## **VIBRANT Quick Steps**

## TiP Training Choices

### Step 1: Select the VIBRANT Protocol from the GE Protocol Library

•Protocol listed under Chest/Thoracic

# Step 2: Prepare and Position the Patient

- •Prepare IV catheter if physician orders contrast
- Prepare injector (power or manual).
- •Patient entry is Prone/ Feet First
- •Choose the appropriate coil configuration (MRI Devices 2\_BREAST)
- •Landmark to the center of the breast
- •Advance patient into scanner

# Step 3: Perform Localizer and ASSET Calibration Scans

- •Select a 3-plane localizer series from the GE protocol library ( 7 Slices in Axial, Coronal and Sagittal planes)
- •[Save], [Prepare], [AutoPrescan], [Scan]
- •Select the ASSET calibration series from the GE protocol
- •Prescribe the axial calibration scanning range to extend past the anatomy by 50%.[Fig. A.}



[Fig. A.]ASSET Calibration scanning range

## Step 4: Prescribe the VIBRANT Mask Acquisition (Pre-Contrast)

•Select the Fast 3DSPGR single-phase series (VIBRANT) from the Prescription Manager

•Prescribe the Graphic Rx for the Sagittal 3D Volume. Prescribe the volume larger than the right to left dimensions of the breasts [Fig. B]



**FYI-** When utilizing ASSET the locs per slab must be a multiple of 4 and create a volume that is greater than 50% of the coil volume.

### Step 5: Prescribe the Bilateral Prescan Volumes

- •Select the "Pre-scan Rx" button on the Graphic Rx screen
- •Shift and click the left mouse key to prescribe a volume on each breast. [Fig. C].

#### •Accept Graphic Rx



[Fig. C] Prescan Volume RX

#### FYI-

- It is not necessary to include all breast tissue in each volume
- $\bullet\mbox{To}$  help ensure precise prescan values take care not to include the heart or lungs.

•[Save], [Prepare to Scan], [Auto Prescan]

## **VIBRANT Quick Steps**

## TiP Training Choices

### Step 6: Optimize Prescan Values For Each Breast Volume

- •Select [Manual Prescan]
- •Select CF Fine (1)
- •Select Volume 1 from the pull down menu (2)
- •Select the Receiver which provides the highest signal for Volume 1 (3)
- •Adjust center frequency for Volume 1 to center on the water peak



- 1-Center Freq. Fine
- 2-Volume Selection Menu
- 3-Receiver Selection Menu
- •Select Volume 2 from the pull down menu (2)
- •Select the Receiver which provides the highest signal for Volume 2 (3)
- •Adjust center frequency for Volume 2 to center on the water peak
- •[Scan]

Important! Do not adjust values for Vol. O. This is a calculated average between volumes 1 and 2.

## **Step 7: Prescribe and Perform Dynamic VIBRANT**

- •Copy Paste the Vibrant Mask Acquisition
- (Single-Phase Acg.)
- Enter Contrast Amount
- Turn on Multi-phase on the imaging options menu
- •On the Multiphase Screen:
  - Manuel Auto Subtraction: ON
  - Phases per Loc. (4-7)
  - Previous Series: ON
  - 🛲 Delay After Acg.- MIN



### •[Save], [Prepare to Scan], [Manual Prescan]

•Important! After selecting Manual Prescan back out immediately. Do not change Prescan values!

- •Begin contrast injection and [Scan] simultaneously
  - **GE** Healthcare



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