Carotid CTA



Overview:

Carotids are easily post-processed using the Vessel Probe tool. This application tracks the centerline of the vessel and produces Curved Planar Reformations. It also creates a Cross Vessel view that displays the lumen area and vessel diameter. The views can be edited, measured, captured and exported.

The Steps:

- Load the data and select the appropriate protocol CTA Carotids.
- **Select** the Vessel Probe tool and deposit a point inside the vessel.
- Add additional vessels by using the Vessel Probe tool.
- **Use** the Extend tool to extend to the Circle of Willis or Aortic Arch.
- Name the vessels.
- Check for accuracy and Edit Centerline.
- **Create** 3D Batch Rotation of vessels with semi-transparent bone.
- **Analyze** the vessel and Manual or Automatic Measurements.
- **Create** and **Export** snapshots and batch reformats.



Carotid CTA – Select the Application



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ViTAL



Carotid CTA – Option: Load Dataset from Gallery Application



Tip: Preview image from the Gallery Tab. If the contrast is not dense enough the vessels will not display well. When this occurs clear the box next to Automatically Remove Bone to restore bone to the image.



Carotid CTA – Vessel Probe



Tip: For best results - Probe **the Internal Carotid** arteries above the bifurcation. Probe the vertebral arteries before they enter the vertebral column. You can use the 2D or 3D images to probe the vessels. For difficult vessels use the Extend tool in shorter segments.



Carotid CTA – Vessel Probe



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Carotid CTA – Centerline Edits





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Carotid CTA – CPR Batch Rotation



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Carotid CTA – 3D Batch Rotation





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Carotid CTA – Manual Stenosis Measurement





Carotid CTA – Automatic Vessel Analysis



Tip: **Remember to take a snapshot**. Only a snapshot can be restored at a later date to continue postprocessing.



Carotid CTA – Snapshots and Batches



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Carotid CTA – Export

Export locations are listed in the Destination section. Choose desired destinations, click Export.

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Summary:

Workflow for Carotid arteries using the Carotid CTA protocol offer a variety of post processing tools for viewing and analysis.

- Use the Vessel Probe tool to investigate vessels.
- **Click** Extend to continue the vessel from the Circle of Willis to the Aortic Arch.
- **Name** each vessel with a right mouse click in the Vessel Management area.
- Edit the Centerline if necessary.
- Create 360-degree Batch Rotations of Vessel Probed arteries for exporting.
- **Create** a 3D Semi-Transparent Batch Rotation.
- Analyze vessels using manual or automatic stenosis calculations.
- **Click** Snapshot to capture images for documentation.
- **Export** to PACS or other destination





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