

## Supplemental Material

**Table 1: MR Technologist Quality Improvement Survey**

We are evaluating the work-flow and use of vessel wall MR imaging studies at Penn. To improve implementation processes and support the MR technologists, we seek to identify challenges to proactively address.	
Question Stem	Answer Choices
Have you scanned a patient for a Vessel Wall MR imaging exam before?	Yes No What is that?
Is it easy to find the specific VWI protocol on the MR console interface?	Yes No
Is it easy to scan a patient ordered for vessel wall MR imaging? (Click all that apply)	Yes- VWI Brain No- VWI Brain Yes- VWI Neck No- VWI Neck
If you selected No: What is most challenging about scanning VWI?	[Free text]
Do you find the online vessel wall MR imaging protocol tipsheets/instructions helpful?	Yes No Where are they online?
Please provide any feedback on the tipsheets (e.g., length, clarity, what remains unclear)	[Free text]
I understand why vessel wall MR imaging exams are ordered and how it adds value to patient care.	Strongly Agree Somewhat Agree Neither Agree or Disagree Somewhat Disagree Strongly Disagree
<p>Please share any comments or challenges that can help the MR technologists with the work-flow, understand VWI &amp; encourage engagement for vessel wall MR imaging cases.</p> <p>(For example: identifying VWI cases, protocol selection, scan times, neuroradiologist support, tipsheet availability/clarity, education/understanding clinical indication, scheduling).</p>	[Free text]

**Table 2: Ordering Clinician Quality Improvement Survey**

We are evaluating the use and usefulness of vessel wall MR imaging studies at Penn. To improve implementation processes and facilitate end-user gains, we seek to identify barriers to proactively address.	
Question Stem	Answer Choices
Have you ordered a vessel wall MR imaging exam before?	Yes No What is that?
Do you find it easy to order a vessel wall MR imaging exam?	Yes No I do not know how to order a vessel wall MR imaging exam.
Vessel wall MR imaging has changed and helped my clinical diagnostic confidence for diagnosing and managing my patients	Strongly Agree Somewhat Agree Neither Agree or Disagree Somewhat Disagree Strongly Disagree
Please share any comments that may help you order or use vessel wall MR imaging for your patients.  (For example: exam name/type (brain, neck), EPIC interface, how to order, when to order/indications, interpretations, available imaging sites for inpatients vs outpatients, scheduling).	[Free text]