

ARIA MRI Protocol

ASNR Recommended Reporting Framework



AD therapy enrollment template¹



SPECIFICATIONS

Description	Baseline imaging for cognitive impairment or assessment prior to initiating amyloid-targeting therapy
Examination	MRI of the brain without contrast
History	[Memory loss] [Describe duration, main symptoms, and biomarkers]
Blood sensitive sequence Potential to use both depending on institution	[SWI] or [GRE/T2*]
Field strength	[3T] or [1.5T]
Comparison	[None Available]



FINDINGS

Total microhemorrhages	[Number] [Describe location(s), deep vs lobar]
Superficial siderosis	[None] or [1 focal area of superficial siderosis] or [2 focal areas of superficial siderosis] or [>2 focal areas of superficial siderosis] [general description of other acute or chronic findings]



IMPRESSION

	Total microhemorrhages [0] or [1-4] or [5-9] or [≥10]. Superficial siderosis is [not detected] or [present]. [Other impression points]
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Abbreviations: ARIA=amyloid-related imaging abnormalities; GRE=gradient recalled echo; SWI= susceptibility-weighted imaging; T= Tesla; T2=T2-weighted image.
Reference: 1. ASNR. https://www.asnr.org/wp-content/uploads/2023/07/AJNR_ARIA_white_paper_templates_20230713.pdf [Accessed November 2024].

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AD therapy monitoring template



SPECIFICATIONS

Description	Follow up imaging for patients undergoing treatment with an amyloid-targeting therapy
Examination	MRI of the brain without contrast
History	If information is available: [Include agents, doses received, date of last dose, and symptoms if present]
Blood sensitive sequence Potential to use both depending on institution	[SWI] or [GRE/T2*]
Field strength	[3T] or [1.5T]
Comparison	[None Available]



FINDINGS

Assessment for ARIA-E	
Prior FLAIR hyperintensities	[No prior exam available for adequate comparison] or [Yes] If yes: [Describe location(s), extent (cm), and change]
New/incident FLAIR hyperintensities	[No] or [Yes] [Describe location(s) and extent (cm)]
Total current regions of FLAIR hyperintensities	[None] or [1] or [>1]

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Abbreviations: ARIA-E = Amyloid Related Imaging Abnormalities-Edema/Effusion; ARIA-H = Amyloid Related Imaging Abnormalities-Hemosiderin deposits; FLAIR = Fluid-Attenuated Inversion Recovery; GRE = Gradient Recalled Echo; MRI = Magnetic Resonance Imaging. SWI = Susceptibility Weighted Imaging.
Reference: 1. ASNR. https://www.asnr.org/wp-content/uploads/2023/07/AJNR_ARIA_white_paper_templates_20230713.pdf [Accessed November 2024]. 2. Cogswell PM et al. Am J Neurol. 2022;43:e19-35.

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Assessment for ARIA-H

Microhemorrhages at pre-treatment baseline



[0] or [1-4] or [5-9] or [≥ 10]
If present: [Describe locations, image, and slice number]

Prior treatment emergent microhemorrhages



[No prior treatment monitoring exam available for adequate comparison] or
[Number of definite microhemorrhages present on prior monitoring exam]
If present: [Describe locations]

New microhemorrhages



[Number of definite new microhemorrhages since prior exam]
If present: [Describe locations]

Total treatment emergent microhemorrhages = prior treatment emergent + new microhemorrhages



[0] or [1-4] or [5-9] or [≥ 10]

Prior treatment emergent siderosis



[No prior exam available for adequate comparison] or
[Number of prior focal areas of superficial siderosis]

New siderosis



[Number of new focal area of superficial siderosis]

Total treatment emergent focal areas of superficial siderosis



[1 focal area of superficial siderosis] or
[2 focal areas of superficial siderosis] or
[>2 focal areas of superficial siderosis]

Impression



Since [Date of prior]:
[Unchanged] or [Increased] or [Decreased] findings of
[ARIA-E] or [ARIA-H microhemorrhage] or [ARIA-H superficial siderosis]
most notable in [Area or areas of the brain with the greatest change]

Findings for:
[No] or [Mild] or [Moderate] or [Severe] ARIA-E
[No] or [Mild] or [Moderate] or [Severe] ARIA-H microhemorrhages
[No] or [Mild] or [Moderate] or [Severe] ARIA-H related siderosis

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