Online Supplement

Online Supplemental Table.
ASNR vessel wall imaging survey
Extracranial Carotid Vessel Wall Imaging Survey Section
*
18. Does your institution perform extracranial carotid vessel wall MRI?
Yes
○ No

ASNR vessel wall imaging survey

Extracranial Carotid Vessel Wall Imaging Survey Section

Siemens 1.5T	Philips 3T
Siemens 3T	GE 1.5T
Philips 1.5T	GE 3T
Other (please specify)	
your institution performs carotid v	essel wall MRI, on average how often?
Only a handful of times ever	
Rarely (once every couple months)	
Occasionally (1-2 times per month)	
Consistently (once per week)	
Frequently (at least 2 times per week)	
Other (please specify)	
•	being performed as (answer all that apply)
A stand alone exam ordered by clinicians	ums ordered by clinicians
A stand alone exam ordered by clinicians An add-on to MRA neck or MR stroke exa	ins ordered by clinicians
An add-on to MRA neck or MR stroke exa	
An add-on to MRA neck or MR stroke exa	t diologist from a different MRI study ordered from the clinicians
An add-on to MRA neck or MR stroke exa An add-on from the protocoling radiologis A stand-alone exam protocoled by the rad An add-on from the technologist scanning	t liologist from a different MRI study ordered from the clinicians
An add-on to MRA neck or MR stroke exa An add-on from the protocoling radiologis A stand-alone exam protocoled by the rad An add-on from the technologist scanning	t liologist from a different MRI study ordered from the clinicians I the patient

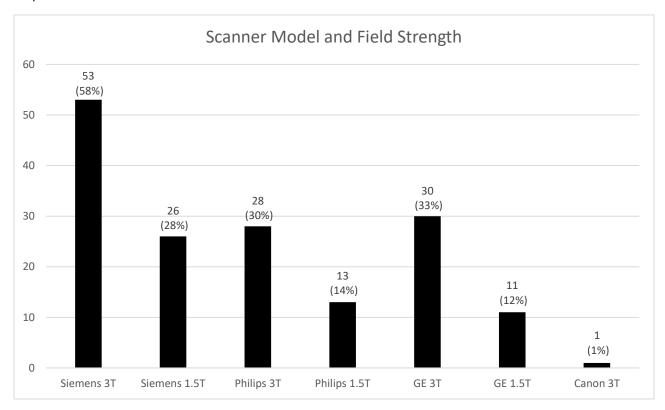
apply	
1 1	
	Research
	Detection of atherosclerotic plaque hemorrhage
	Additional atherosclerotic plaque characterization for plaque vulnerability assessment
	Evaluation of large artery inflammatory vasculopathies
	Elucidation of cause of cryptogenic stroke
	Dissection characterization and/or detection
	Other (please specify)
23. C	oes your institution have a research agreement with an MRI vendor?
	Yes
	No
0	Not sure
	Yes No
(
	Not sure
	Not sure las the interaction with your vendor led to implementation of an effective carotid vessel wall imaging col? (If yes, select the vendor below) (choose all that apply) GE
	Not sure las the interaction with your vendor led to implementation of an effective carotid vessel wall imaging col? (If yes, select the vendor below) (choose all that apply) GE Philips
	las the interaction with your vendor led to implementation of an effective carotid vessel wall imaging col? (If yes, select the vendor below) (choose all that apply) GE Philips Siemens
	Not sure las the interaction with your vendor led to implementation of an effective carotid vessel wall imaging col? (If yes, select the vendor below) (choose all that apply) GE Philips
	las the interaction with your vendor led to implementation of an effective carotid vessel wall imaging col? (If yes, select the vendor below) (choose all that apply) GE Philips Siemens
	las the interaction with your vendor led to implementation of an effective carotid vessel wall imaging col? (If yes, select the vendor below) (choose all that apply) GE Philips Siemens
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	las the interaction with your vendor led to implementation of an effective carotid vessel wall imaging col? (If yes, select the vendor below) (choose all that apply) GE Philips Siemens
	las the interaction with your vendor led to implementation of an effective carotid vessel wall imaging col? (If yes, select the vendor below) (choose all that apply) GE Philips Siemens

26. H	low has your interaction been with the vendors in developing a protocol? (Answer all that apply)
	Excellent, they provided a solution that has worked for us
	There were initial difficulties but now we have a solution
	We are still looking for an adequate solution
	Vendor contribution has been somewhat limited
	Other (please specify)
	Curer (preduce appears)
	oes your institution perform 2D, 3D or combined carotid vessel wall imaging protocols?
	2D only
	3D only
	Combined protocols
8. W	Why do you use the specific protocol that you use? (2D, 3D or both) (choose all that apply)
	Technical limitations/availability
	Based on guidance from the literature, lectures attended or study groups
	Time constraints
	Other (please specify)
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9. W	Vas this protocol provided by (choose all that apply):
	The vendor
	Developed in-house
	Provided from another institution
	Not sure
	Other (please specify)

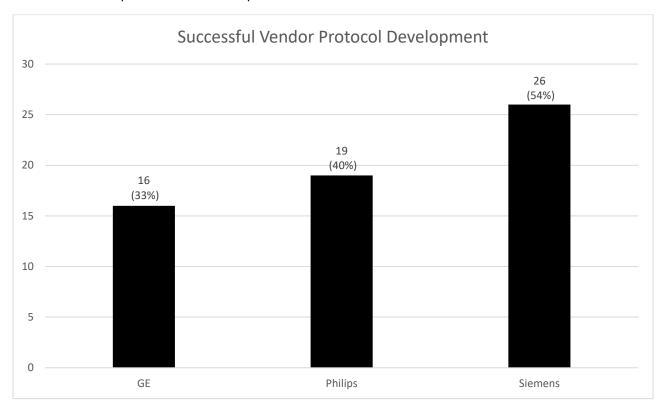
	T1-weighted VWI sequence
	Post-contrast T1-weighted VWI
	T2-weighted VWI
	3D GRE sequence (MPRAGE, SPGR, etc.)
	3D SNAP
	TOF MRA
	Contrast enhanced MRA
	Other (please specify)
31 If 9	your institution is not performing carotid vessel wall imaging (respond to this question only if you are
	carotid VWI), what barriers does your institution face for implementation? (choose all that apply)
	Lack of clinician interest
	Lack of radiologist time/interest to provide input for protocol development
	Lack of vendor/technical support to develop protocols
	Limited personal knowledge of applications/value
	Limited expertise of interpretation
	Long scan times limit clinical feasibility at your institution
	Patient population at your institution would not benefit from this technique
	Lack of standardized protocols
	Other (please specify)

33. Have your clinicians approached the radiologists in your group in regards to performing carotid vessel wall
imaging? If so, which clinician groups? (choose all that apply)
Rheumatology
Stroke neurology
Neurosurgery
Psychiatry
Vascular Surgery
Cardiology
No clinical services have approached radiology about development of IVW
Unsure
Other (please specify)
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34. In your opinion, has carotid vessel wall imaging influenced patient management at your institution?
Yes
○ No
O Not sure
35. For questions about the survey, please contact XXX.

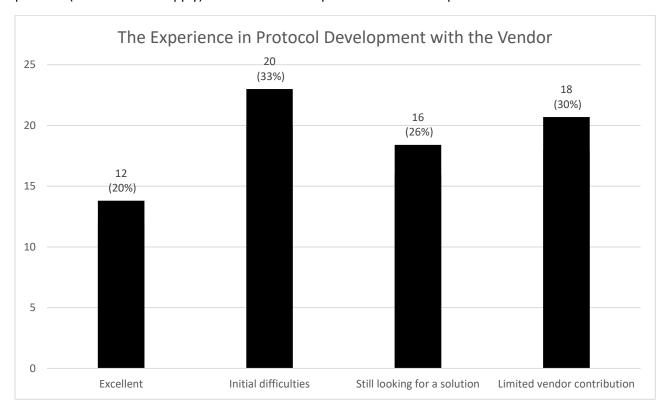
Online Supplemental Figure. Question: Indicate the MRI system upon which carotid vessel wall imaging scans are performed at your institution (choose all that apply). There were 92 respondents with 162 responses.



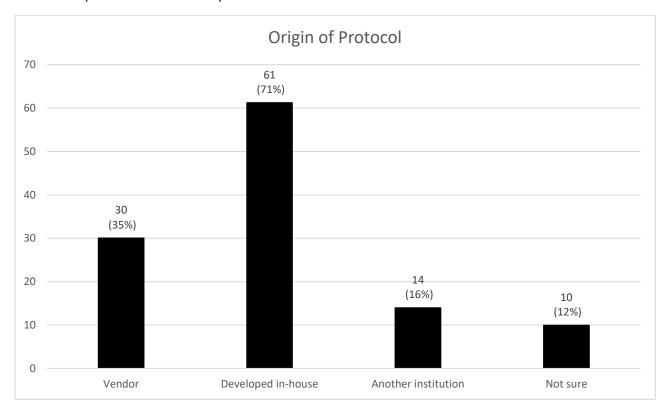
Online Supplemental Figure. Question: Has the interaction with your vendor led to implementation of an effective carotid vessel wall imaging protocol (If yes, select the vendor below) (choose all that apply)? There were 48 respondents with 61 responses.



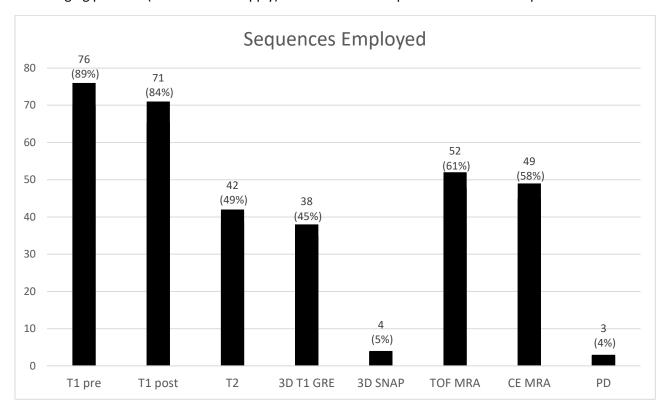
Online Supplemental Figure. Question: How has your interaction been with the vendors in developing a protocol (Answer all that apply)? There were 61 respondents with 66 responses.



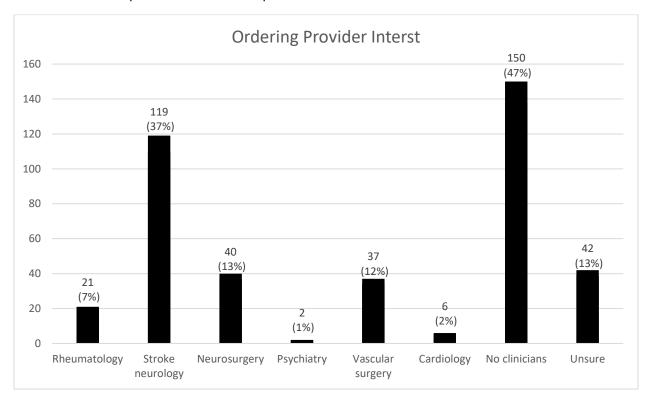
Online Supplemental Figure. Question: Was this protocol provided by (choose all that apply). There were 86 respondents with 115 responses.



Online Supplemental Figure. Question: What sequences do you employ as part of your carotid vessel wall imaging protocol (choose all that apply)? There were 85 respondents with 335 responses.



Online Supplemental Figure. Question: Have your clinicians approached the radiologists in your group in regards to performing carotid vessel wall imaging? If so, which clinician groups (choose all that apply)? There were 320 respondents with 417 responses.



Online Supplemental Table. Distribution and pattern of responses for Question #31.

0 responses	n	Percent
Total	53	17.40%

1 response	n	Percent
No clinician interest	26	8.60%
No vendor/technical support to develop protocols	7	2.30%
patient population would not benefit from this		
technique	7	2.30%
Long scan times limit clinical feasibility	5	1.60%
No standardized protocol	5	1.60%
Limited expertise of interpretation	5	1.60%
Limited personal knowledge of applications/value	4	1.30%
No radiologist time/interest for protocol development	3	1.00%
No coverage by local insurance	1	0.33%
Total	63	20.70%

2 responses	n	Percent
No clinician interest	9	2.96%
No radiologist time/interest for protocol development		
No clinician interest	5	1.64%
Limited personal knowledge of applications/value		
No clinician interest	5	1.64%
No vendor/technical support to develop protocols		
No clinician interest	4	1.32%
Long scan times limit clinical feasibility		
No clinician interest	3	1%
Limited expertise of interpretation		
Limited personal knowledge of applications/value	3	1%
No evidence of benefit		
No vendor/technical support to develop protocols	2	0.66%
No standardized protocol		
No radiologist time/interest for protocol development	2	0.66%
No vendor/technical support to develop protocols		
Limited personal knowledge of applications/value	2	0.66%
No standardized protocol		
No radiologist time/interest for protocol development	2	0.66%
Long scan times limit clinical feasibility		
Limited personal knowledge of applications/value	1	0.33%
Limited expertise of interpretation		
Limited expertise of interpretation	1	0.33%
No standardized protocol		
No vendor/technical support to develop protocols	1	0.33%
Limited personal knowledge of applications/value		
No vendor/technical support to develop protocols	1	0.33%
Limited expertise of interpretation		
Total	41	13.50%

	ı	
5 responses	n	Percent
No clinician interest	8	2.63%
No radiologist time/interest for protocol development		
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
No standardized protocol		
No clinician interest	7	2.30%
No radiologist time/interest for protocol development		
No vendor/technical support to develop protocols		
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
No clinician interest	3	1%
No radiologist time/interest for protocol development		
No vendor/technical support to develop protocols		
Long scan times limit clinical feasibility		
No standardized protocol		
No clinician interest	3	1%
No radiologist time/interest for protocol development		
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
Long scan times limit clinical feasibility		
No clinician interest	2	0.66%
No vendor/technical support to develop protocols		
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
No standardized protocol		
No clinician interest	2	0.66%
No radiologist time/interest for protocol development		
No vendor/technical support to develop protocols		
Limited expertise of interpretation		
No standardized protocol		
No radiologist time/interest for protocol development	2	0.66%
No vendor/technical support to develop protocols		
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
No standardized protocol		
No clinician interest	1	0.33%
No vendor/technical support to develop protocols		
Limited expertise of interpretation		
Long scan times limit clinical feasibility		
No standardized protocol		
No radiologist time/interest for protocol development	1	0.33%
No vendor/technical support to develop protocols		
Limited expertise of interpretation		
Long scan times limit clinical feasibility		
No standardized protocol		
	•	

3 responses	n	Percent
No clinician interest	7	2.30%
No radiologist time/interest for protocol development		
No vendor/technical support to develop protocols		
No clinician interest	6	1.97%
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
No clinician interest	4	1.32%
Limited expertise of interpretation		
No standardized protocol		
No clinician interest	3	1%
Limited personal knowledge of applications/value		
No standardized protocol		
No radiologist time/interest for protocol development	3	1%
No vendor/technical support to develop protocols		
Limited personal knowledge of applications/value		
No vendor/technical support to develop protocols	3	1%
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
No clinician interest	2	0.66%
No vendor/technical support to develop protocols		
Long scan times limit clinical feasibility		
No radiologist time/interest for protocol development	2	0.66%
No vendor/technical support to develop protocols		
Limited expertise of interpretation		
No vendor/technical support to develop protocols	2	0.66%
Limited expertise of interpretation		
No standardized protocol		
No radiologist time/interest for protocol development	1	0.33%
Long scan times limit clinical feasibility		
No standardized protocol		
No clinician interest	1	0.33%
No vendor/technical support to develop protocols		
Limited personal knowledge of applications/value		
Limited personal knowledge of applications/value	1	0.33%
Long scan times limit clinical feasibility		
No standardized protocol		
No clinician interest	1	0.33%
No radiologist time/interest for protocol development		
No standardized protocol		
No vendor/technical support to develop protocols	1	0.33%
Limited personal knowledge of applications/value		
No standardized protocol		
No radiologist time/interest for protocol development	1	0.33%
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
No clinician interest	1	0.33%
No radiologist time/interest for protocol development		

No clinician interest	1	0.33%
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
Long scan times limit clinical feasibility		
No standardized protocol		
No radiologist time/interest for protocol development	1	0.33%
No vendor/technical support to develop protocols		
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
Long scan times limit clinical feasibility		
No clinician interest	1	0.33%
No radiologist time/interest for protocol development		
Limited expertise of interpretation		
Long scan times limit clinical feasibility		
No standardized protocol		
Total	32	10.53%

6 responses	n	Percent
No clinician interest	6	1.97%
No radiologist time/interest for protocol development		
No vendor/technical support to develop protocols		
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
No standardized protocol		
No clinician interest	5	1.64%
No radiologist time/interest for protocol development		
No vendor/technical support to develop protocols		
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
Long scan times limit clinical feasibility		
No clinician interest	2	0.66%
No vendor/technical support to develop protocols		
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
Long scan times limit clinical feasibility		
No standardized protocol		
No clinician interest	1	0.33%
No radiologist time/interest for protocol development		
No vendor/technical support to develop protocols		
Limited personal knowledge of applications/value		
Limited expertise of interpretation patient population would not benefit from this technique		
No clinician interest	1	0.33%
No radiologist time/interest for protocol development	_	0.3370
No vendor/technical support to develop protocols		
Limited expertise of interpretation		
Long scan times limit clinical feasibility		
No standardized protocol		

Limited expertise of interpretation		
No clinician interest	1	0.33%
Limited personal knowledge of applications/value patient population would not benefit from this technique		
No radiologist time/interest for protocol development	1	0.33%
Limited expertise of interpretation		
No standardized protocol		
No radiologist time/interest for protocol development	1	0.33%
No vendor/technical support to develop protocols		
Long scan times limit clinical feasibility		
No clinician interest	1	0.33%
No radiologist time/interest for protocol development		
Limited personal knowledge of applications/value		
Limited personal knowledge of applications/value	1	0.33%
Limited expertise of interpretation		
Long scan times limit clinical feasibility		
No clinician interest	1	0.33%
Long scan times limit clinical feasibility		
No standardized protocol		
No clinician interest	1	0.33%
Limited expertise of interpretation patient population would not benefit from this technique		
No vendor/technical support to develop protocols	1	0.33%
Long scan times limit clinical feasibility		
No standardized protocol		
Total	47	15.46%

4 responses	n	Percent
No clinician interest	13	4.28%
No radiologist time/interest for protocol development		
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
No clinician interest	4	1.32%
No radiologist time/interest for protocol development		
No vendor/technical support to develop protocols		
No standardized protocol		
No clinician interest	2	0.66%
No radiologist time/interest for protocol development		
No vendor/technical support to develop protocols		
Limited expertise of interpretation		
No clinician interest	2	0.66%
No radiologist time/interest for protocol development		
No vendor/technical support to develop protocols		
Long scan times limit clinical feasibility		
No clinician interest	2	0.66%
No radiologist time/interest for protocol development		

No radiologist time/interest for protocol development	1	0.33%
No vendor/technical support to develop protocols		
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
Long scan times limit clinical feasibility		
No standardized protocol		
Total	16	5.26%

7 responses	n	Percent
No clinician interest	5	1.64%
No radiologist time/interest for protocol development		
No vendor/technical support to develop protocols		
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
Long scan times limit clinical feasibility		
No standardized protocol		
No radiologist time/interest for protocol development	1	0.33%
No vendor/technical support to develop protocols		
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
Long scan times limit clinical feasibility		
patient population would not benefit from this		
technique		
No standardized protocol		
Total	6	1.97%

8 responses	n	Percent
No clinician interest	6	1.97%
No radiologist time/interest for protocol development		
No vendor/technical support to develop protocols		
Limited personal knowledge of applications/value		
Limited expertise of interpretation		
Long scan times limit clinical feasibility		
patient population would not benefit from this		
technique		
No standardized protocol		
Total	6	1.97%

Long scan times limit clinical feasibility		
No radiologist time/interest for protocol development	2	0.66%
No vendor/technical support to develop protocols		
imited expertise of interpretation		
No standardized protocol		
No radiologist time/interest for protocol development	2	0.66%
No vendor/technical support to develop protocols		
imited personal knowledge of applications/value		
imited expertise of interpretation		
No vendor/technical support to develop protocols	2	0.66%
imited personal knowledge of applications/value		
imited expertise of interpretation		
No standardized protocol		
No clinician interest	1	0.33%
imited personal knowledge of applications/value		
imited expertise of interpretation		
ong scan times limit clinical feasibility		
No clinician interest	1	0.33%
No radiologist time/interest for protocol development		
ong scan times limit clinical feasibility		
No evidence of benefit		
No clinician interest	1	0.33%
imited personal knowledge of applications/value		
imited expertise of interpretation		
No standardized protocol		
No clinician interest	1	0.33%
No radiologist time/interest for protocol development		
No vendor/technical support to develop protocols		
imited personal knowledge of applications/value		
No clinician interest	1	0.33%
No vendor/technical support to develop protocols		
imited personal knowledge of applications/value		
ong scan times limit clinical feasibility		
No clinician interest	1	0.33%
No vendor/technical support to develop protocols		
imited personal knowledge of applications/value		
imited expertise of interpretation		
No clinician interest	1	0.33%
No radiologist time/interest for protocol development		
imited personal knowledge of applications/value		
No standardized protocol		
No radiologist time/interest for protocol development	1	0.33%
imited expertise of interpretation		
ong scan times limit clinical feasibility		
No standardized protocol		
No radiologist time/interest for protocol development	1	0.33%
imited personal knowledge of applications/value		
innica personal knowledge of applications, value		

No standardized protocol		
No radiologist time/interest for protocol development	1	0.33%
No vendor/technical support to develop protocols		
Limited expertise of interpretation		
Long scan times limit clinical feasibility		
Total	39	12.83%