



Improving microvasculature sensitivity and enhance spatial comprehension with 3D Volume data

Tips & Tricks



Clinical Values

I Technical & Clinical Benefits

- Detecting the slow blood flow and allowing high resolution of the flow image with MV-Flow[™] and supporting to construct it as a 3D Volume.
- Able to analyze and observe more detailed relationship between a specific structure and vascularity than a conventional Color 3D.
- Helps to interpret the ultrasound image by supporting a post-volume reconstruction for research purpose.

Clinical Cases & Clinical Applications

1st Fetal Circulation : Ductus venosus



[Color 3D]



[MV-Flow 3D]

Fetal Brain, Pericallosal Artery



[MV-Flow 3D]



Fetal Heart Circulation



[MV-Flow 3D: Bi-Directional]

CX Team/Clinical Insight Lab - This material is reviewed based on HERA W10 V1.03.02

Configuration

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		 Con AA, Dob GL, OB - P. Tolen, Jr. Tolen, Jr. Tolen ED GL, DRG - Adhesio, S. Camolo, General, Renativation, prology-Prostate

Tips & Ticks



MV-Flow[™] Color palette: 8 colors are prepared in 2D Mode.
 → Blue, orange, red and gray colors are provided. Please refer to the below.



02. Ready to go : MV-FlowTM Mode 3D

- ► MV-FlowTM 3D Preset : Placenta, Brain, Abdomen, 1st Trimester
- To take a faster volume acquisition time
 - \rightarrow Reduce and fit the Volume Angle to the structure.



[MV-Flow 3D Ready Mode]

* You may reduce the scan Quality to save a acquisition time : Not usually recommended if you want to maintain a good SNR (Signal to Noise Ratio).

* 3D ROI Size is irrelevant with volume acquisition time.

03. On the MV-Flow[™] 3D Mode

- I. To have a dominant vascular visualization : Quick Change
- → To emphasize a vascular structure visualization quickly, just tab the Surface Max.
- → To decrease the noise and make vessel sharper, increase the Th.Low's index.





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 2. To have a dominant vascular visualization 2: Go to the CrystalVue Flow(Trans) Mode

1 Go to RenderSetup in CrystalVue Flow(Trans) Mode.



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04. Review a details : Ref. Slice

In Rendering manipulation to observe mere

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05. Histogram : Vascularity Index through the VOCAL

① Tab the Histogram in the *VOCAL Mode, then a shell histogram is calculated and displayed on the screen.

(*Whole VOCAL Procedure: Please refer to the Q-Manual)





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