

ACR-ASNR-SPR Practice Parameter for the Performance of Computed Tomography Angiography (CTA) of the Head and Neck.

Title: ACR-ASNR-SPR Practice Parameter for the Performance of Computed Tomography Angiography (CTA) of the Head and Neck.

Publication year: 2026

Journal: AJNR. American journal of neuroradiology

Authors: From University of Virginia Health System, Radiology & Medical Imaging.

Society: American College of Radiology

Origin country: United States

Target countries: United States

DOI: 10.3174/ajnr.A9107

PMID: 41748437

Source: <https://pubmed.ncbi.nlm.nih.gov/41748437/>

AJNR Am J Neuroradiol AJNR Am J Neuroradiol 3743 ajnr 8003708 AJNR AJNR: American Journal of Neuroradiology 0195-6108 1936-959X American Society of Neuroradiology PMC12964475 PMC12964475.1 12964475 12964475 41748437 10.3174/ajnr.A9107 25-12113 1 Health Policies/Quality Improvement/Evidence-Based Neuroimaging ACR–ASNR–SPR Practice Parameter for the Performance of Computed Tomography Angiography (CTA) of the Head and Neck Joyner David A. a Isikbay Masis b Lin Doris D.M. c Lasiecka Zofia M. d Maloney John A. e Narayanan Srikala f Nemeth Alexander J. g Ormsby Jacob h Powers Andria M. i Radhakrishnan Rupa j Segovis Colin k Singhal Aparna l Amodio John m Shah Lubdha M. n a From University of Virginia Health System, Radiology & Medical Imaging b University of California, San Francisco, Department of Radiology and Biomedical Imaging c Johns Hopkins University School of Medicine, Russell H. Morgan Department of Radiology and Radiological Science, Division of Neuroradiology d Emory University School of Medicine, Division of Neuroradiology, Department of Radiology and Imaging Sciences e Department of Radiology, University of Colorado School of Medicine and Department of Pediatric Radiology, Children's Hospital Colorado f Associate Professor of Radiology, Texas Children's Hospital, Baylor College of Medicine, Department of Radiology, Texas Children's Hospital g Northwestern University, Department of Radiology, Northwestern Memorial Hospital h The University of Texas MD Anderson Cancer Center i Children's Hospital Colorado, University of Colorado Health, Department of Radiology j Indiana University School of Medicine k Emory University School of Medicine, Department of Radiology and Imaging Sciences l University of Alabama at Birmingham, Neuroradiology Section, Department of Radiology m Children's Hospital at Montefiore, Department of Radiology, The Children's Hospital at Montefiore The Pediatric Hospital for Albert Einstein College of Medicine n University of Utah, Department of Radiology 3 2026 47 3 508985 567 577 01 03 2027 07 03 2026 07 03 2026 © 2026 by American Journal of Neuroradiology 2026 American Journal of Neuroradiology AIM/OBJECTIVES/BACKGROUND: This practice parameter was revised collaboratively by the American College of Radiology (ACR), the American Society of Neuroradiology (ASNR), and the Society for Pediatric Radiology (SPR). The practice parameter has been updated to reflect current performance of CT angiography of the head and neck with the inclusion of newly-available information since the last revision.

This practice parameter was developed according to the process described under the heading The Process for Developing ACR Practice Parameters and Technical Standards on the ACR website (<https://www.acr.org/Clinical-Resources/Practice-Parameters-and-Technical-Standards>) by the Committee on Practice Parameters – Neuroradiology of the ACR Commission on Neuroradiology and the Committee on Practice Parameters – Pediatric Radiology of the ACR Commission on Pediatric Radiology in collaboration with the ASNR, and the SPR.

CTA is a widely-used modality in neuroradiology, and is critically important for diagnosis and monitoring of numerous conditions. This updated practice parameter provides information on indications, patient preparation, equipment specifications, examination performance, and interpretation of head and neck CTA in current practice.

This practice parameter can be used to establish or modify a head and neck CTA protocol based on current evidence and recommendations.