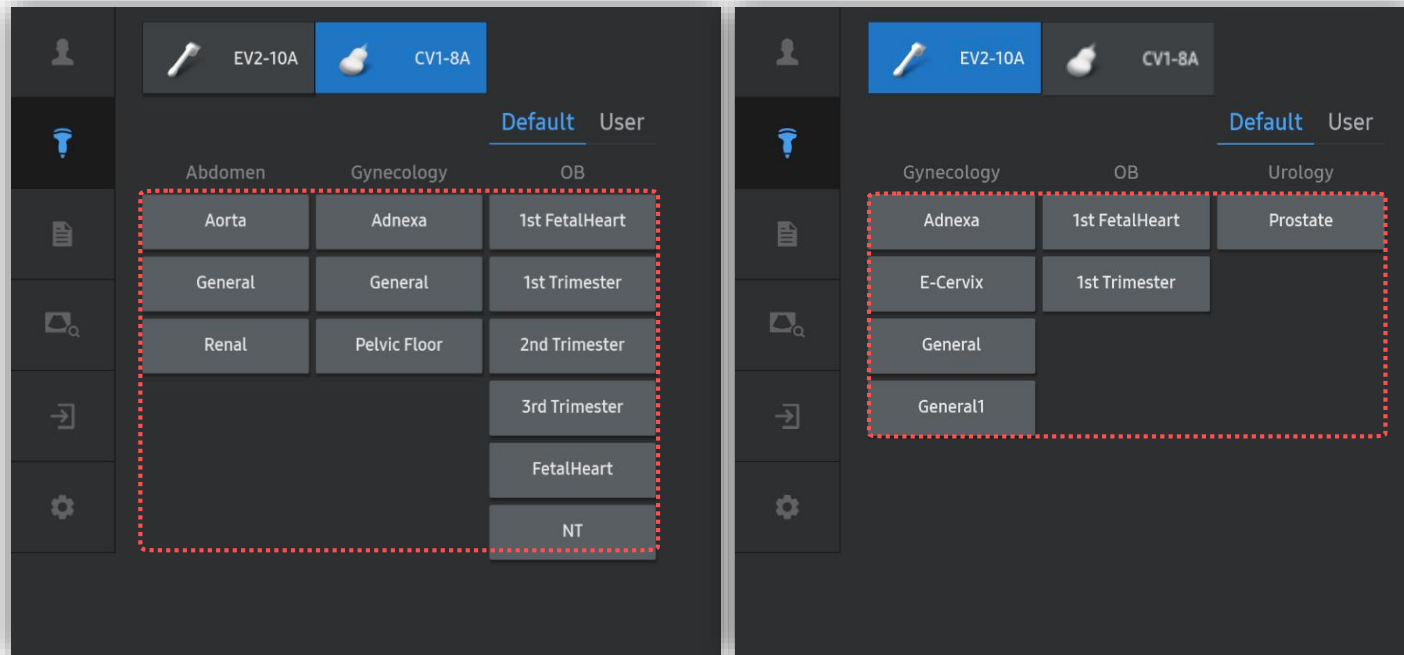


1. Probe and Preset



※ 5D Limb Vol.™ can be operated under the following conditions :

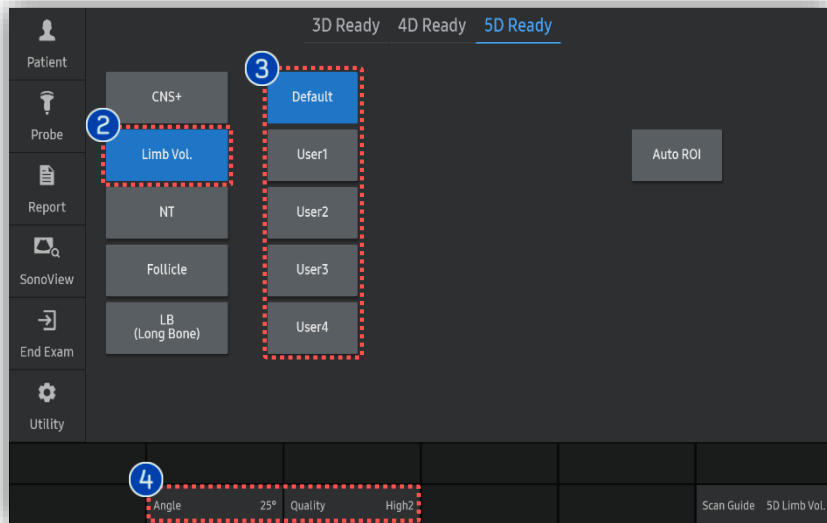
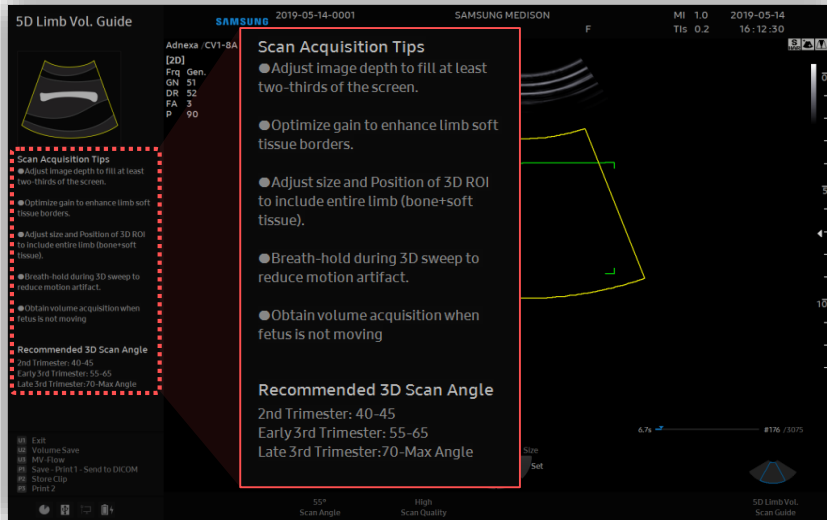
Probe	Application
CV1-8A, EV2-10A EV3-10B, EV2-12 (<i>Elite Only</i>)	All Presets * Select proper preset regarding to fetal gestational age.

★ Tips

To display EFW based on AVol. or TVol., set the EFW Author of fetal weight equation to [Lee1] or [Lee2] in the setup.

**For instructions, refer to the appendix of this manual*

2. Activate 5D Limb Vol.™ (Before 3D Acquisition)



Press [5D] button on the control panel.

1 5D Button



2 Limb Vol.

Tap [Limb Vol.] to activate 5D Limb Vol.™

3 Preset

Select preferred preset between default and users. Each 5D feature can have its own preset parameters.

4 Parameters

Scan [Angle] and [Quality] are customizable.

5 Image acquisition

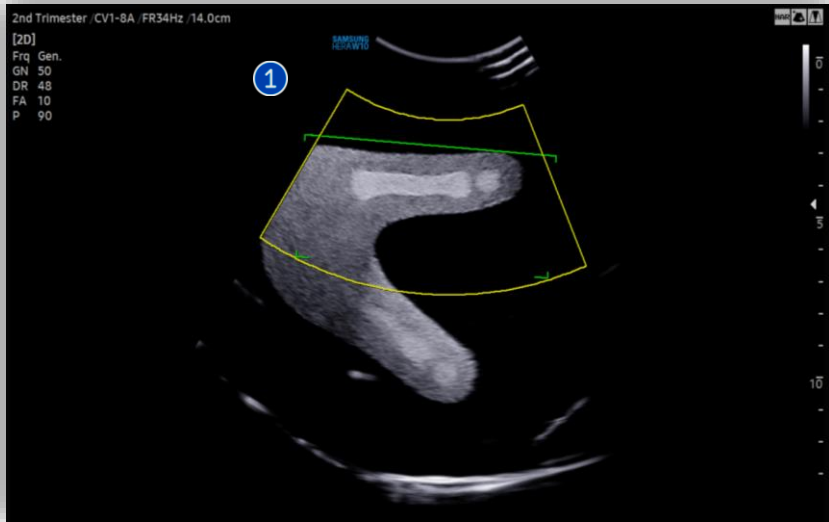
Scan the upper arm or thigh of fetus.

★ Scan Acquisition Tips

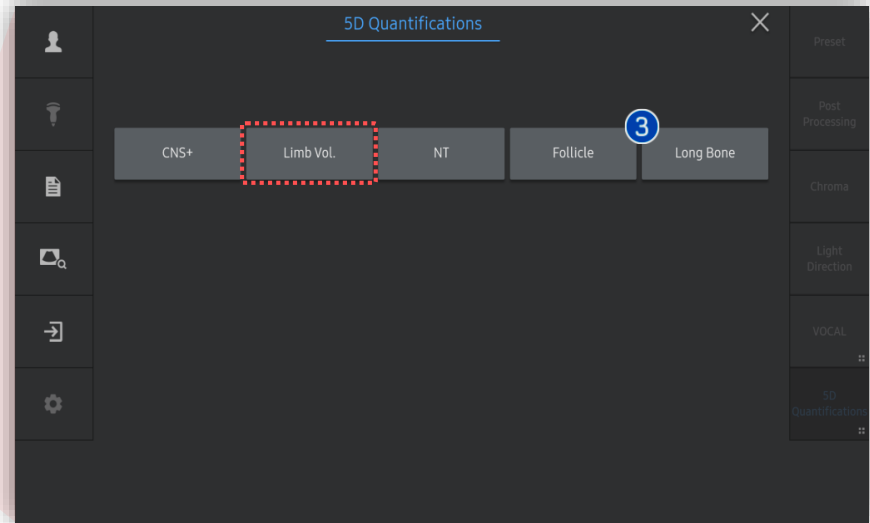
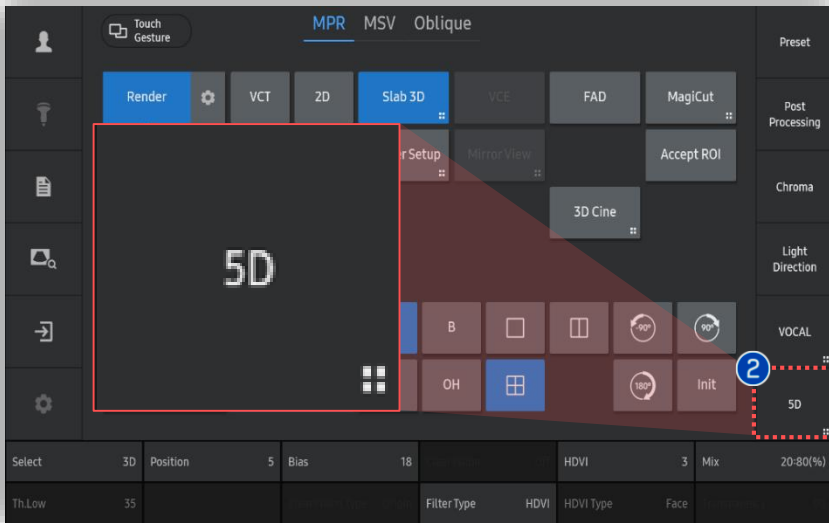
- Adjust image depth to fill at least two - thirds of the screen.
- Optimize gain to enhance limb soft tissue borders.
- Adjust size and position of 3D ROI to include the entire limb (bone + soft tissue).
- Breath - hold during 3D sweep to reduce motion artifact.
- Obtain volume acquisition when fetus is not moving.

5D Limb Vol.™

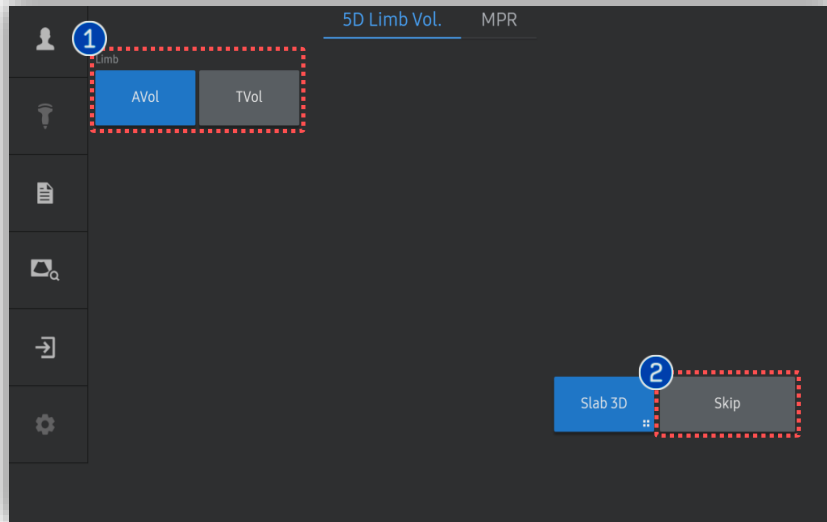
3. Activate Limb Vol.™ (After 3D Acquisition)



1 Image acquisition	Scan the upper arm or thigh of fetus.
2 5D	Tab to activate 5D features.
3 Limb Vol.	Tap to activate [Limb Vol.].



4. Bone Editing



1 Limb Type

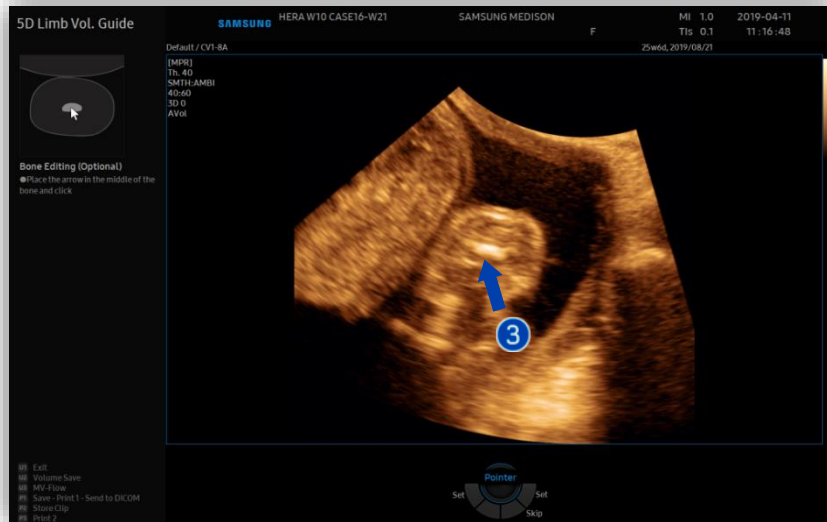
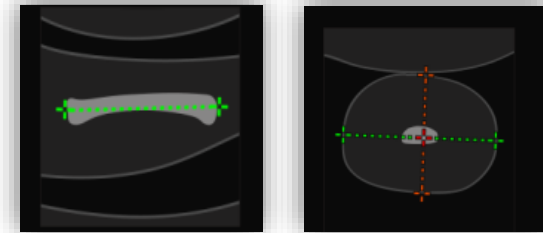
Select limb type between arm (AVol) or leg (TVol).

2 Skip

To Skip [Bone Editing] process, tap [Skip].

★ Tips

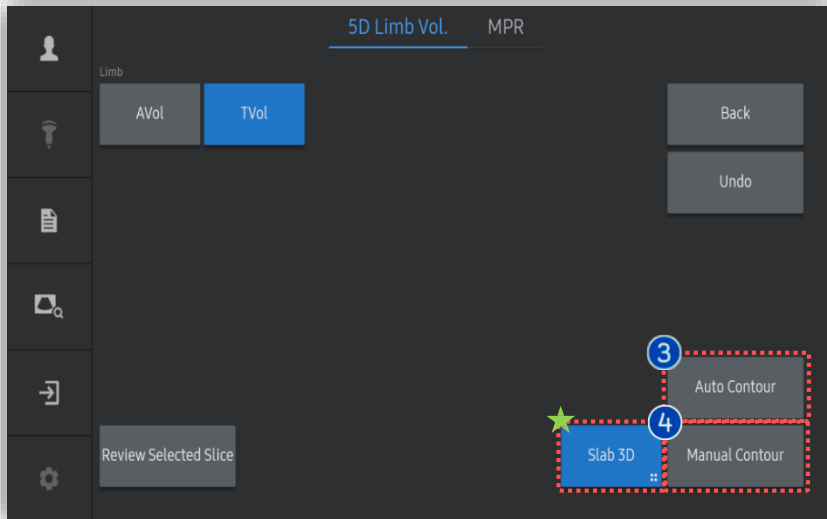
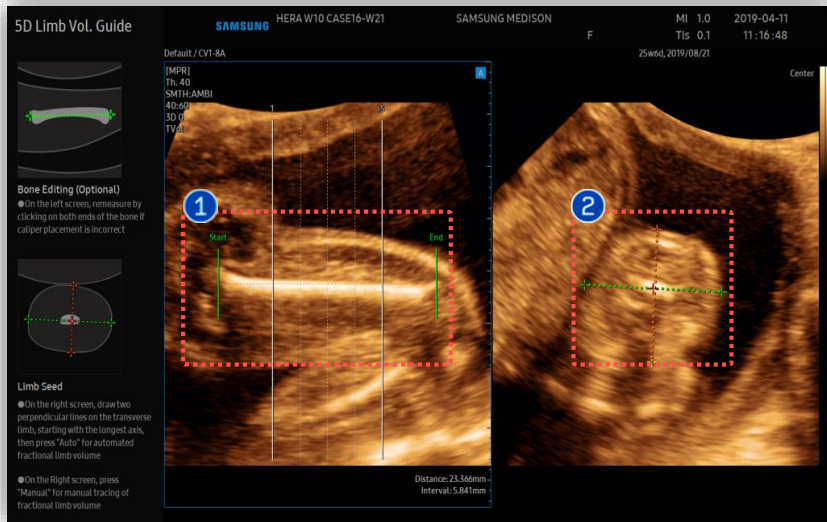
In case of using [Skip] on this progress, next two step which is [Bone Editing] and [Limb Seed Selecting] should be done for more accurate result.



3 Bone Editing (Optional)

If you do not skip [Bone Editing], place the arrow on the **middle of bone** and [Set].

5. Bone Editing and Limb Seed



1 Bone Editing

Re-measure by clicking on the both ends of the bone if auto caliper placement is incorrect.

2 Limb Seed

Draw two perpendicular lines on the transverse limb, starting with the longest axis, then press [Auto Contour] or [Manual Contour].

3 Auto Contour

Locate and measure the volume of fetal limbs automatically.
(This method is recommended)

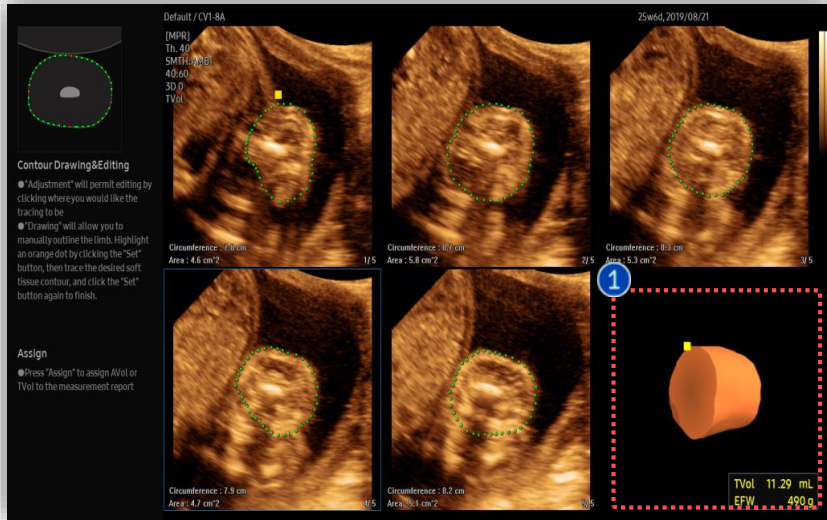
4 Manual Contour

Locate and measure the volume of fetal limbs manually by using contour tool.

★ Tips

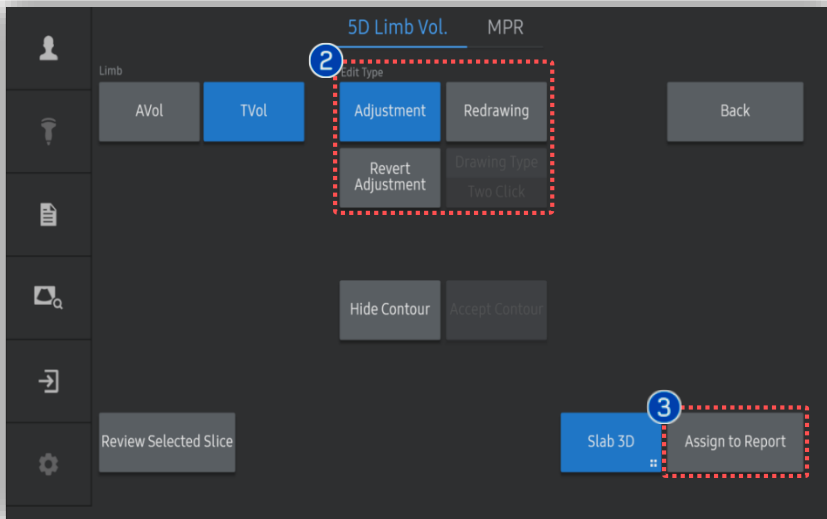
Slices of a 3D image will be displayed as images rendered in 3D. You may select ★ [Slab 3D] type among Surface, X-ray, Max and Min.

6. Result and Edit



1 Result

3D rendered limb image and volume data will be provided at the bottom right.



2 Edit Type

When edit is needed select proper type of edit among 'Adjustment', 'Redrawing' and 'Revert Adjustment'.

3 Assign to Report

Tap to apply calculated result including Limb Vol. and EFW to the report.

7. 5D Limb Vol.™ Result in Report

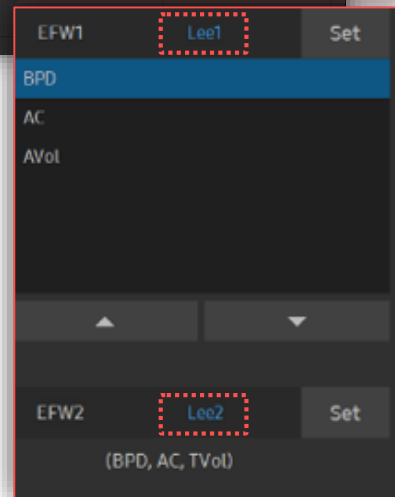
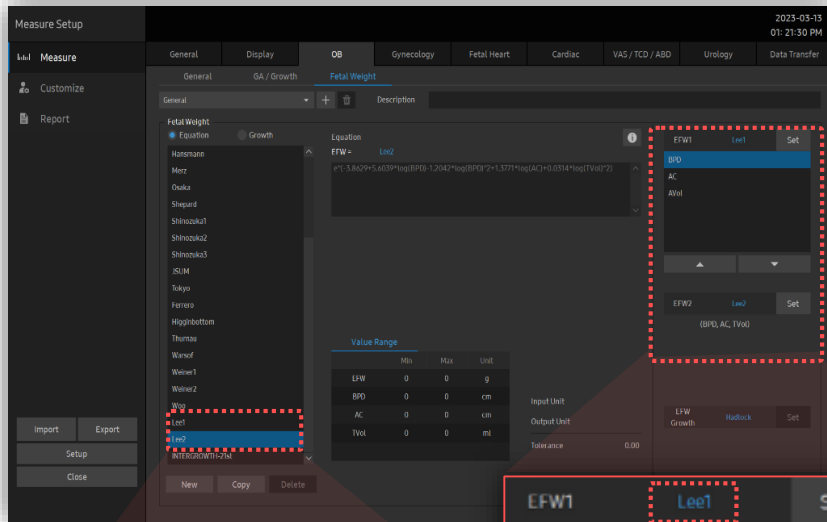
Name	ID		HERA W10 CASE16-...		Exam. Date	2
Gender	Female		HR			b
Institute	SAMSUNG MEDISON					
[OB]						
LMP(GA)	2018-11-14	EDD(GA)	2019-08-21	GA	21w0d	
AUA	21w2d	Pctl. Criteria	AUA	EFW	419g±63g	
GA(EFW)	21w1d	Pctl.(EFW)	4796	SD(EFW)	-0.05	
Fetal Biometry						
	GA	Avg.	1	2	3	Pctl.
BPD	Hadlock 21w4d±12d	5.18 cm	5.18			Hadlock 65.62
HC	Hadlock 21w3d±10d	19.18 cm	19.18			Hadlock 46.36
AC	Hadlock 21w2d±14d	16.32 cm	16.32			
FL	Hadlock 21w1d±12d	7.53 cm	7.53			Hadlock 36.25
TVol		11.47 ml	11.29	11.56	11.56	
5D Limb Vol.						
EFW (TVol)		491 g	490	492	492	
Umbilical A						
	Avg.	1	2	3		Pctl.
PSV	53.34 cm/s	53.34				
EDV	13.42 cm/s	13.42				
TAPV	30.24 cm/s	30.24				
TAMV	15.44 cm/s	15.44				
PGmax	1.14 mmHg	1.14				
PGmean	0.43 mmHg	0.43				
S/D	3.97	3.97				

1 Report

Limb volume and EFW(Estimated Fetal Weight) by obtained limb volume will be displayed.

TVol	11.47	ml	11.29	11.56	11.56	
5D Limb Vol.				1	2	3
EFW (TVol)	491	g	490	492	492	

* Appendix – Assign EFW table



① 5D Button

Go to [Measure] in the measure setup,
 Measure setup → Measure OB tab →
 Fetal Weight → EFW1, EFW2
 Assign 'Lee1' or Lee2' EFW table.

- The features mentioned in this document may not be commercially available in all countries. Due to regulatory reasons, their future availability cannot be guaranteed.
- Do not distribute this internal document to customers unless relevant regulatory and legal affairs officers approve such distribution.
- This product is a medical device, please read the user manual carefully before use.
- This document is provided to help you understand the feature.
- This User Quick Guide is based on HERA W10 V1.03.03d
- Disclaimer: Some Images in this content were obtained from other system.

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