

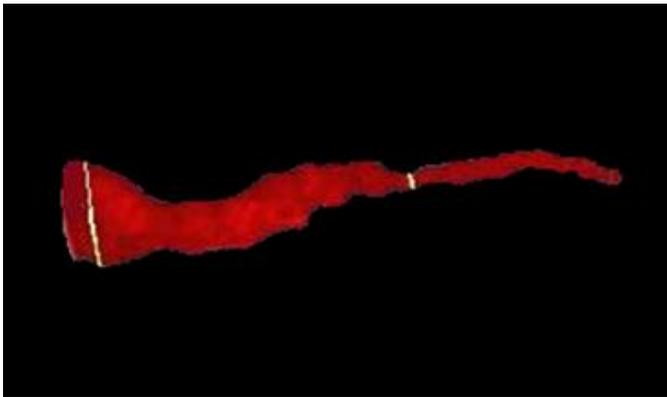


Visualize:Vascular

Automated Luminal Reduction Measurement for Vascular Ultrasound

Salient Imaging uses patented deep learning algorithms to identify the residual lumen in arteries or veins. *Visualize:Vascular*[™] distinguishes more detailed anatomical information than Doppler, color flow or greyscale vascular ultrasound combined.

The vascular duplex ultrasound exam is the first line screening examination to determine patient risk for stroke or vascular disease. The point of performing the vascular exam is to identify the presence of obstructions and classify the level of severity. Duplex results can be hampered by confusing imagery often caused by shadowing, turbulent flow, or other imaging concerns. Doppler measurements can also be impacted by turbulent flow. Sometimes traditional vascular ultrasound exam results are just not that clear.



Visualize:Vascular[™] is not affected by these concerns because its algorithm processes the raw greyscale image gathered as slices through the vessel, similar to MRA or CTA.

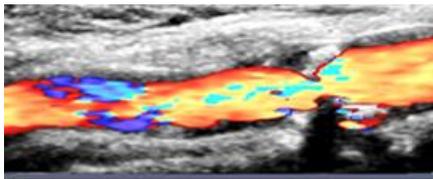
It visualizes the active luminal pathway in 3D and measures true luminal diameter to automatically calculate luminal reduction giving a better understanding of the actual flow and the severity of obstructions so that the lesion can be appropriately classified.

Visualize:Vascular[™] is a completely different standalone procedure separate from the vascular ultrasound exam and is recognized with a distinct CPT code.

- Visualizes the active lumen within a vessel.
- Makes accurate luminal reduction measurements on ultrasound imaging possible.
- For use on carotid, abdominal, extremity arteries and veins.
- Increases diagnostic detail and accuracy.
- Provides a new revenue stream.
- Compatible with DICOM ultrasound machines.

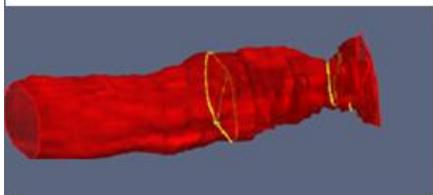
In the proximal internal carotid artery (pICA) shown below, the color-flow ultrasound indicates that there is an obstruction and some turbulence after the obstruction. Doppler measures a slightly elevated velocity in the artery. However, the measurement location is a bit far from the area of concern which can lead to lower velocity measurements. The information from the vascular exam leads to the diagnosis of a moderate concern with no immediate action and a recommendation for a 6 month follow up.

Visualize:Vascular[™] renders the entire segment in 3D. The view from the same perspective as the color-flow image shows the same level of concern. 3D shows can be turned to view the 3D rendering from any perspective. The rear perspective shows that the obstruction is much more concerning. The luminal reduction is calculated at >70%, a very severe concern leading to a diagnostic recommendation for immediate follow up. CTA confirms the *Visualize:Vascular*[™] results.



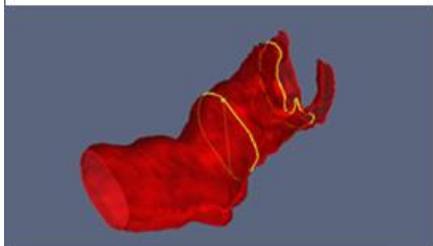
Color Flow
Ultrasound

The purpose of the vascular exam is to identify disease and classify the extent of the disease.



Visualize:Vascular
3D Rendering
(view from same perspective
as color flow ultrasound)

In this example, vascular ultrasound identifies the presence of disease but is hampered in classifying severity.



Visualize:Vascular
3D Rendering
(view from rear perspective)

Visualize:Vascular[™] analyzes the complete vessel segment independent of the Duplex exam, providing an in depth look at the active lumen and automatically calculates measurements beyond the traditional vascular ultrasound exam.

Visualize:Vascular[™] should be performed in conjunction with vascular ultrasound.

Visualize:Vascular[™] is software provided as a fee-per-use service. *Visualize* generates results which can be sent to PACS, MIMPS, or reporting systems. Images are acquired, uploaded via Salient's HIPAA secure encrypted uploader. Salient's expert technologists process the study to obtain the 3D results and send them to PACS or reporting systems. *Visualize:Vascular*[™] has US FDA clearance.

3D Rendering can help physicians and clinicians better understand complex situations such as partial occlusions, tortuosity and other conditions. This information is useful in classifying concerns and tracking patients with vascular conditions. *Visualize:Vascular*[™] is a separate diagnostic procedure in addition to the vascular ultrasound exam for use by all physicians monitoring vascular health.

