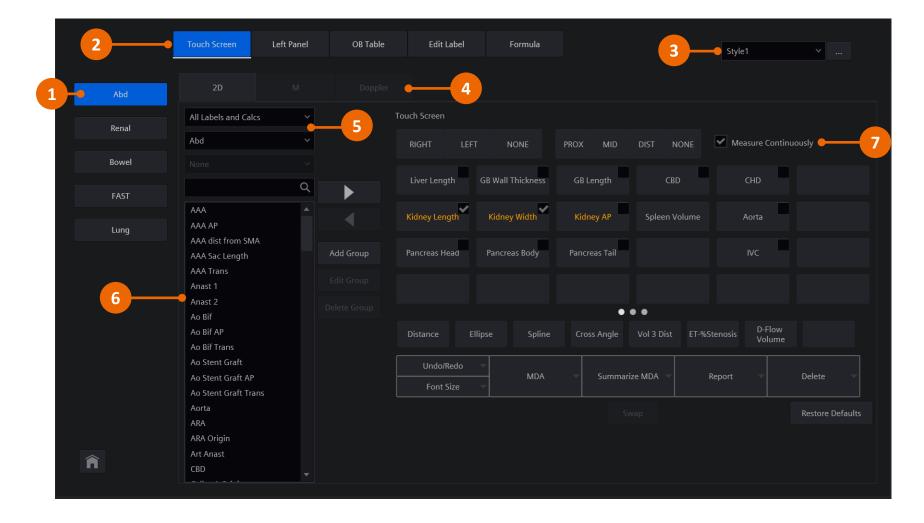




Exam specific icons Overview



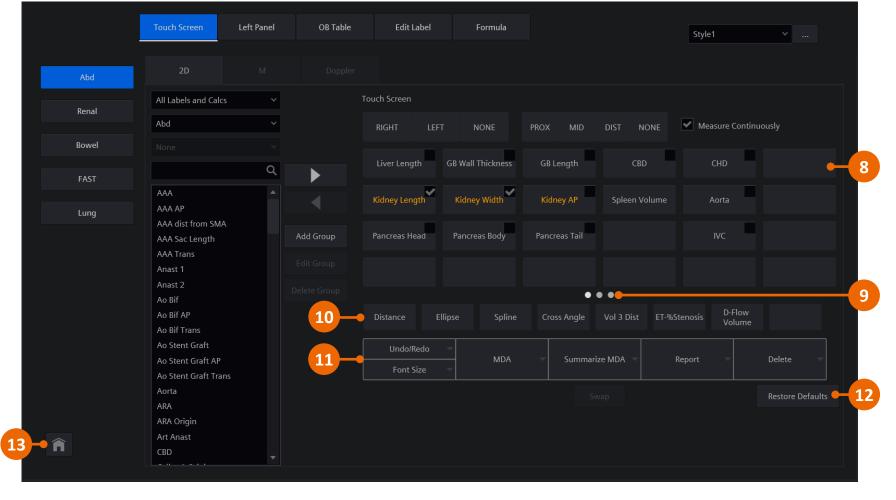




Exam specific icons Overview – continued

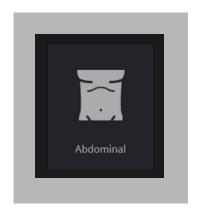


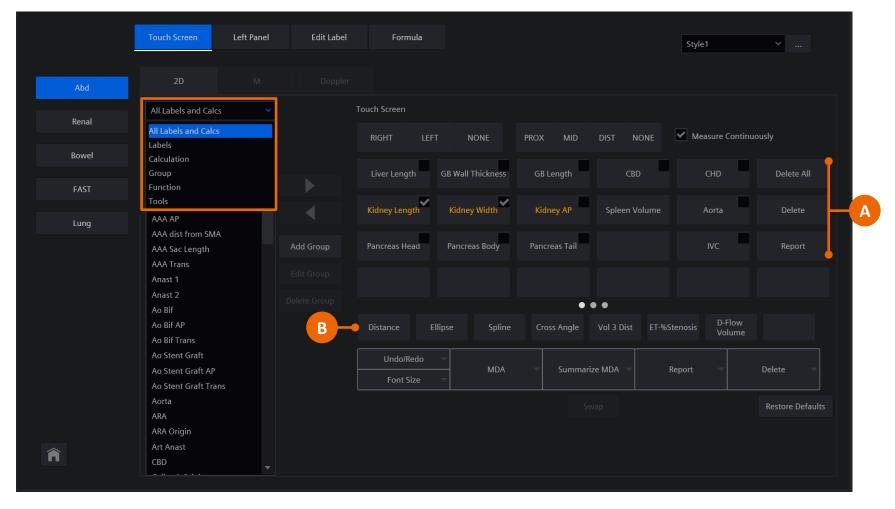




Exam specific icon drop-down menu options



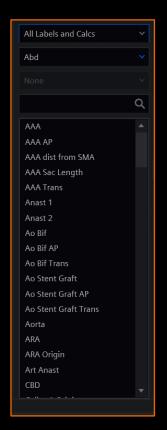


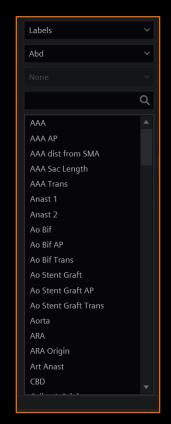


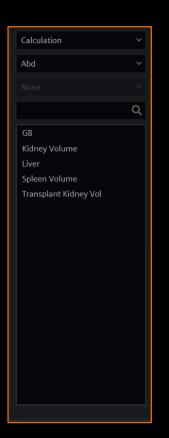
Exam specific icon drop-down menu options

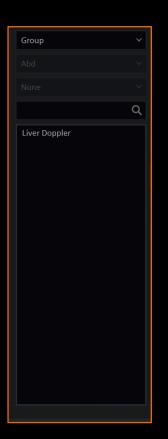


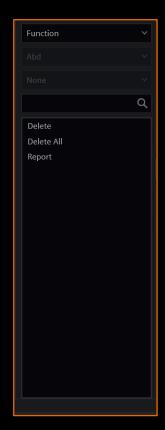


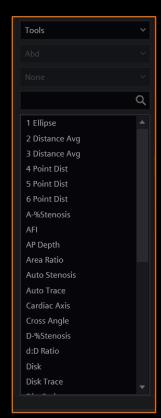






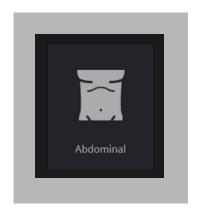


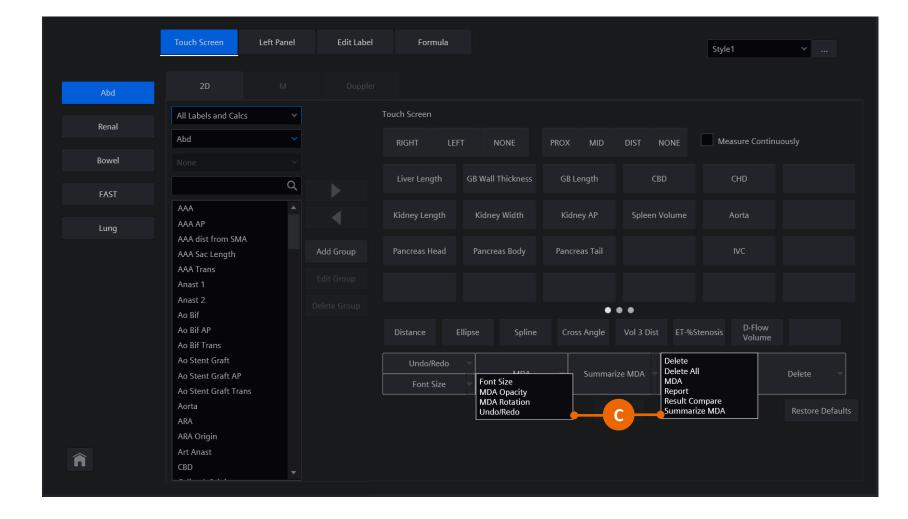




Exam specific icon Rotary dial / soft key options







Objectives

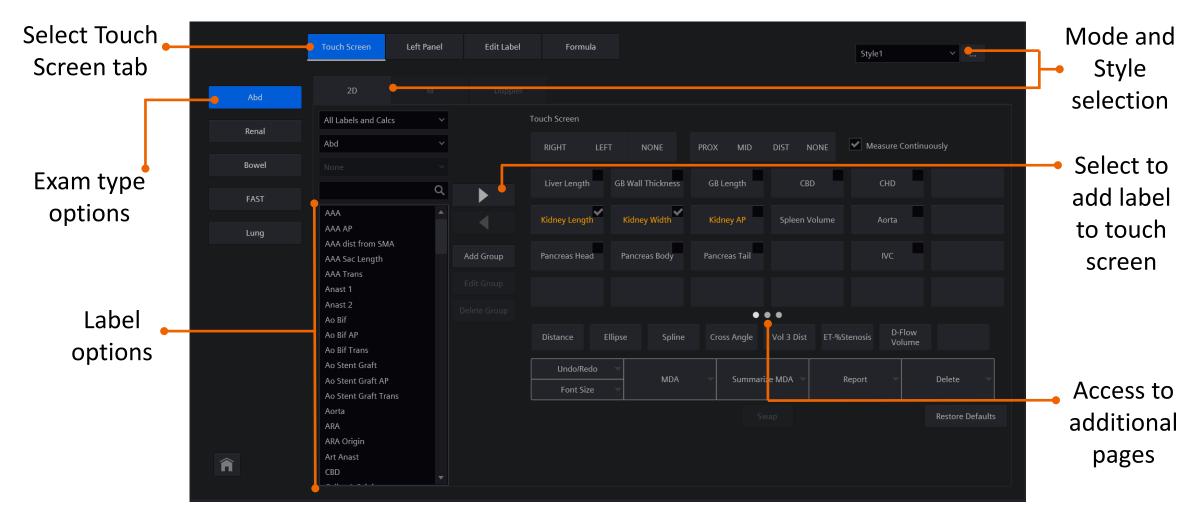


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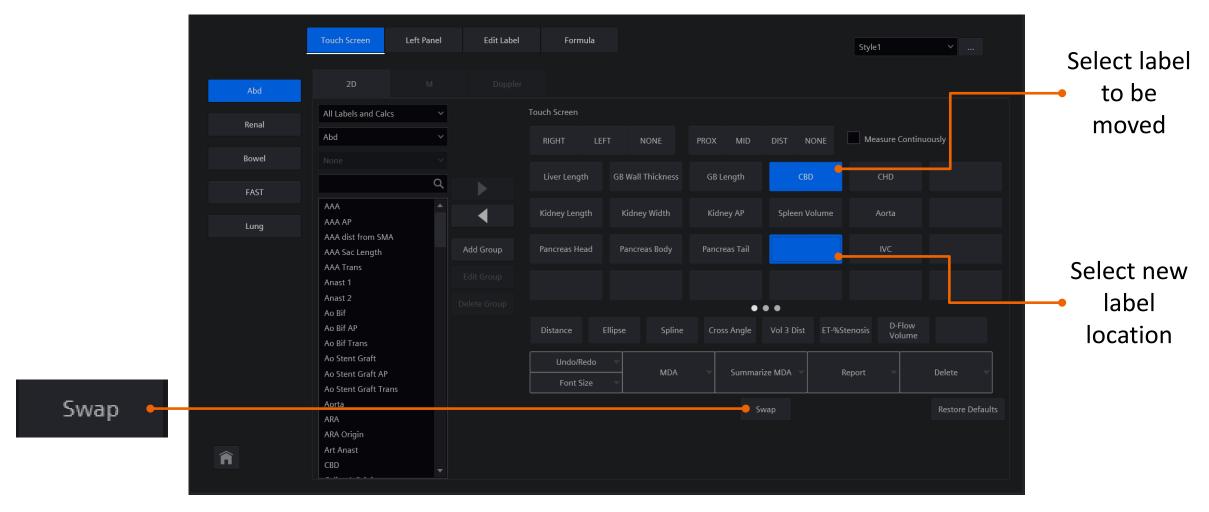
Configuration Touch Screen





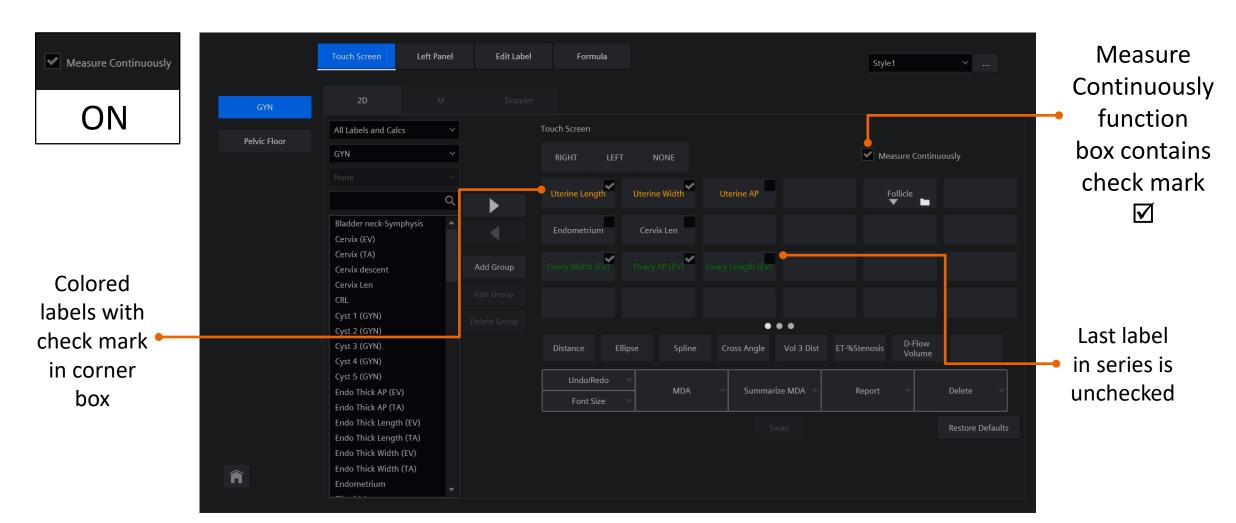
Configuration Label Swap





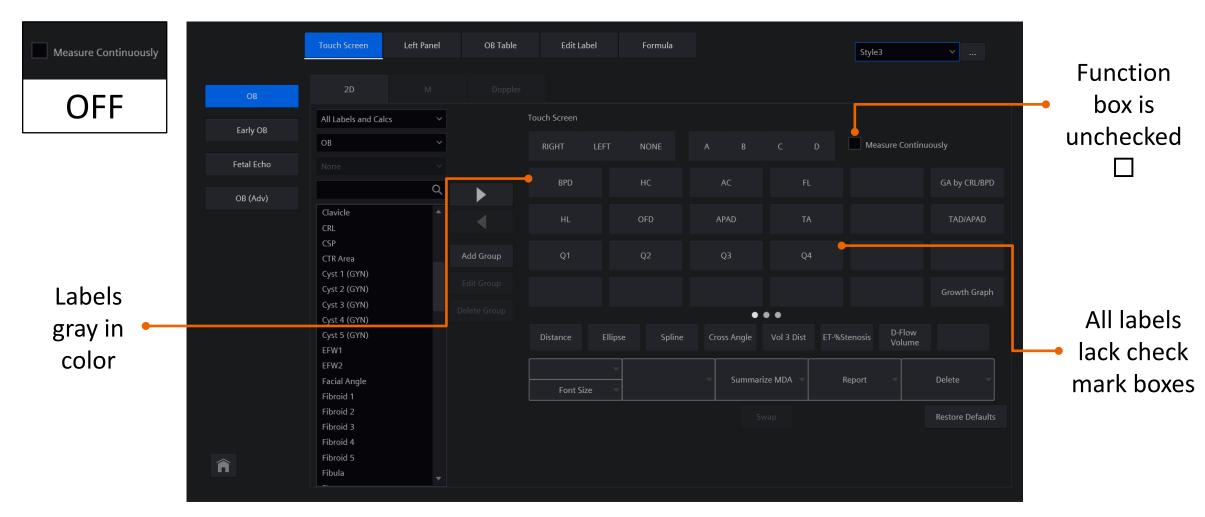
Configuration Measure Continuously



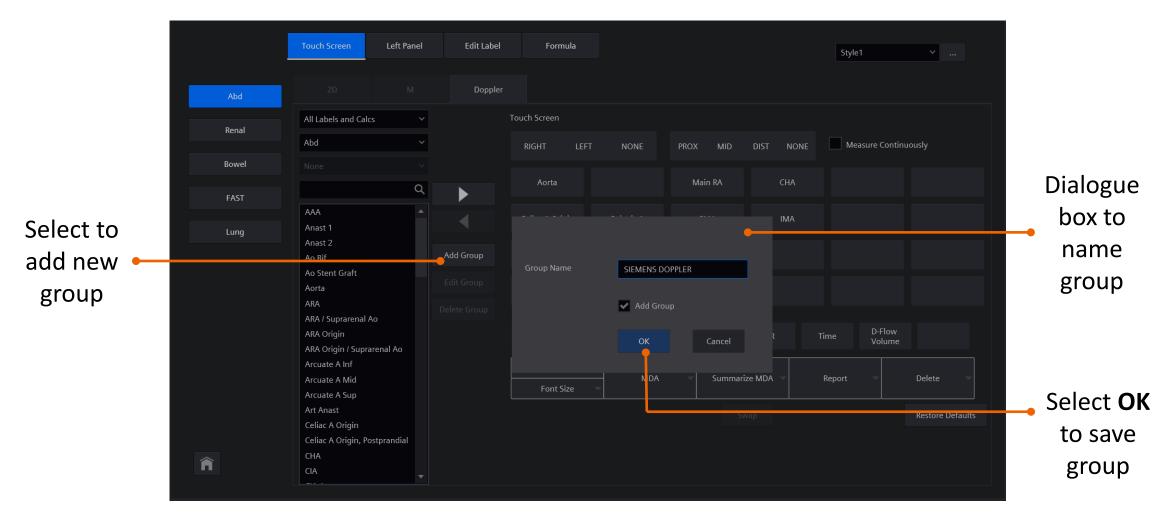


Configuration Measure Continuously

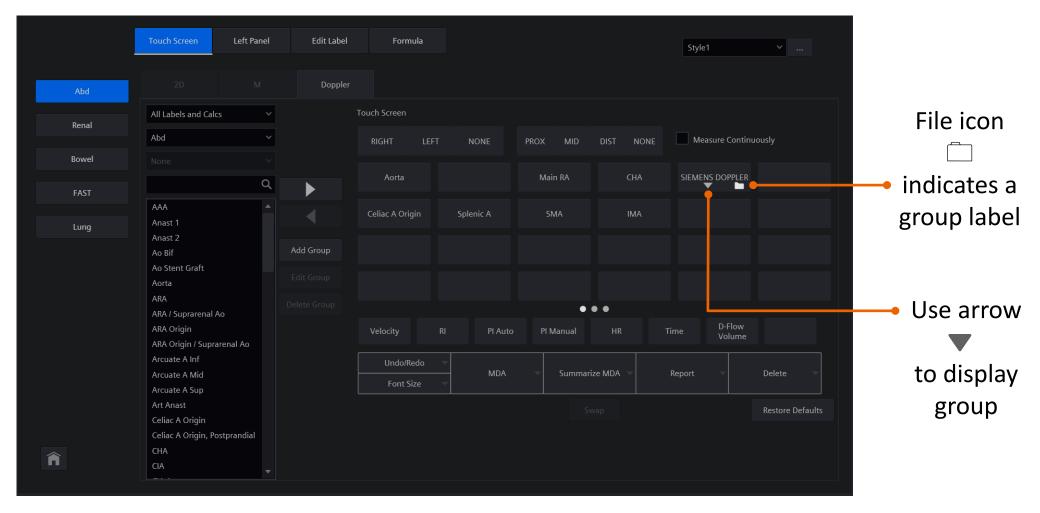




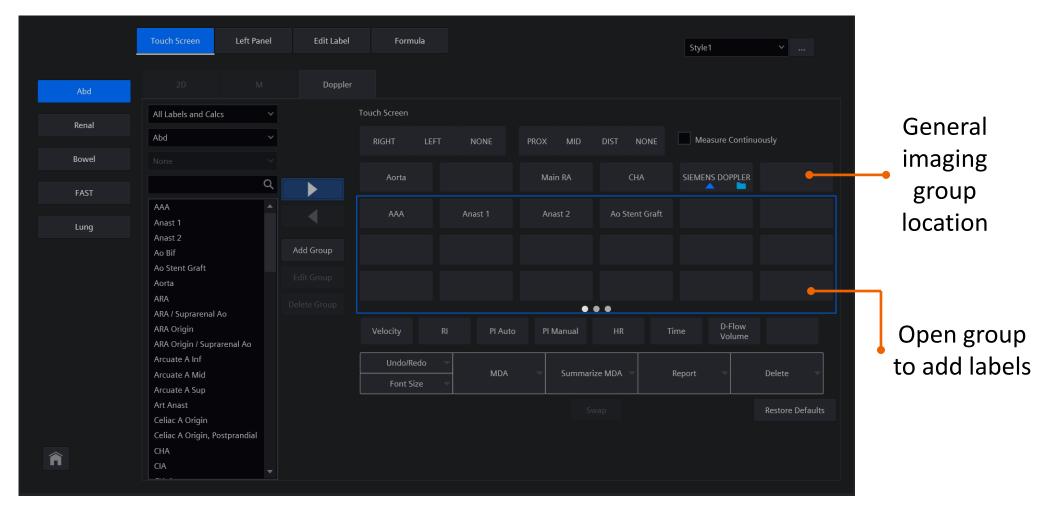






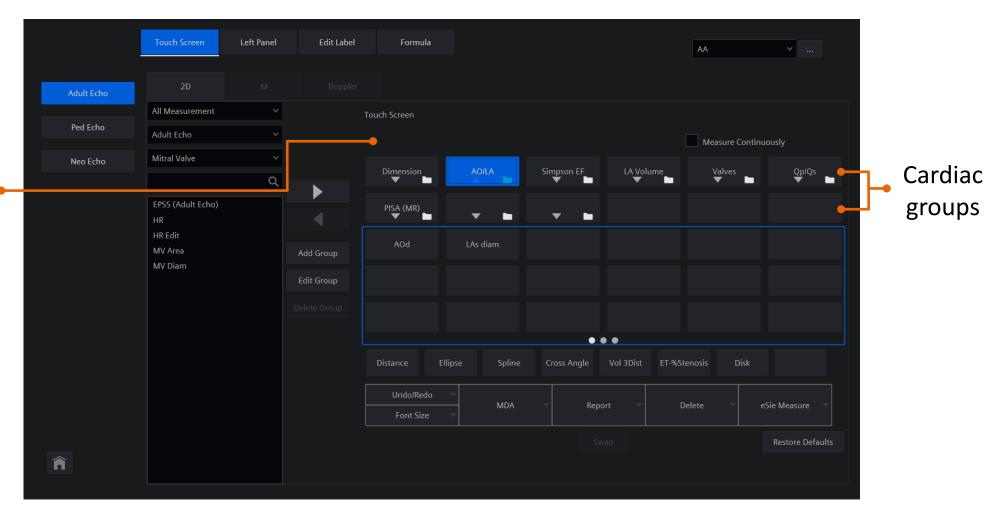








No labels for laterality — or location



Objectives

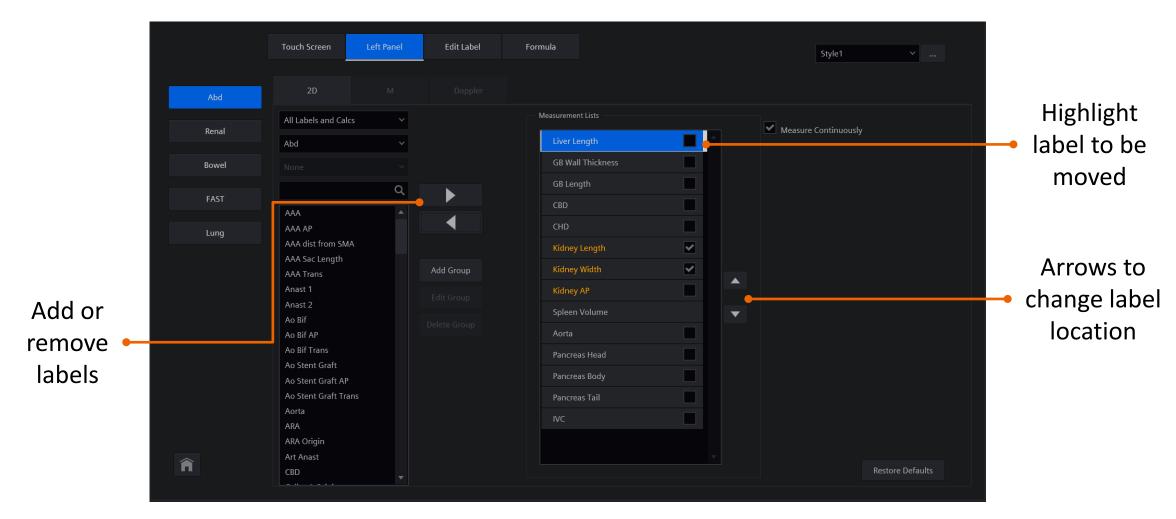


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Configuration Left Panel





Objectives

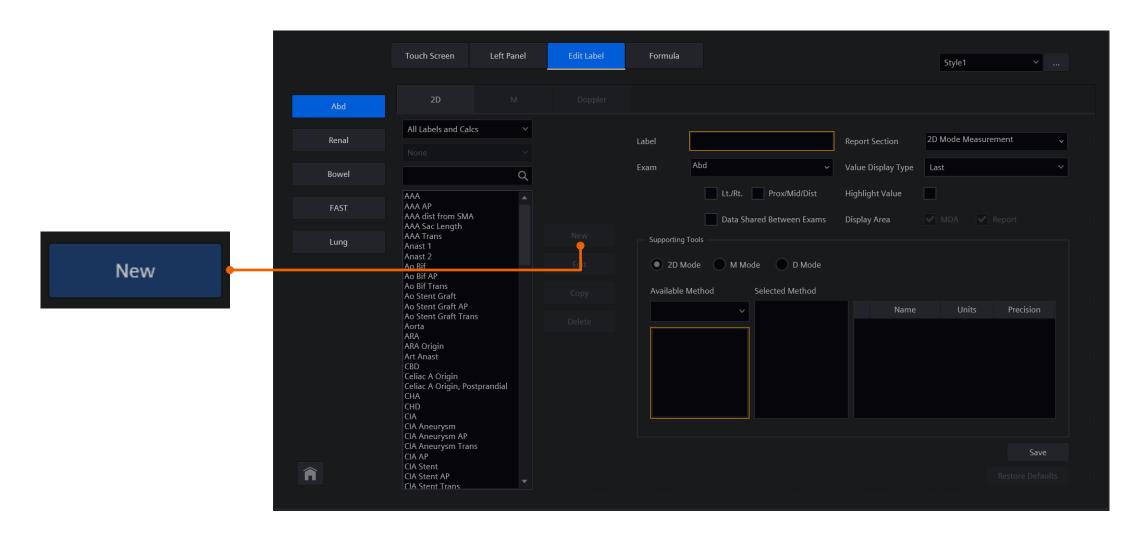


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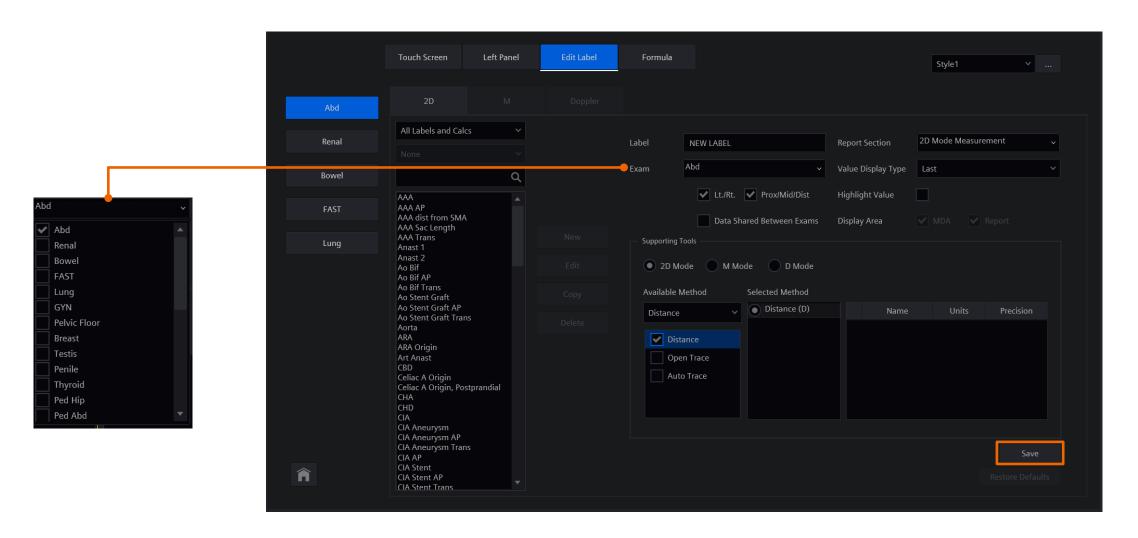
Configuration Edit Label





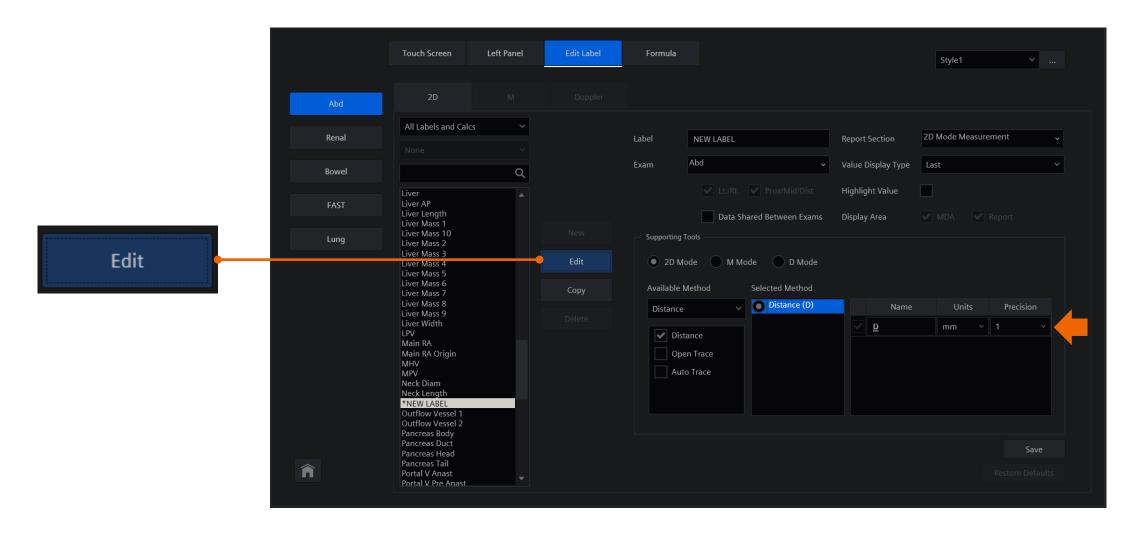
Configuration Edit Label





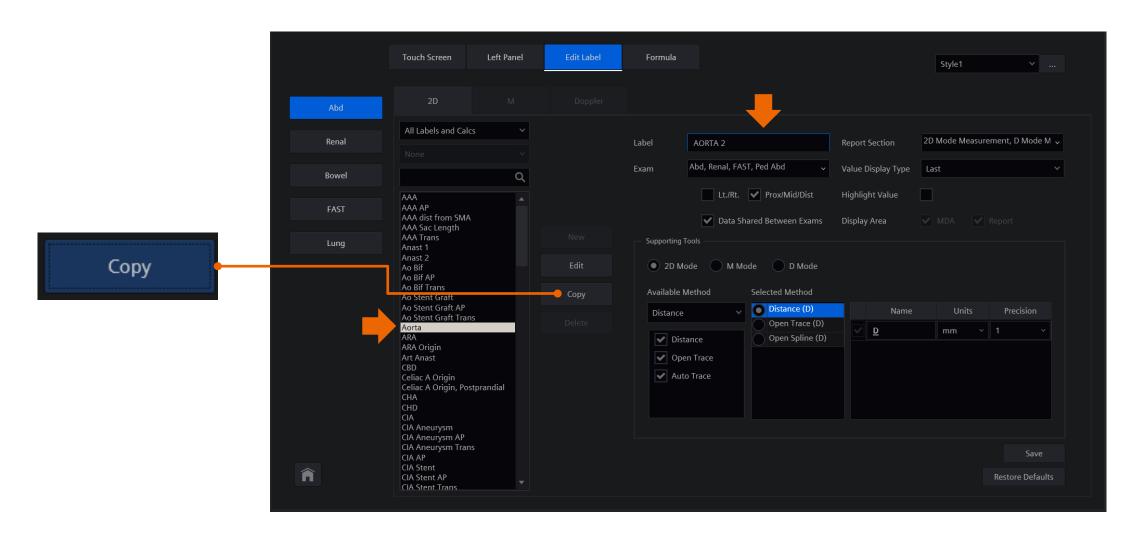
Configuration Edit Label





Configuration Edit Factory label





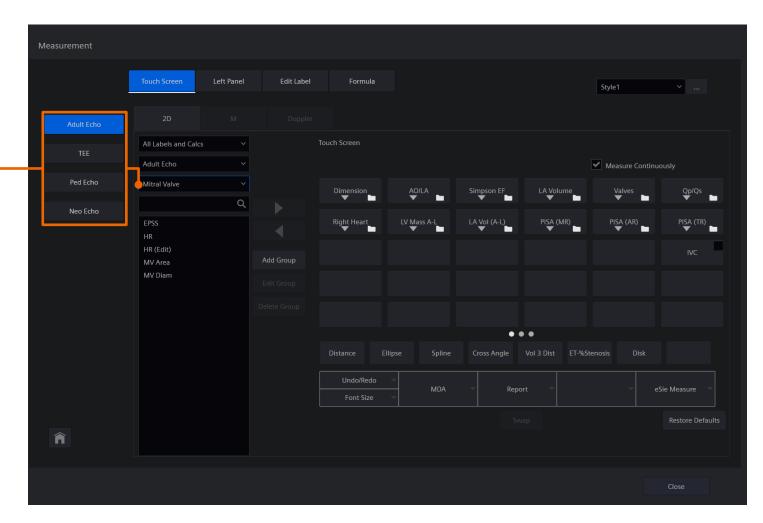
Configuration Cardiac Labels – Add New



 All Echocardiography exam types have label categories

 All other exams do not have label categories

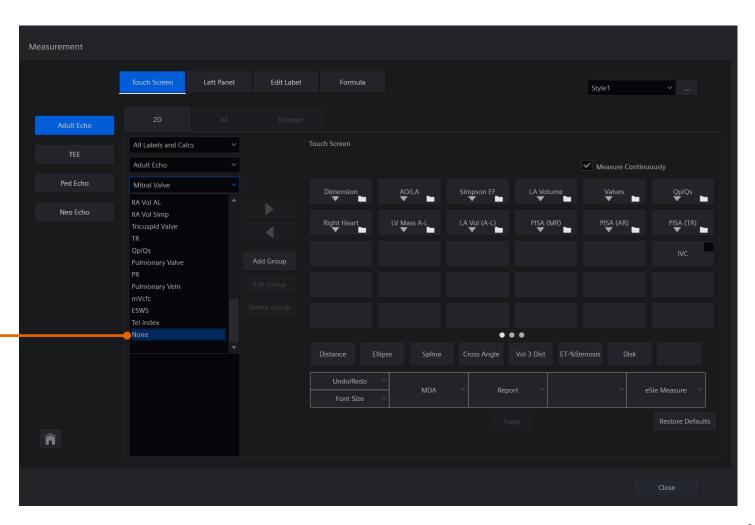




Configuration Cardiac Labels – Add New

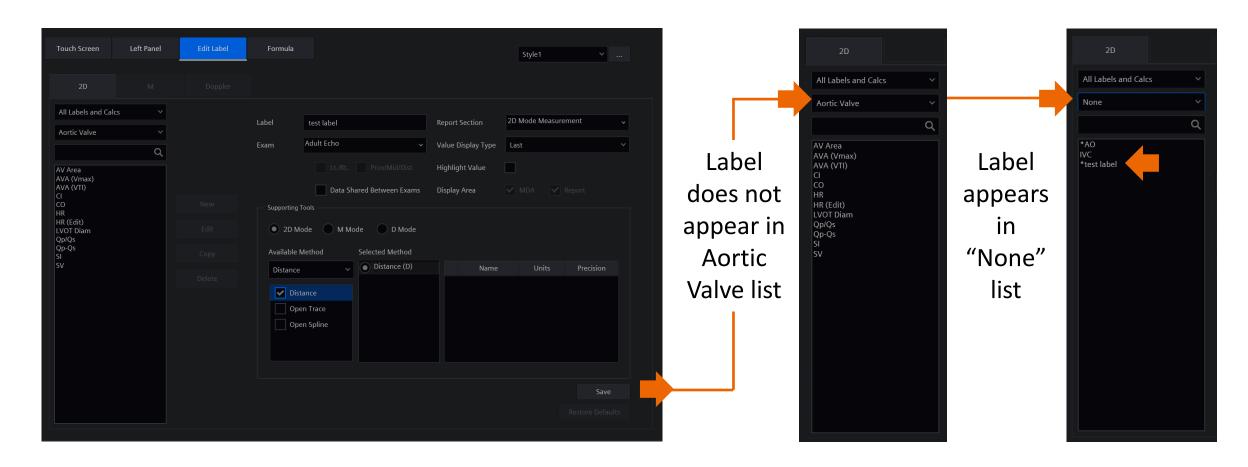


"None" category for Cardiac is at bottom of list



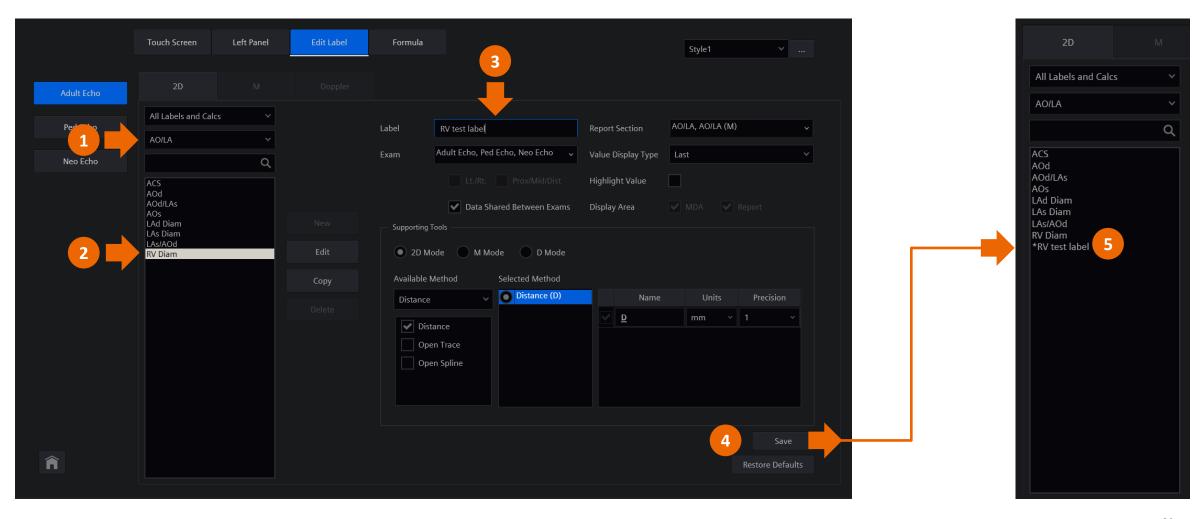
Configuration Cardiac Labels – Add New





Configuration Cardiac Labels – Copy / Add New





Objectives



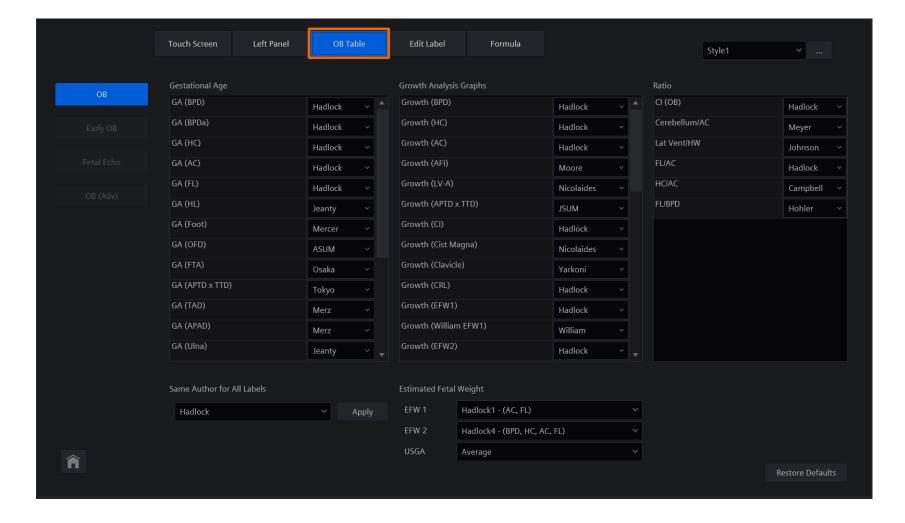
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Measurement Configuration OB Table

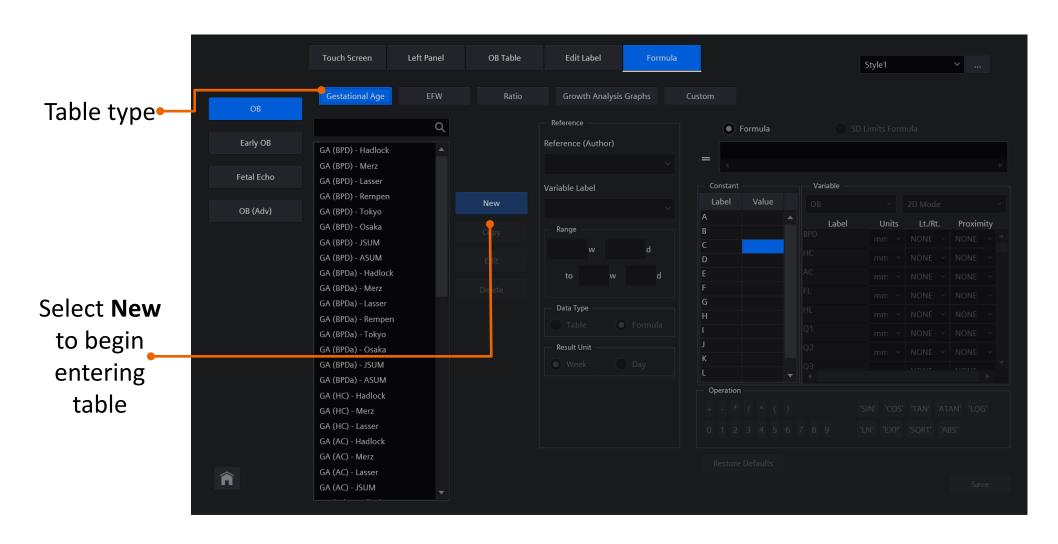






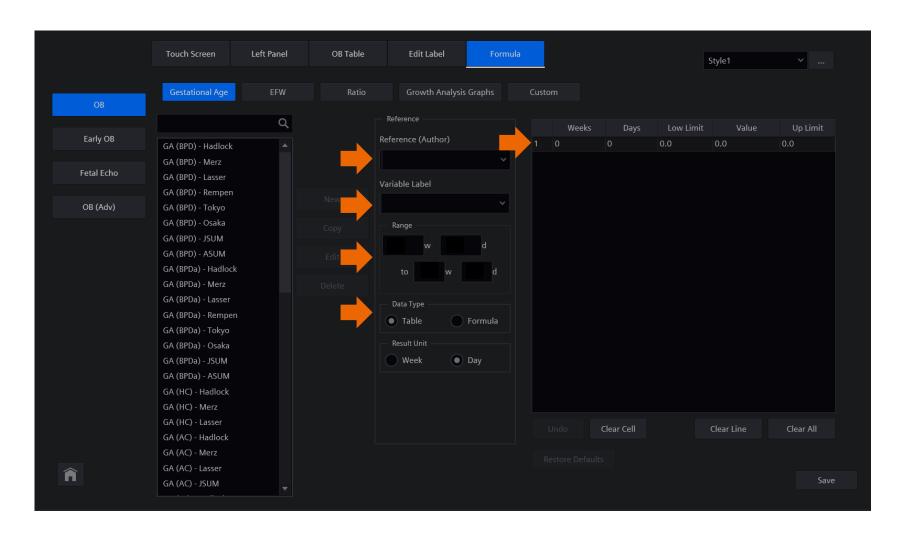
Measurement Configuration Formula – New table





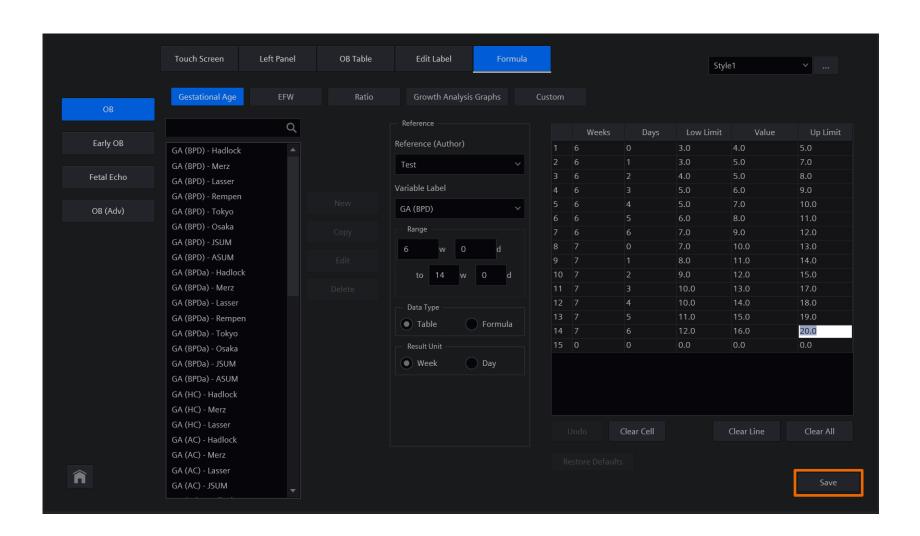
Measurement Configuration Formula – Custom GA table addition





Measurement Configuration Custom GA chart / Save

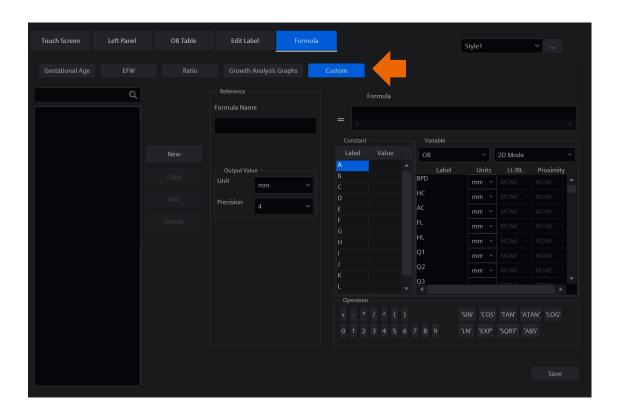


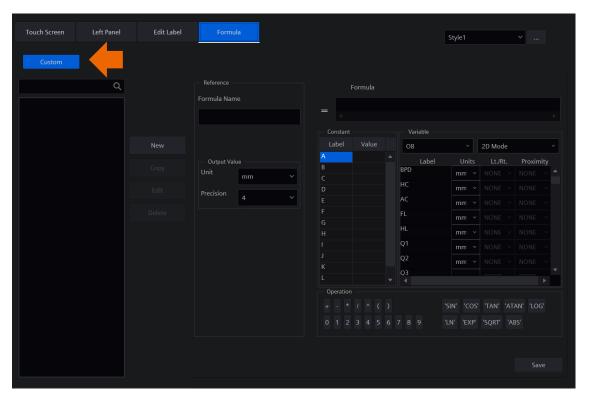




Measurement Configuration Custom Formula





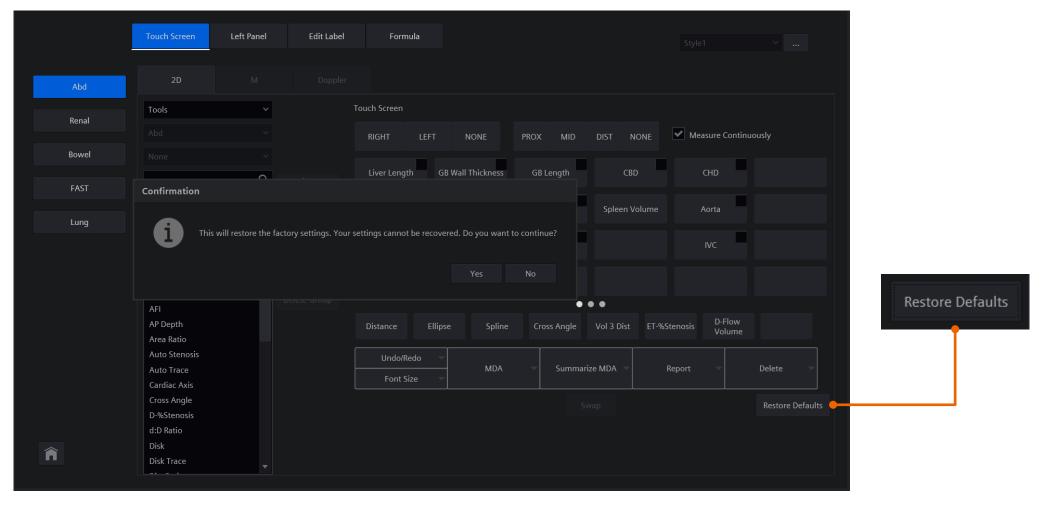


OB Custom Formula Tab

General Imaging Custom Formula Tab

Measurement Configuration Restore Defaults



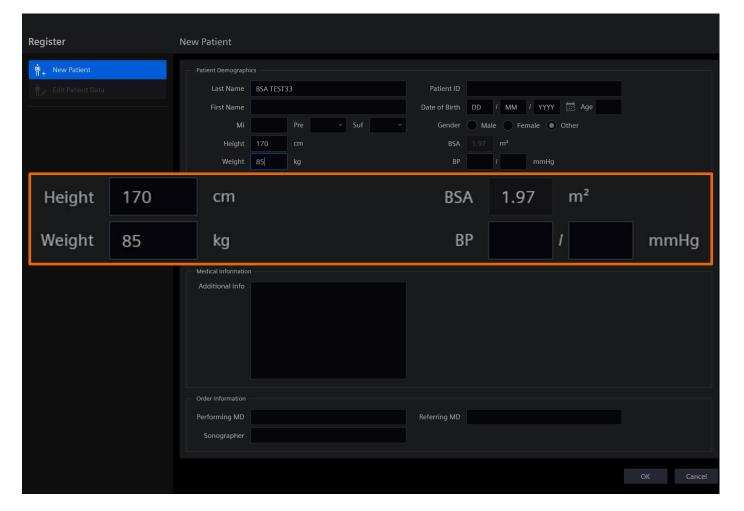


Custom formula using body surface area (BSA) Echocardiography



Custom formulas using BSA are only supported in Echocardiography measurement configuration menu

For custom **BSA** formulas to work, user <u>must</u> enter **Height** and **Weight** for patient's exam

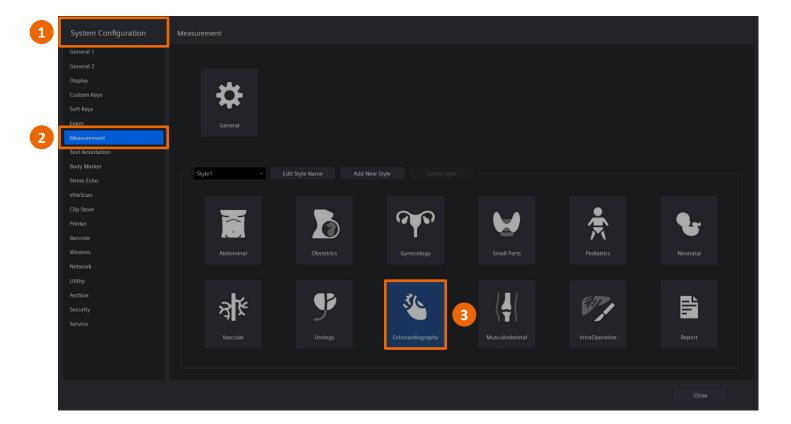


Creating a custom formula using BSA Echocardiography



To access:

- 1. System Configuration
- 2. Measurement
- 3. Echocardiography

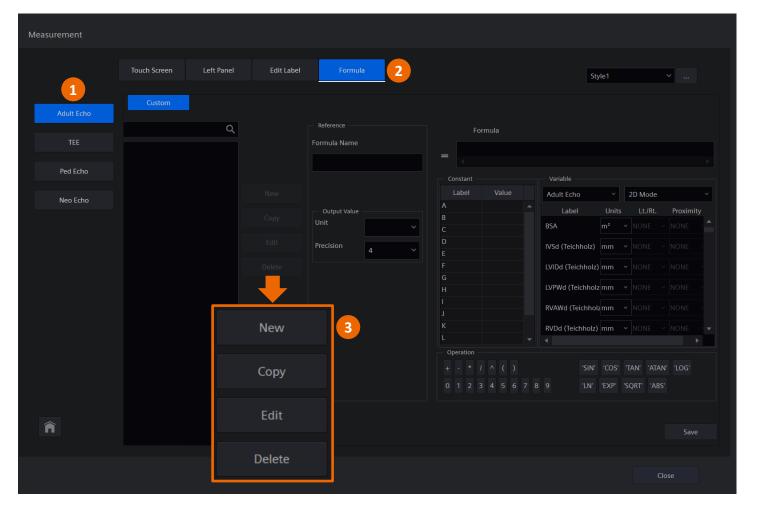


Creating a custom formula using BSA Echocardiography



To begin creating a new custom formula:

- 1. Select exam type
- 2. Select Formula
- 3. Select New



Creating a custom formula using BSA Echocardiography



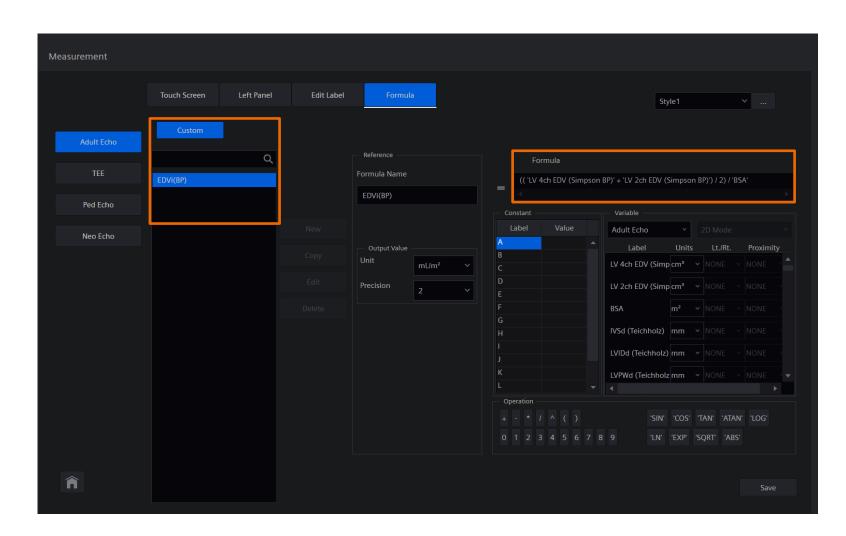
- Define Formula Name
- Select **Unit** and **Precision** of measure
- 3. Choose exam type
- 4. Select mode of measure
- Listed available factory labels
- Available operations for creating custom equation
- Custom Formula displays as created

Left Panel Edit Label Ped Echo Adult Echo Neo Echo LVLd apical (Simp mm V NONE V NONE Â

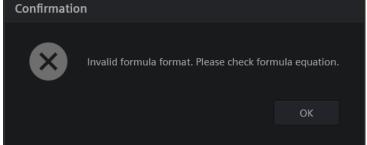
Select **Save** to complete formula

Custom formula using BSA example Echocardiography



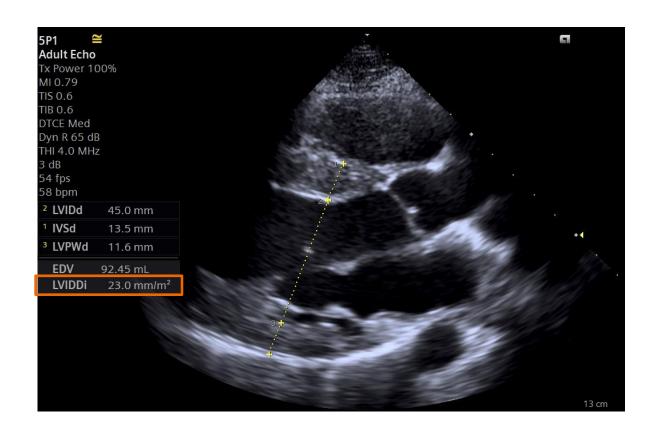


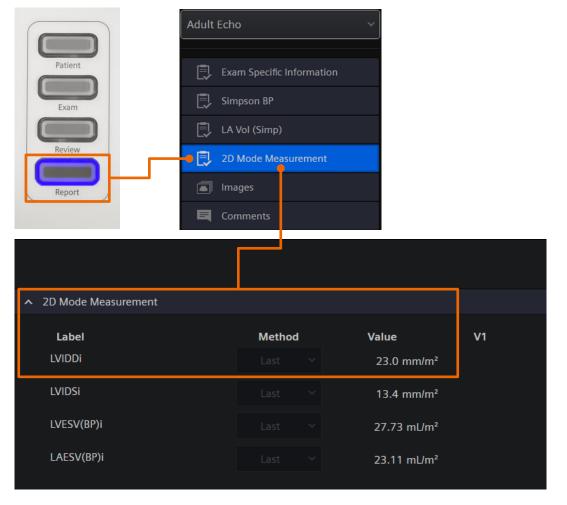
"Invalid formula format" notification appears when a custom formula is not created correctly



Display of custom formula results using BSA example Echocardiography







Common custom formula equations with BSA Echocardiography



- LVIDDi Left Ventricular Internal Diameter diastole indexed 'LVIDd (Teichholz)' / 'BSA'
- LVIDSi Left Ventricular Internal Diameter systole indexed 'LVIDs (Teichholz)' / 'BSA'
- LVEDV(BP)i Left Ventricular End Diastolic Volume biplane indexed (('LV 4ch EDV (Simpson BP)' + 'LV 2ch EDV (Simpson BP)') / 2) / 'BSA'
- LVESV(BP)i Left ventricular End Systolic Volume biplane indexed (('LV 4ch ESV (Simpson BP)' + 'LV 2ch ESV (Simpson BP)') / 2) / 'BSA'
- LAESV(BP)i Left Atrial End Systolic Volume biplane indexed (('LA 4ch ESV (LA Vol Simp)' + 'LA 2ch ESV (LA Vol Simp)') / 2) / 'BSA'
- RAESVi Right Atrial End Systolic Volume indexed '4ch (RA Vol Simp)' / 'BSA'

Custom formula using BSA - key reminders Echocardiography



- Height and weight must be entered during patient registration for custom formulas using BSA to work
- Must use at least one or more predefined measurement labels in addition to BSA
- Custom label cannot be used in custom formula (only factory loaded labels are available for use in custom formulas)
- Custom formula names are unique for each exam type under the Echocardiography measurement configuration menu

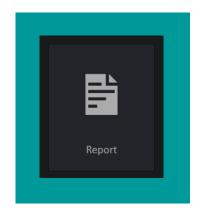
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Measurement Report 4 Category Tabs

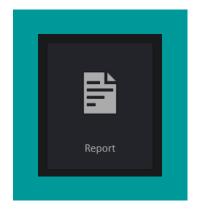
Report Section

Anatomy Assessment

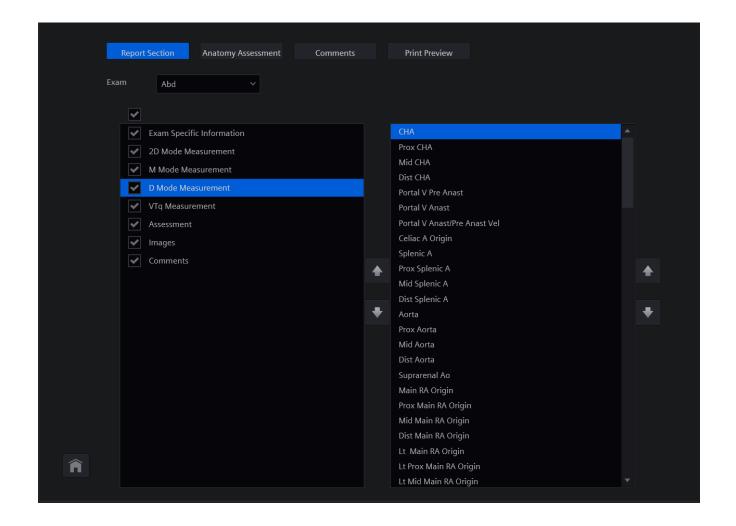
Comments

Print Preview

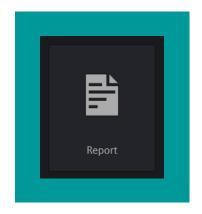




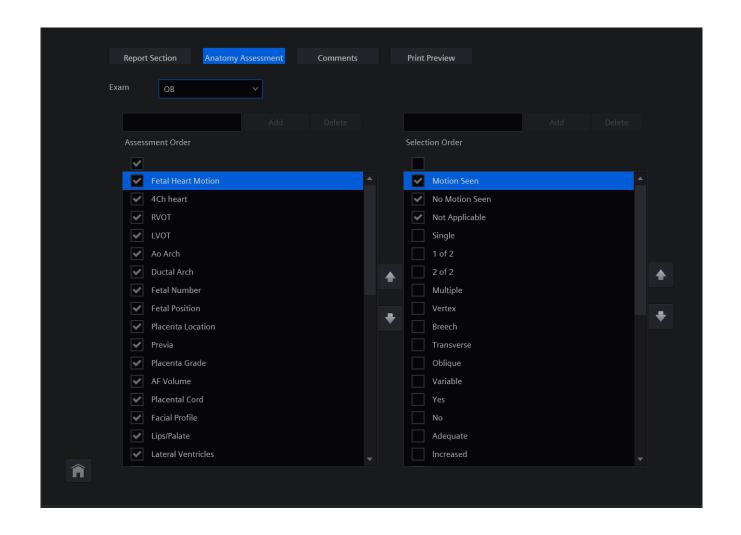
Report Section





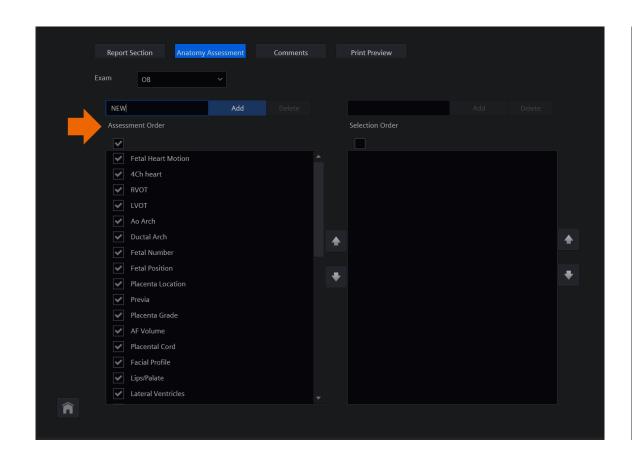


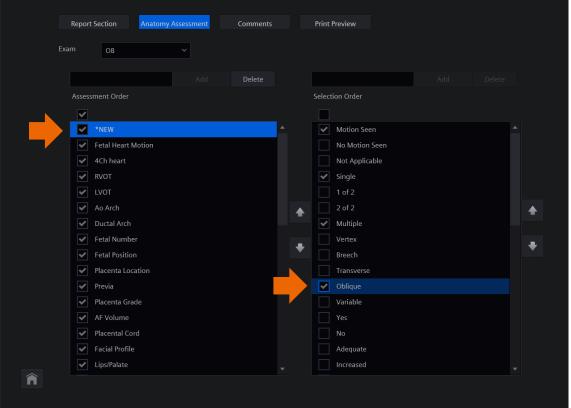
Anatomy Assessment



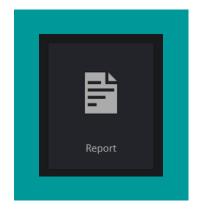
Patient report Anatomy Assessment



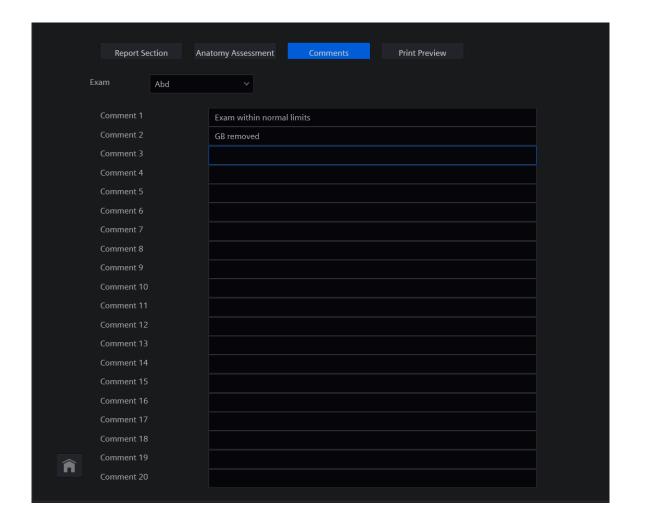




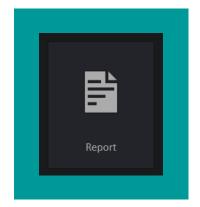




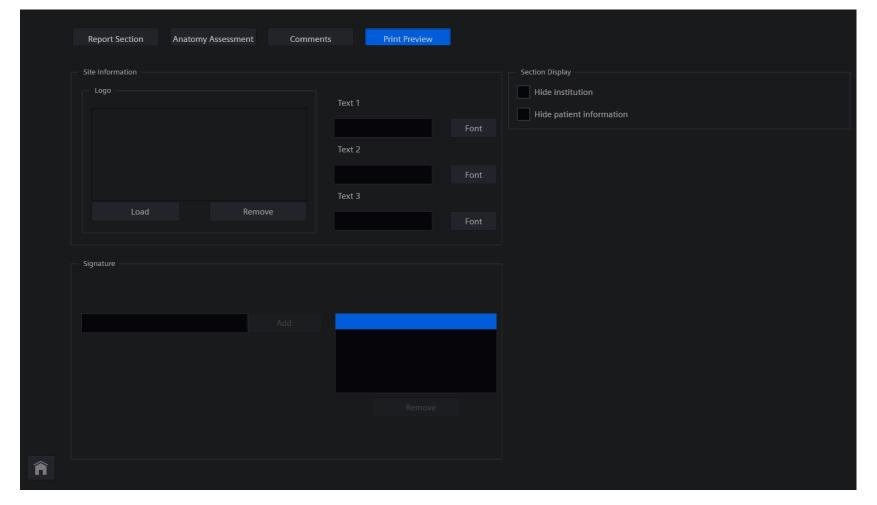
Comments





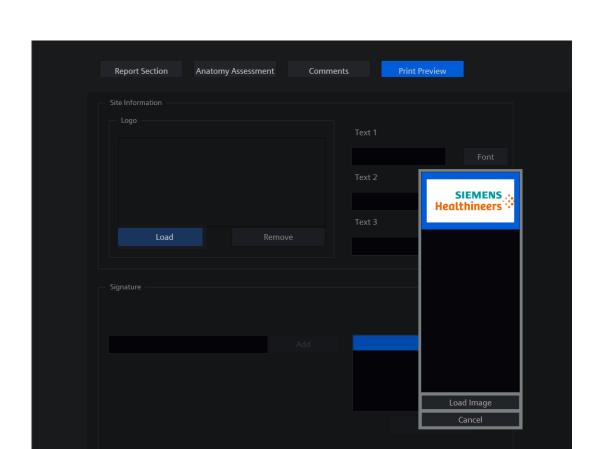


Print Preview

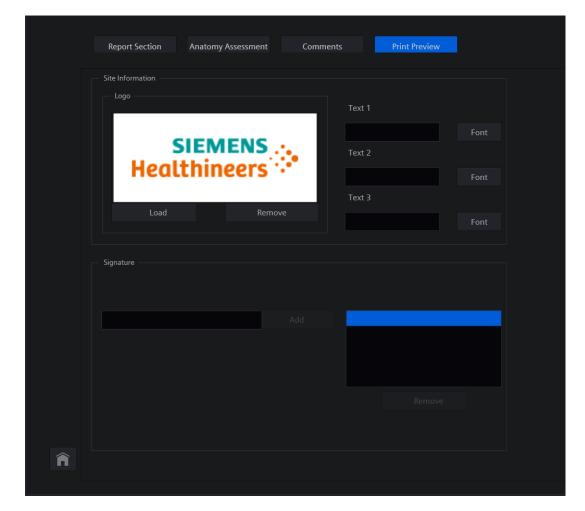


Patient report Logo customization

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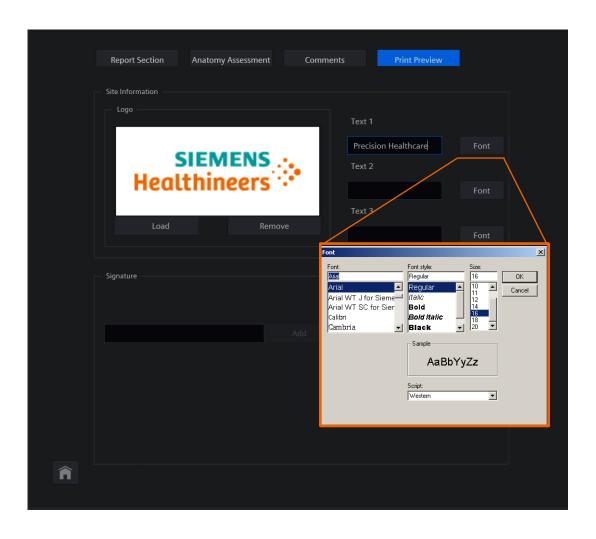


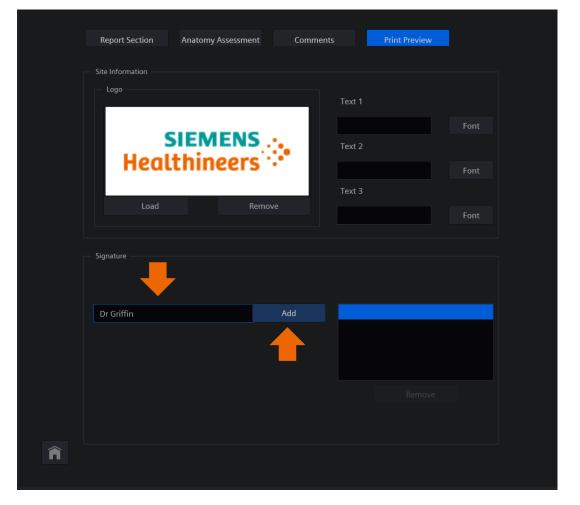




Patient report Personalized text and signature

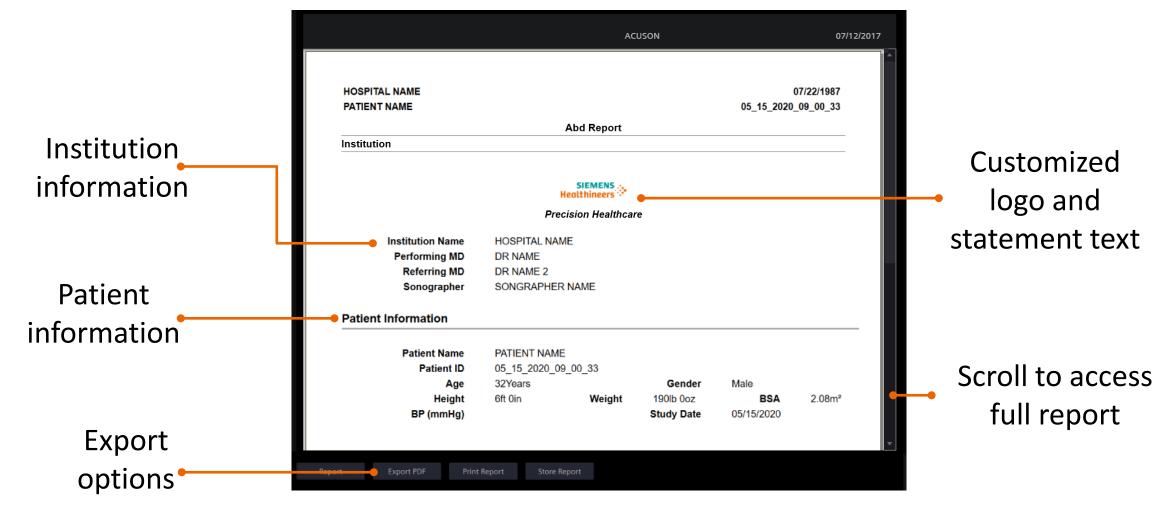






Patient report PDF with logo / text example





Patient report Print Preview > Section Display

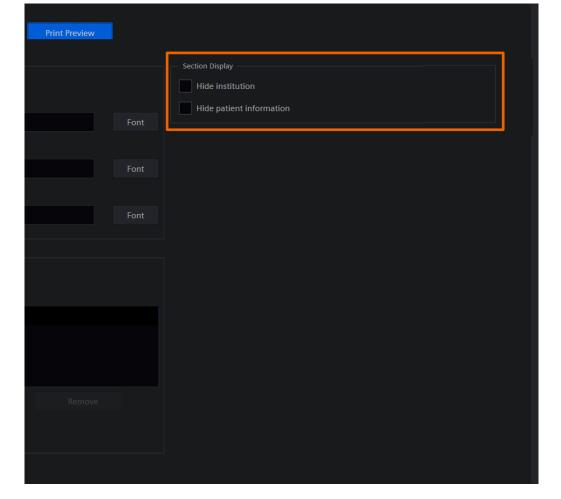


Section Display contains options to control what is displayed in report

Options are:

- Hide institution
- Hide patient information

Selecting these options will shorten report length when displaying, exporting, or storing it to patient file



Patient report > Store Report example "Hide"



JOHN DOE 123												
Thyroid Report												
Institution												
Institution Name Performing MD Referring MD Sonographer				HOSPITAL NA DR ABC	AME							
Patient Information												
Patient Name JOHN DO Patient ID 1234567 Age 64Years Height BP (mmHg)		E Weight		Gender Study Date			Male BSA 06/08/2020					
2D Mode Measuremer	nt											
Label Rt Thyroid Lobe SAG Rt Thyroid Lobe AP Rt Thyroid Lobe TRV Rt Thyroid Lobe Volum 2D Mode Side by Side		Method Last Last Last Last	Value 10.1 mm 7.4 mm 6.7 mm 0.24 mL	V1 10.1 7.4 6.7	V2	V3	V4	V5				
Label Thyroid Lobe SAG Thyroid Lobe AP Thyroid Lobe TRV	Right 10.1 mm 7.4 mm 6.7 mm 0.24 mL	Left										

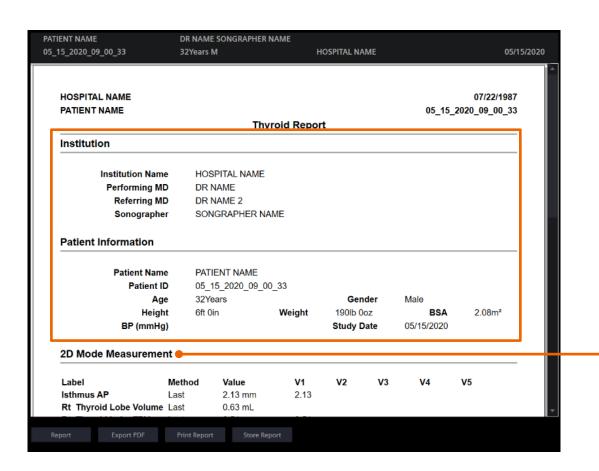
JOHN DOE			The	roid Report					12345
2D Mode Measurem	ent			roid Report					
Label		Method	Value	V1	V2	V3	V4	V5	
Rt Thyroid Lobe SAG		Last	10.1 mm	10.1	• •	••		• •	
Rt Thyroid Lobe AP		Last	7.4 mm	7.4					
Rt Thyroid Lobe TRV		Last	6.7 mm	6.7					
Rt Thyroid Lobe Volume		Last	0.24 mL	0.1					
2D Mode Side by Side	de								
_abel	Right	Left							
Thyroid Lobe SAG	10.1 mm								
Thyroid Lobe AP	7.4 mm								
Thyroid Lobe TRV	6.7 mm								
Thyroid Lobe	0.24 mL								
/olume									
mages									

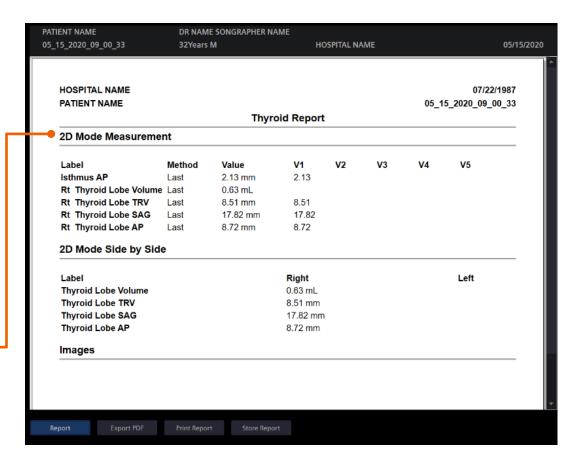
"Not Hidden"

"Hidden"

Patient report > PDF example "Hide"







"Not Hidden"

"Hidden"

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Thank you for your enthusiasm!



Questions?