

## Supplementary

**Table S1** Sensitivity and specificity of REACT for assessment of extracranial carotid artery stenosis for all readers and overall using CE-MRA as reference standard

Readers	Sensitivity (%)	Specificity (%)
All		
Reader 1	88.4 (95% CI: 78.4–94.9)	93.6 (95% CI: 88.2–97.0)
Reader 2	90.1 (95% CI: 80.7–95.9)	97.0 (95% CI: 92.6–99.2)
Reader 3	91.0 (95% CI: 81.5–96.6)	95.1 (95% CI: 90.1–98.0)
Overall	89.8 (95% CI: 84.9–93.6)	95.2 (95% CI: 92.7–97.1)
Clinically relevant stenosis ( $\geq 50\%$ )		
Reader 1	92.9 (95% CI: 76.5–99.1)	95.2 (95% CI: 83.8–99.4)
Reader 2	93.9 (95% CI: 79.8–99.3)	95.2 (95% CI: 83.8–99.4)
Reader 3	93.8 (95% CI: 79.2–99.2)	97.1 (95% CI: 85.1–99.9)
Overall	93.5 (95% CI: 86.5–97.6)	95.8 (95% CI: 90.4–98.6)

CE-MRA, contrast-enhanced magnetic resonance angiography; CI, confidence interval; REACT, relaxation-enhanced angiography without contrast and triggering.

**Table S2** Numbers of stenosis found per grade using CE-MRA and REACT for all readers and overall. Grade 2:  $<50\%$ , grade 3:  $50\text{--}69\%$ , grade 4:  $\geq 70\text{--}99\%$ , grade 5: occlusion

Stenosis	Reader 1	Reader 2	Reader 3	Overall
REACT				
Grade 2	43	40	37	40.0
Grade 3	15	15	10	13.3
Grade 4	8	12	15	11.6
Grade 5	5	4	6	5.0
CE-MRA				
Grade 2	40	45	35	40.0
Grade 3	15	14	15	14.7
Grade 4	7	12	12	10.3
Grade 5	6	4	5	5.0

CE-MRA, contrast-enhanced magnetic resonance angiography; CI, confidence interval; REACT, relaxation-enhanced angiography without contrast and triggering.