

Zilkha Radiology's introduction to MR angiography

MR angiography (MRA) is a test performed with an MRI scanner to study blood vessels. MRA is used to evaluate blood vessels of the brain, neck, chest, abdomen, pelvis and extremities. MR angiography can detect blood vessels that are abnormally dilated (aneurysm), abnormally narrowed (stenosis) or occluded (completely blocked off). MRA can detect arteriovenous malformations (AVM.) MRA is also used in trauma, mapping out a tumor's blood vessels before surgery, kidney transplant planning and aortic dissection (tear). MRA can be performed with or without contrast. No radiation is used in MRA.

Image 1 shows an MRA of the Circle of Willis in the brain done without injection of dye. You can see a bulge representing an anterior communicating artery aneurysm. Aneurysms are dangerous because they can leak or rupture. They are treated with clipping or coiling.

Image 2 shows an arteriovenous malformation (AVM) done without the injection of dye. An AVM is an abnormal communication between arteries and veins. AVM's are danger-

ous because they can bleed potentially causing headaches, seizures, and even strokes. If an AVM is discovered, it can be treated before it causes complications.

The highest quality scanner for MRA is the 3.0 Tesla MRI scanner. 3.0 Tesla MRI has twice the strength of the 1.5 Tesla MRI. Images from a 3.0 Tesla MRI provide exquisite detail. There are only a handful of 3.0 Tesla MRI's on Long Island. At Zilkha Radiology, we have 3.0 Tesla MRI's in each of our offices. We do not have any lower strength scanners. We are the only 100 percent 3.0 Tesla radiology practice on Long Island. All our radiologists are Board Certified with subspecialty training in all aspects of radiology.

Dr. Albert Zilkha served as a Professor of Clinical Radiology at the State University of New York at Stony Brook School of Medicine. The offices in West Islip and East Islip are open Monday through Friday from 7am to 8pm and on Saturday from 8am to 3pm. There is plenty of parking in both offices. Call 631-277-1600 or visit www.zilkharadiology.com.



IMAGE 1:
Anterior
Communicating
Artery Aneurysm

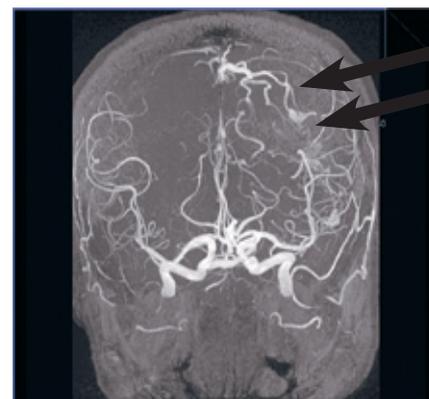


IMAGE 2:
Arteriovenous
Malformation