





HERA Z20 Quick Guide



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

1. Probe and Preset

| Patient | | СМV1-10 | LM2-18 | EA2-11AR | |
|----------|---------|-------------|----------------|----------|-------------|
| | | | | | |
| Probe | Default | User | | | Deebe Are |
| | Abdomen | GYN | ОВ | Urology | Order |
| Report | Abdomen | Uterus | 1st Trimester | Prostate | |
| | Renal | Adnexa | 2nd Trimester | Bladder | |
| SonoView | Bowel | Penetration | 3rd Trimester | | |
| End Exam | Aorta | | NT | | |
| | | | Fetal Heart | | |
| Utility | | | 1st FetalHeart | | |
| | | | Biopsy | | Ouick |
| | | | | | Preset Edit |

 $\ensuremath{\,\times\,}$ RV MPI can be operated under the following conditions :

| Probe | Application |
|------------------------|---|
| CA1-7S, CA1-10A,CV1-8A | OB(1 st Fetal Heart, Fetal Heart, 1 st , 2 nd , 3 rd Trimester, NT, |
| EA2-11AR, EA2-11AV, | Biopsy) |
| EV2-12, CMV1-10 | * Operate on PW Mode |

2. Acquire PW Images



| 1 | To take inflow wave | - Scanning plane : Four-chamber view. - Sample volume position : At the level of Tricuspid valves. |
|---|----------------------|--|
| 2 | To take outflow wave | - Scanning plane : 3 vessel and trachea view or RVOT short axis view. - Sample volume position : At the level of the pulmonary valve. |

3. Acquire Inflow and Outflow images







| 1 | Acquire Doppler images | Acquire Inflow and Outflow Doppler image in PW mode then Save respectively. |
|---|------------------------------|---|
| 2 | RV-MPI | Tab [RV MPI] button on Frozen PW screen. |

HERA Z20

RV-MPI™

4. Select images



| 0 | Select an Inflow image | Select an Inflow image from thumbnail list, then move it to top window in dual screen to assign inflow window by using [Set] button. |
|---|-------------------------------|--|
| 2 | Select an Outflow image | Select an Outflow image from thumbnail list, then move it to bottom window in dual screen to assign outflow window by using [Set] button. |
| 3 | Next | Press [Next] button. |



HERA Z20

Confidential

RV-MPI™

5. Select valve clicks (Auto)



HERA Z20

RV-MPI™

5. Select valve clicks(Manual)



6. Result of RV MPI





• TST(ms) : Total Systolic Time.

• ET(ms): Ejection Time.

Results

- ICT(ms): Isovolumetric Contraction Time.
- IRT(ms): Isovolumetric Relaxation Time.
- Mod-MPI : Modified Myocardial Performance Index.

| Result | | |
|--------|-------|--|
| TST | 249ms | |
| ET | 172ms | |
| ICT | 32ms | |
| IRT | 45ms | |
| MPI | 0.448 | |
| | | |

ICT Start, End Point
IRT Start, End Point
You can modify start and End point of ICT by rotating knob on the touch screen.
IRT Start, You can modify start and End point of IRT by rotating knob on the touch screen.

- 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 Z20 V1.00.
- Disclaimer: Some Images in this content were obtained from other system.

SAMSUNG MEDISON CO., LTD.

© 2024 Samsung Medison All Rights Reserved. Samsung Medison reserves the right to modify the design, packaging, specifications, and features shown herein, without prior notice or obligation.