# Case Report: Multilobulated Hypothenar Mass

Randolph Otto, M.D.
*Seattle Children's Hospital, Department of Radiology, Seattle, WA, USA*

## Patient history

4-year-old* female undergoing MR examination of a left-hand mass.
*The safety of imaging fetuses/infants has not been established.

## Sequence details

Images have been acquired using our 1.5T MAGNETOM Avanto and the extremity coil.

MR Angiography (MRA) using 5 ml Magnevist administered IV.
TE 1.41 ms, TR 3.12 ms, FOV 300 x 300, matrix 384 x 384, PAT factor 2.0, partition time 3.92 sec, acquisition plane coronal.

## Imaging Findings

There is a multilobulated 2.8 x 3.0 x 1.9 cm STIR hyperintense / T1 isointense mass within the medial palmar aspect of the hand. It exhibits mass effect with displacement of the $4^{th}$ and $5^{th}$ digit flexor tendons and the ulnar artery laterally. Dynamic MRA demonstrates no large arteries or early draining veins. No abnormal tangle of vessels.
**Impression**: Multilobulated hypothenar mass, consistent with a slow/low flow vascular malformation such as a mixed venous/lymphatic malformation.

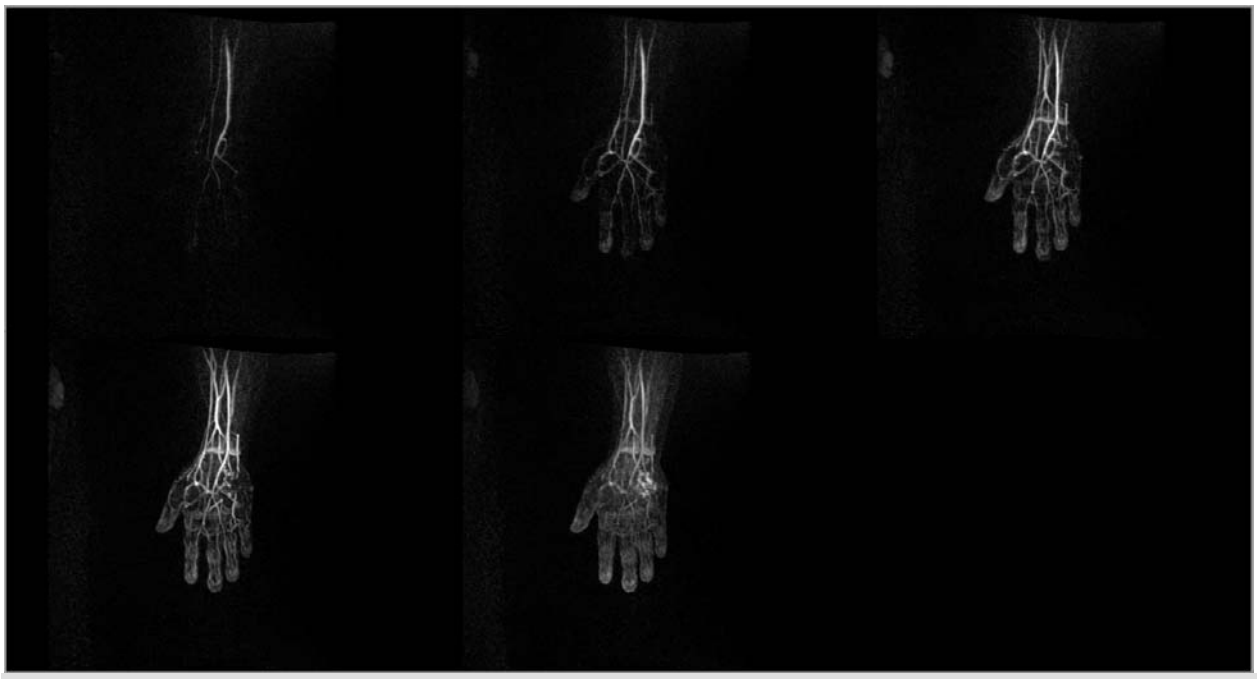

Figure 1: 5 of 54 images showing the major anatomic features visible in the *syngo* TWIST time-series.

## Results and Discussion

The *syngo* TWIST acquisition provides outstanding flexibility in protocol design for characterization of soft tissue pathology.