Voluson™ e4D Education

Expanding your knowledge in electronic 4D technology

VCI-A (Volume Contrast Imaging)

VCI-A delivers excellent contrast resolution through thick slice volume of gray scale and color Doppler images.

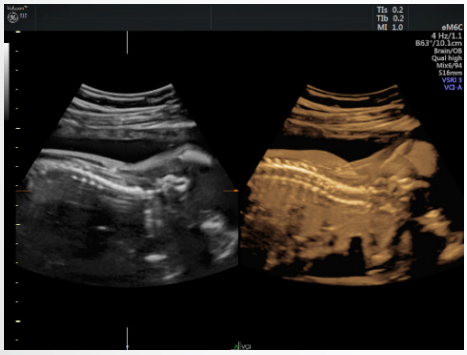
1. Optimize the 2D image
2. Select VCI-A from touch panel or select 4D hard key and select VCI-A from the top of the touch panel
3. If accessed directly from the touch panel, select desired preset from touch panel
4. If accessed from 4D hard key:
   a. Select desired Preset on touch panel and adjust the size of ROI[1] Box to the desired anatomical structure
   b. Select desired slice thickness from the touch panel
   c. Select the Quality setting
   d. Select Start trackball key

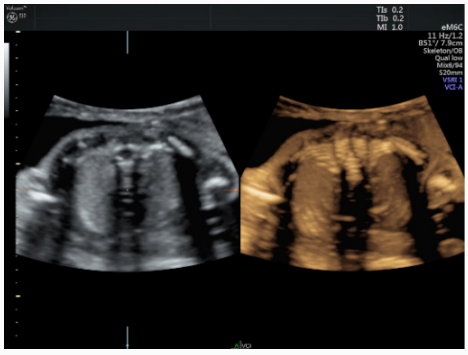
Additional tips

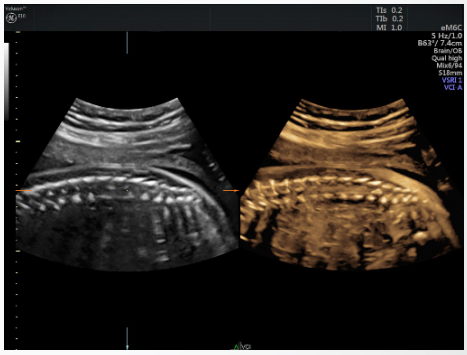
- Change presets while actively scanning to enhance visualization
- Can be viewed in Dual View or as a single image
- May be used with color Doppler or HD-Flow™[2]

Spine

- View in sagittal or transverse to see length of spine, skin line, etc
- Slice thickness 8-12 mm depending on gestational age and scan plane

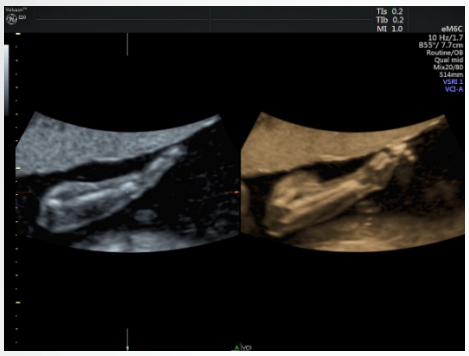
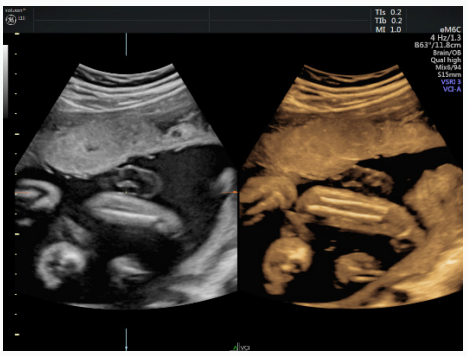






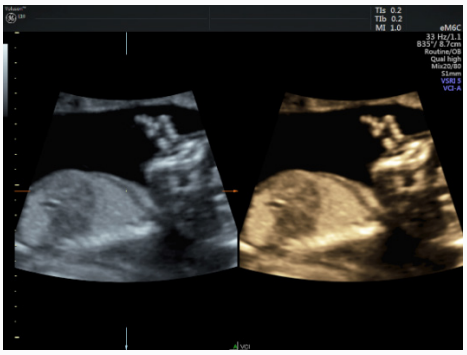
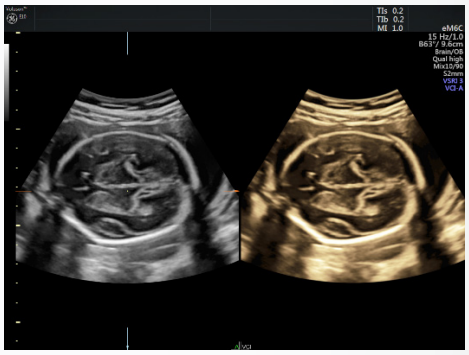
Lower/Upper Extremities

- Excellent tool to see both radius/ulna or tibia/fibula in one image, fingers out of plane, etc.
- Slice thickness 10-20 mm depending on gestational age

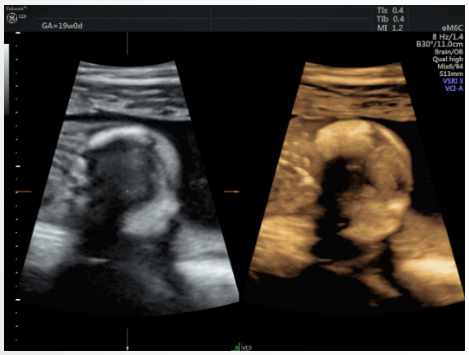
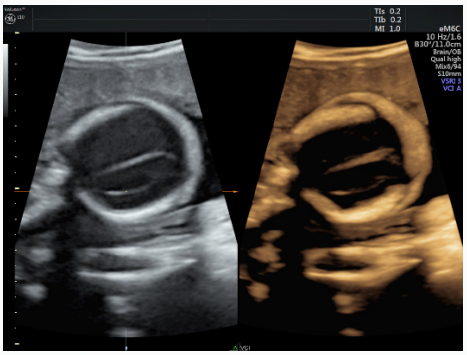
Soft Tissue

- Excellent tool for soft tissue differentiation and border enhancement
- Diaphragm or other soft tissue slice thickness 1-2 mm
- Renal slice thickness 2-3 mm
- Intracranial Anatomy slice thickness 1-2 mm

Cranial Sutures

- Visualize skull sutures quickly and easily
- Slice thickness 12-20 mm

[1] ROI – Region of Interest
[2] Only available on software version EC320 or later

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