

SAMSUNG



UterineAssist™

HERA Z20 Quick Guide



Produced by Clinical Training Center / SAMSUNG MEDISON CO., LTD

1. Start UterineAssist™





 Image Acquisition 	Acquire the sagittal or transverse image of the uterus in 2D mode and press the [Freeze] button.
2 Start UterineAssist	Tap [UterineAssist] button on the touch screen to start.

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<u>Ute</u>rineAssist™

2-1. Measure on Sagittal Plane

Patient 2	2D <u>Uterine</u>	Assist				Standard	\times
Auto	o Measure				TGC	ľ	
Probe) Sagittal	Transverse					
Edit	Variables						
SonoView			< Version Anteverted >	< Echogenicity UnSelected >			
End Exam	Menstrual Phase > UnSelected >				•		
Utility					Init.	TGC	
					< (Thumbnail Load	>
		V8 Gynecology					2022-01-27
UterineAssist	SAMSUN	G 2-11AR / 5.0cm / 42Hz - 3, 3e /				1	1:42:46 AM
Patient Information Menstrual Phase							
Variables	A Frq Gen Gn 52 DR 116 FA 3		HERA 220	11-			
Endo. Thick (~14.0) Uterus Total L (60.0~105.0) Uterus L Uterus L Uterus H (20.0~50.0) Uterus W (30.0~60.0) Uterus W (30.0~60.0)	P 90% 8.5 mm 52.4 mm 31.9 mm						10
Roundness (H/L) Asymmetry (A/P)	0.61 0.91						ž
Fluid in the Endometriur	m -		1111	C C C C	-	0.680/0	4-

1 Sagittal	Tap [Sagittal] button to make auto measurement.
2 Variables	 Measured data is displayed on the left column. Additionally, the following are shown: [Fluid in Endometrium]: the presence or absence of fluid in the endometrium. [Flexion]: type is automatically presented.
3 Result	You will get the value of [Endo.Thick], [Uterus Total L], [Uterus Height], [Roundness (H/L)] and [Asymmetry (A/P)]. - [Uterus Total L] : Uterus Body + Cervix Length - [Uterus L] : Uterus Body Length

2-2. Edit the result on sagittal plane





 Asymmetry Marker It shows the line of anterior and posterior myometrium wall which were used to calculate the Asymmetry ratio (A/P).

- Endo.Thick, Uterus Length, Uterus Height
- Please tap the button of each item to revise the measurement.
- Measure line will be colored as green.
- You can select the start point by CP's change key and assign it by Set key.



\star Tips

2 Edit result

value

[Uterus Width] allows revision after measuring it on

the transverse plane.

3. Measure on Transverse plane

2

Result





Auto Meas. Transverse	Tap [Auto Meas.Transverse] button to make auto measurement.		
	Endo. Thick Uterus Total L Uterus L Uterus H Roundness (H/L) Asymmetry (A/P) Uterus W	9.4 mm 5 83.0 mm 62.7 62.7 mm 6 38.4 mm 6 0.61 6 6 0.86 45.3 mm	
	Uterus Vol.	57.18 cm ³	

You will get the [Uterus W] on

transverse view.

[Uterus Vol.] will be presented additionally if you have a [Uterus L] and [Uterus H] from sagittal view in advance.

4. Edit the Variables





- Fluid in the Endo. (Automated item)
 You can select "Yes" or "No".
- Uterus Position
- 1) Flexion (Automated item)
- You can update it. 3 items are provided as follows : Anteflexed, Retroflexed, Flat
- 2) Version (Manual update is required)
- Anteversion, Retroversion are provided as option.

Anterversion is selected as default.

- Echogenicity(Manual update is required)
- Homogeneous, Heterogeneous are provided as option.
- Menstrual Phase (Manual update is required)
- Menstrual Period, Early Proliferative, Periovulatory, Secretory, Post Menopause are provided as option.
- Uterus size (L/W/H) standard is different between Post Menopause and the others.

\star Tips

1 Edit

Variables

[Fluid in the Endo] and [Flexion] are presented on sagittal plane.

6. Interpretation

Patient Information Menstrual Phase			Patient Information	Menstrual Phase	Unselected / Menstrual Period / Early Proliferative / Periovulatory / Secretory / Post Menopause	
UnSelected	UnSelected					
Variables				Variables		
Endometrium (~14)	8.0	mm	Anatomy & Feature	Term	Measurement	Auto /Manual
Uterine Total L (60~105) Uterine L	74.9 52.0	mm mm	Endometrium	Endometrium	Endometrium thickness in sagittal view	Auto
Uterine H (20~50)	48.1	mm	Uterine corpus and cervix	Uterine Total L	Total length = d1 + [Cervix]	Auto
Uterine W (30~60) Uterine Vol.	53.2 69.64	mm ml		Uterine L	(d1) Length = [fundus] + [cavity]	Auto
Roundness (H/L)	0.92			Uterine H	(d2) Anteroposterior diameter	Auto
Asymmetry (A/P)	0.92		Uterine Corpus	Uterine W	(d3) transverse diameter	Auto
Fluid in the Endometriun	า	•		Uterine Vol.	Volume(cm³) = d1(cm)Xd2(cm)Xd3(cm) X 0.523	Auto
Flexion			Uterine shape	Roundness (H/L)	Ratio = [AP diameter] / [Length]	Auto
Anteflexion		•	Myometrial wall	Asymmetry (A/P)	[Anterior] / [Posterior] in AP diameter	Auto
Version		•	Endometrium	Fluid in the Endometrium	Excluded from endometrium thickness	Auto
Echogenicity				Flexion	Anteflexed/Retroflexed/Flat	Auto
UnSelected		•		Version	AnteVerted/RetroVerted	Manual
			Overall echogenicity	Echogenicity	Homogeneous/Heterogeneous	Manual

UterineAssi<u>st</u>™

6. Store with Result/Report



Patient	Frozen 2D	JterineAssist			Standard	\times
ratent	Auto Measure				TGC	2nd Trimester CMV1-10
Probe	Sagittal	Transverse				NT
P						CMV1-10
Report	Endo. Thick	Uterus Length	Uterus Height			CMV1-10
SonoView	< Fluid in the Endo. > No	< Flexion >	< Version Anteverted >	< Echogenicity > UnSelected >		1st FetalHeart CMV1-10
End Exam	< Menstrual Phase > UnSelected >				•	Abdomen CMV1-10
Utility	Reset	(Store with Result	Assign to Report	Init. TGC	3rd Trimester CMV1-10
< ^{Asym}	metry Marker > Off					

Store with
ResultTo save a UterineAssist image on the
thumbnail, please tap the [Store with
Result] button.You can assign the UterineAssist result
to the Report Page by tapping the [Assign
to Report] button on the touch screen.

2	Assign to
	Report

ID			Name	
Date of Birth(Age)		Gende	r	Exam D
Indication				
Diag. Physician		Ref. Physic	ian	
			Gynecology	,
AMP (Ovulation	Date	Gravida	
UterineAssist				
Endo. Thick		7.9	mm	
Uterus Total Length		70.9	mm	
Uterus Length		54.4	mm	
Uterus Height		32.9	mm	
Roundness (H/L)		0.61		
Asymmetry (A/P)		0.86		
Fluid in the Endometriun	n	No		
Flexion		Anteflexi	on	
Version		Antevert	ed	
Echogenicity		UnSelect	ed	
i				

7. Setup Page

tup	General Display Menu Application Applica	tion Options AutoCalc Tables Author		2024-05-22 04:45:23 PM
System	Anniration GVN			
Imaging				
Assist	Follicle	1 terineAssist		
Measurement	Sort by Number -	Endometrium Normal Range	≤ 14.0	mm -
Report	Ascending Descending	In Early proliferative 3.0	~ 8.0	
Report		In Periovulatory 10.0	~ 16.0	mm
Annotation		In Secretory	≤ 16.0	
BodyMarker	2D / 5D Follicle	In the Post menopause	≤ 4.0	mm
Customize	Stage	Uterus Normal Range		
Deviahavala	2 ≤ Early ≤ 10	Length 60.0	~ 105.0	mm •
Peripherats	$10 \leq Middle \leq 16$	Height 20.0	~ 50.0	mm
Connectivity	To 2 Post 2 20	Width 30.0	~ 60.0	mm
Service		Uterus in the Post menopause		
	2D Follicle	Length 35.0	~ 75.0	mm
	Display Avg. in the results On Off	Height 17.0	~ 33.0	mm
		Width 20.0	~ 40.0	mm
	5D Follicle	Flexion Position		
	Report Review Type Short Eul	Flexion range	30	
		Anteflexion		
		Flat 150		
Save	Uterus	Retroflexion 210		
Fxit	Uterine Classification ESHRE/ESGE	×		Reset Settings
		·····		

Endo. Thick (~15)	14.4 mm
Uterus Total L (60~105)	97.3 mm
Uterus L	70.2 mm
Uterus H (20~50)	64.7 mm
Ulerus W (3060)	
Uterus Vol.	
Roundness (H/L)	0.92
Asymmetry (A/P)	0.91
luid in the Endometrium	
No	*
lexion	
Anteflexion	*

Variables

[Monitor Screen]

[Variables_Automated]

Set up user's	You can set the cut-off values of each criterion manually. When result value exceeds the cut-off, it is colored as orange on the Variable tab in scan
standard value	mode.
	Setup > Measurement > Application Options > Application GYN > UterineAssist

- The features, options may not be commercially available in some countries.
- · Sales and shipments are effective only after the approval by the regulatory affairs. Please contact your local sales representative for further details.
- This Quick guide does not include all of the details of instruction, fore more detail, please refer to HERA Z20 User Manual.
- · Do not distribute this document to customers unless relevant regulatory and legal affairs officers approve such distribution.
- This User Quick Guide is based on HERA Z20 V1.00.
- Disclaimer: Some Images in this content were obtained from other system.

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