

Stanford



Jeremy J. Heit, MD, PhD

Associate Professor of Radiology (Neuroimaging and Neurointervention) and, by courtesy, of Neurosurgery

CLINICAL OFFICE (PRIMARY)

- **Stanford Neuroscience Health Center**

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Palo Alto, CA 94304
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Bio

BIO

Dr. Jeremy Heit is an Associate Professor of Radiology and of Neurosurgery and the Chief of Neuroimaging and Neurointervention at Stanford University. Dr. Jeremy Heit is a neurointerventional surgeon (neurointerventional radiologist) who specializes in treating stroke, brain aneurysms, brain arteriovenous malformations, brain and spinal dural arteriovenous fistulae, carotid artery stenosis, vertebral body compression fractures, and congenital vascular malformations. Dr. Heit treats all of these conditions using minimally-invasive, image-guided procedures and state-of-the-art technology.

Dr. Heit's research seeks to understand the genetic, developmental, and pathophysiologic basis of cerebrovascular disease. In addition, his group is developing new minimally invasive, image-guided treatments for ischemic and hemorrhagic stroke. He has authored over 150 publications and is an investigator on multiple grants, including the CRISP 2 and DEFUSE 3 studies. He is the co-PI of the NIH-funded PRECISE basilar thrombectomy study.

For more information about Dr. Heit's research lab, please visit:

www.heitlab.com

CLINICAL FOCUS

- Interventional Neuroradiology
- Neurointerventional Surgery
- Neuroradiology
- Stroke
- Cerebral Aneurysms
- Dural Arteriovenous Fistula
- Cerebral Arteriovenous Malformation (AVM)
- Diagnostic Neuroimaging

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Radiology
- Associate Professor - University Medical Line (By courtesy), Neurosurgery
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Chief of Neuroimaging and Neurointervention, Stanford University Medical Center, (2022- present)
- Director, Stroke Neuroradiology, Stanford Stroke Center, Stanford University Hospital, (2021- present)
- Director, Neurointerventional Surgery Fellowship, Stanford University Medical Center, (2018- present)

HONORS AND AWARDS

- Valedictorian, Regis Jesuit High School, Aurora, CO (5/1996)
- Boettcher Foundation Scholar, Full Academic Scholarship to the University of Colorado at Boulder, Boettcher Foundation (8/1996 – 5/2000)
- Beta Kappa Honor Society, Phi Beta Kappa (4/1997 – present)
- Summa Cum Laude, Department of Biochemistry, University of Colorado at Boulder (5/2000)
- Graduation with Distinction in Molecular, Cellular and Developmental Biology, University of Colorado at Boulder (5/2000)
- Department of Biochemistry Outstanding Graduating Senior Award, University of Colorado at Boulder (5/2000)
- Medical Scientist dual MD/PhD Training Program, Stanford University School of Medicine (8/2000 – 6/2008)
- Chief Resident in Radiology, Massachusetts General Hospital, Boston, MA (3/2011 – 2/2012)
- Roentgen Resident/Fellow Research Award, RSNA Research and Education Foundation, Radiological Society of North America (5/2011)
- Alpha Omega Alpha Medical Honor Society, Alpha Omega Alpha Medical Honor Society, Stanford University Medical School Chapter (5/2019)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Research Committee, American Society of Neuroradiology (2012 - present)
- Scientific Program Committee, Neuroradiology/Head and Neck Subcommittee, Radiological Society of North America (2018 - present)

PROFESSIONAL EDUCATION

- Board Certification: Neuroradiology, American Board of Radiology (2018)
- Fellowship: Stanford University Radiology Fellowships (2015) CA
- Board Certification: Diagnostic Radiology, American Board of Radiology (2013)
- Residency: Massachusetts General Hospital Radiology Residency (2013) MA
- Internship: Brigham and Women's Hospital Internal Medicine Residency (2009) MA
- Medical Education: Stanford University School of Medicine (2008) CA
- PhD, Stanford University Medical School , Developmental Biology (2007)
- BA, University of Colorado at Boulder , Biochemistry, Summa Cum Laude, and Molecular, Cellular, and Developmental Biology (2000)

LINKS

- Latest Advances in Stroke Treatment: <https://stanfordhealthcare.org/stanford-health-care-now/health-library-videos/latest-advances-stroke-treatment.html>
- Stanford Interventional Neuroradiology: <https://stanfordhealthcare.org/medical-clinics/interventional-neuroradiology-program.html>
- NBC Nightly News- New hope for stroke patients: <https://www.nbcnews.com/nightly-news/video/new-hope-for-stroke-patients-1145054787673>
- KPIX TV- Acute Stroke Therapy Trial Proves Successful In Palo Alto: <http://sanfrancisco.cbslocal.com/video/category/news/3798305-acute-stroke-therapy-trial-proves-successful-in-palo-alto/>

- Complete Publication List: <https://www.ncbi.nlm.nih.gov/myncbi/browse/collection/50949141/?sort=date&direction=descending>
- Stroke Patient Story Facebook Live Interview: <https://www.facebook.com/LucyNoland/videos/1763443777071205/>
- How the stroke stopwatch was shattered: <https://www.youtube.com/watch?v=pkxzQMUTLGw>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our research seeks to advance our understanding of cerebrovascular disease and to develop new minimally invasive treatments for these diseases. We study ischemic and hemorrhagic stroke, cerebral aneurysms, delayed cerebral ischemia, cerebral arteriovenous malformations (AVMs), dural arteriovenous fistulae, and other vascular diseases of the brain. We use state-of-the-art neuroimaging techniques to non-invasively study these diseases, and we are developing future endovascular technologies to advance neurointerventional surgery.

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CLINICAL TRIALS

- PHIL in the Treatment of Intracranial dAVF., Recruiting
- Ruptured Aneurysms Treated With Hydrogel Coils, Recruiting
- Endovascular Therapy Following Imaging Evaluation for Ischemic Stroke 3, Not Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Aroosa Zamarud, Henk van Voorst

Doctoral Dissertation Reader (NonAC)

Matine Azadian

Publications

PUBLICATIONS

- **Multicenter US clinical experience with the Scepter Mini balloon catheter.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*
Salem, M. M., Kelmer, P., Sioutas, G. S., Ostmeier, S., Hoang, A., Cortez, G., El Naamani, K., Abbas, R., Hanel, R., Tanweer, O., Srinivasan, V. M., Jabbour, P., Kan, et al
2024: 15910199241246135
- **Percutaneous Disc Biopsy versus Bone Biopsy for the Identification of Infectious Agents in Osteomyelitis/Discitis.** *Journal of vascular and interventional radiology : JVIR*
Zamarud, A., Kesten, J., Park, D. J., Pulli, B., Telischak, N. A., Dodd, R. L., Do, H. M., Marks, M. P., Heit, J. J.
2024
- **Clinical Change During Inter-Hospital Transfer For Thrombectomy: Incidence, Associated Factors and Relationship With Outcome.** *International journal of stroke : official journal of the International Stroke Society*
Seners, P., Ter Schiphorst, A., Wouters, A., Yuen, N., Mlynash, M., Arquizan, C., Heit, J. J., Kemp, S., Christensen, S., Sablot, D., Wacongne, A., Lalu, T., Costalat, et al
2024: 17474930241246952
- **CT perfusion based rCBF <38% volume is independently and negatively associated with digital subtraction angiography collateral score in anterior circulation large vessel occlusions.** *The neuroradiology journal*
Lakhani, D. A., Balar, A. B., Koneru, M., Wen, S., Ozkara, B. B., Wang, R., Hoseinyazdi, M., Nabi, M., Mazumdar, I., Cho, A., Chen, K., Sepehri, S., Hyson, et al

2024: 19714009241242639

- **Cerebral Venous Outflow in Acute Ischemic Stroke Patients - Out Through the Middle!** *Academic radiology*
Faizy, T. D., Heit, J. J.
2024
- **Follow-up infarct volume on fluid attenuated inversion recovery (FLAIR)imaging in distal medium vessel occlusions: the role of cerebral blood volume index.** *Journal of neurology*
Salim, H., Lakhani, D. A., Balar, A., Musmar, B., Adeeb, N., Hoseinyazdi, M., Luna, L., Deng, F., Hyson, N. Z., Mei, J., Dmytriw, A. A., Guenego, A., Faizy, et al
2024
- **Prolonged venous transit on perfusion imaging is associated with higher odds of mortality in successfully reperfused patients with large vessel occlusion stroke.** *Journal of neurointerventional surgery*
Yedavalli, V. S., Koneru, M., Hoseinyazdi, M., Greene, C., Lakhani, D. A., Xu, R., Luna, L. P., Caplan, J. M., Dmytriw, A. A., Guenego, A., Heit, J. J., Albers, G. W., Wintermark, et al
2024
- **The Relative Cerebral Blood Volume (rCBV) < 42% Is Independently Associated with Collateral Status in Anterior Circulation Large Vessel Occlusion.** *Journal of clinical medicine*
Lakhani, D. A., Balar, A. B., Koneru, M., Wen, S., Ozkara, B. B., Lu, H., Wang, R., Hoseinyazdi, M., Mei, J., Xu, R., Nabi, M., Mazumdar, I., Cho, et al
2024; 13 (6)
- **Incidence and clinical outcomes of perforations during mechanical thrombectomy for medium vessel occlusion in acute ischemic stroke: A retrospective, multicenter, and multinational study.** *European stroke journal*
Dmytriw, A. A., Musmar, B., Salim, H., Ghozy, S., Siegler, J. E., Kobeissi, H., Shaikh, H., Khalife, J., Abdalkader, M., Klein, P., Nguyen, T. N., Heit, J. J., Regenhardt, et al
2024: 23969873231219412
- **Factors Affecting Selection of TrainE for Neurointervention (FASTEN).** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*
Elfil, M., Morsi, R. Z., Ghozy, S., Elmashad, A., Siddiqui, A., Al-Bayati, A. R., Alaraj, A., Brook, A., Kam, A. W., Chatterjee, A. R., Patsalides, A., Waldau, B., Prestigiacomo, et al
2024: 15910199241232726
- **Treatment of Cerebral Vasospasm Following Aneurysmal Subarachnoid Hemorrhage using the Neurospeed Semi-compliant Balloon.** *Clinical neuroradiology*
Guenego, A., Heit, J. J., Bonnet, T., Elens, S., Sadeghi, N., Ligot, N., Mine, B., Lolli, V., Tannouri, F., Taccone, F. S., Lubicz, B., SAVEBRAIN Consortium
2024
- **Use of the pRESET LITE thrombectomy device in combined approach for medium vessel occlusions: A multicenter evaluation.** *Neuroradiology*
Wang, M., Henkes, H., Ghozy, S., Siegler, J. E., Shaikh, H., Khalife, J., Abdalkader, M., Klein, P., Nguyen, T. N., Heit, J. J., Sweid, A., Naamani, K. E., Regenhardt, et al
2024
- **A Clinical and Imaging Fused Deep Learning Model Matches Expert Clinician Prediction of 90-Day Stroke Outcomes.** *AJNR. American journal of neuroradiology*
Liu, Y., Shah, P., Yu, Y., Horsey, J., Ouyang, J., Jiang, B., Yang, G., Heit, J. J., McCullough-Hicks, M. E., Hugdal, S. M., Wintermark, M., Michel, P., Liebeskind, et al
2024
- **Association between occlusion location, net water uptake and ischemic lesion growth in large vessel anterior circulation strokes.** *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*
Winkelmeier, L., Heit, J. J., Broocks, G., Prüter, J., Heitkamp, C., Schell, M., Albers, G. W., Lansberg, M. G., Wintermark, M., Kemmling, A., Stracke, C. P., Guenego, A., Paech, et al
2024: 271678X241232193
- **Random expert sampling for deep learning segmentation of acute ischemic stroke on non-contrast CT.** *Journal of neurointerventional surgery*
Ostmeier, S., Axelrod, B., Liu, Y., Yu, Y., Jiang, B., Yuen, N., Pulli, B., Verhaaren, B. F., Kaka, H., Wintermark, M., Michel, P., Mahammed, A., Federau, et al
2024
- **Perfusion Profiles May Differ Between Asymptomatic Versus Symptomatic Internal Carotid Artery Occlusion.** *Journal of stroke*

Chang, T. Y., Christensen, S., Mlynash, M., Heit, J. J., Marks, M. P., Lee, S., McCullough-Hicks, M. E., Ostojic, L. V., Kemp, S., Albers, G. W., Srivatsan, A., Lee, T. H., Lansberg, et al
2024; 26 (1): 108-111

● **Robust Collaterals Are Independently Associated With Excellent Recanalization in Patients With Large Vessel Occlusion Causing Acute Ischemic Stroke** *STROKE-VASCULAR AND INTERVENTIONAL NEUROLOGY*

Yedavalli, V., Koneru, M., Hoseinyazdi, M., Greene, C., Copeland, K., Xu, R., Luna, L., Caplan, J., Dmytriw, A., Guenego, A., Heit, J., Albers, G., Wintermark, et al
2024; 4 (1)

● **Pretreatment CTP Collateral Parameters Predict Good Outcomes in Successfully Recanalized Middle Cerebral Artery Distal Medium Vessel Occlusions.** *Clinical neuroradiology*

Yedavalli, V., Koneru, M., Hamam, O., Hoseinyazdi, M., Marsh, E. B., Llinas, R., Urrutia, V., Leigh, R., Gonzalez, F., Xu, R., Caplan, J., Huang, J., Lu, et al
2023

● **RAPID aneurysm accurately measures aneurysm size on CT angiography compared to three-dimensional digital subtraction angiography.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*

Snyder, S. J., Gauden, A., Copeland, K., Spiotta, A. M., Heit, J. J.
2023: 15910199231222676

● **Redefining CT perfusion-based ischemic core estimates for the ghost core in early time window stroke.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*

Koneru, M., Hoseinyazdi, M., Lakhani, D. A., Greene, C., Copeland, K., Wang, R., Xu, R., Luna, L., Caplan, J. M., Dmytriw, A. A., Guenego, A., Heit, J. J., Albers, et al
2023

● **Pretreatment parameters associated with hemorrhagic transformation among successfully recanalized medium vessel occlusions.** *Journal of neurology*

Koneru, M., Hoseinyazdi, M., Wang, R., Ozkara, B. B., Hyson, N. Z., Marsh, E. B., Llinas, R. H., Urrutia, V. C., Leigh, R., Gonzalez, L. F., Xu, R., Caplan, J. M., Huang, et al
2023

● **Early neurological deterioration in patients with acute ischemic stroke is linked to unfavorable cerebral venous outflow.** *European stroke journal*

Heitkamp, C., Winkelmeier, L., Heit, J. J., Albers, G. W., Lansberg, M. G., Kniep, H., Broocks, G., Stracke, C. P., Schell, M., Guenego, A., Paech, D., Wintermark, M., Fiehler, et al
2023: 23969873231208277

● **Pretreatment CT perfusion collateral parameters correlate with penumbra salvage in middle cerebral artery occlusion.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*

Lakhani, D. A., Balar, A. B., Koneru, M., Hoseinyazdi, M., Hyson, N., Cho, A., Greene, C., Xu, R., Luna, L., Caplan, J., Dmytriw, A., Guenego, A., Wintermark, et al
2023

● **Excellent Recanalization and Small Core Volumes Are Associated With Favorable AM-PAC Score in Patients With Acute Ischemic Stroke Secondary to Large Vessel Occlusion.** *Archives of rehabilitation research and clinical translation*

Yedavalli, V., Koneru, M., Hoseinyazdi, M., Copeland, K., Xu, R., Luna, L., Caplan, J., Dmytriw, A., Guenego, A., Heit, J., Albers, G., Wintermark, M., Gonzalez, et al
2023; 5 (4): 100306

● **The Compensation Index Is Better Associated with DSA ASITN Collateral Score Compared to the Cerebral Blood Volume Index and Hypoperfusion Intensity Ratio.** *Journal of clinical medicine*

Lakhani, D. A., Balar, A. B., Koneru, M., Wen, S., Hoseinyazdi, M., Greene, C., Xu, R., Luna, L., Caplan, J., Dmytriw, A. A., Guenego, A., Wintermark, M., Gonzalez, et al
2023; 12 (23)

● **Performance of RAPID noncontrast CT stroke platform in large vessel occlusion and intracranial hemorrhage detection.** *Frontiers in neurology*

Yedavalli, V., Heit, J. J., Dehkharghani, S., Haerian, H., Mcmenamy, J., Honce, J., Timpone, V. M., Harnain, C., Kesselman, A., Filly, A., Beardsley, A., Sakamoto, B., Song, et al
2023; 14: 1324088

● **Priorities for Advancements in Neuroimaging in the Diagnostic Workup of Acute Stroke.** *Stroke*

Samaniego, E. A., Boltze, J., Lyden, P. D., Hill, M. D., Campbell, B. C., Silva, G. S., Sheth, K. N., Fisher, M., Hillis, A. E., Nguyen, T. N., Carone, D., Favilla, C. G., Deljkich, et al

2023

- **Brain edema growth after thrombectomy is associated with comprehensive collateral blood flow.** *Journal of neurointerventional surgery*
Faizy, T. D., Winkelmeier, L., Mlynash, M., Broocks, G., Heitkamp, C., Thaler, C., van Horn, N., Seners, P., Kniep, H., Stracke, P., Zelenak, K., Lansberg, M. G., Albers, et al
2023
- **Aspiration Versus Stent-Retriever as First-Line Endovascular Therapy Technique for Primary Medium and Distal Intracranial Occlusions: A Propensity-Score Matched Multicenter Analysis** *STROKE-VASCULAR AND INTERVENTIONAL NEUROLOGY*
Sieglar, J. E., Shaikh, H., Khalife, J., Oak, S., Zhang, L., Abdalkader, M., Klein, P., Nguyen, T. N., Kass-Hout, T., Morsi, R. Z., Heit, J. J., Regenhardt, R. W., Diestro, et al
2023; 3 (6)
- **Semiautomated Detection of Early Infarct Signs on Noncontrast CT Improves Interrater Agreement.** *Stroke*
Christensen, S., Demeestere, J., Verhaaren, B. F., Heit, J. J., Von Stein, E. L., Madill, E. S., Kennedy Loube, D., Dugue, R., Rengarajan, S., Mlynash, M., Albers, G. W., Lemmens, R., Lansberg, et al
2023
- **First pass effect as an independent predictor of functional outcomes in medium vessel occlusions: An analysis of an international multicenter study.** *European stroke journal*
Radu, R. A., Costalat, V., Fahed, R., Ghozy, S., Siegler, J. E., Shaikh, H., Khalife, J., Abdalkader, M., Klein, P., Nguyen, T. N., Heit, J. J., Sweid, A., El Naamani, et al
2023: 23969873231208276
- **Decreasing false-positive detection of intracranial hemorrhage (ICH) using RAPID ICH 3.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
Sreekrishnan, A., Giurgiutiu, D., Kitamura, F., Martinelli, C., Abdala, N., Haerian, H., Dehkharhimi, S., Kwok, K., Yedavalli, V., Heit, J. J.
2023; 32 (12): 107396
- **Factors Associated With Fast Early Infarct Growth in Patients With Acute Ischemic Stroke With A Large Vessel Occlusion.** *Neurology*
Seners, P., Yuen, N., Olivot, J. M., Mlynash, M., Heit, J. J., Christensen, S., Escribano Paredes, J. B., Carrera, E., Strambo, D., Michel, P., Salerno, A., Wintermark, M., Chen, et al
2023
- **Matched-pair analysis of patients with ischemic stroke undergoing thrombectomy using next-generation balloon guide catheters.** *Journal of neurointerventional surgery*
Kim, L. H., Choi, J., Zhou, J., Wolman, D., Pendharkar, A. V., Lansberg, M. G., Albers, G. W., Dodd, R., Do, H. M., Pulli, B., Heit, J. J., Telischak, N. A.
2023
- **Larger ischemic cores and poor collaterals among large vessel occlusions presenting in the late evening.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
Sreekrishnan, A., Tiedt, S., Seners, P., Yuen, N., Olivot, J., Mlynash, M., Lansberg, M. G., Heit, J. J., Lee, S., Michel, P., Strambo, D., Salerno, A., Paredes, et al
2023; 32 (12): 107352
- **Non-inferiority of deep learning ischemic stroke segmentation on non-contrast CT within 16-hours compared to expert neuroradiologists.** *Scientific reports*
Ostmeier, S., Axelrod, B., Verhaaren, B. F., Christensen, S., Mahammed, A., Liu, Y., Pulli, B., Li, L., Zaharchuk, G., Heit, J. J.
2023; 13 (1): 16153
- **Combined near infrared photoacoustic imaging and ultrasound detects vulnerable atherosclerotic plaque.** *Biomaterials*
Schneider, M. K., Wang, J., Kare, A., Adkar, S. S., Salmi, D., Bell, C. F., Alsaigh, T., Wagh, D., Coller, J., Mayer, A., Snyder, S. J., Borowsky, A. D., Long, et al
2023; 302: 122314
- **CT perfusion to measure venous outflow in acute ischemic stroke in patients with a large vessel occlusion.** *Journal of neurointerventional surgery*
Adusumilli, G., Christensen, S., Yuen, N., Mlynash, M., Faizy, T. D., Albers, G. W., Lansberg, M. G., Fiehler, J., Heit, J. J.
2023
- **USE-Evaluator: Performance metrics for medical image segmentation models supervised by uncertain, small or empty reference annotations in neuroimaging.** *Medical image analysis*
Ostmeier, S., Axelrod, B., Isensee, F., Bertels, J., Mlynash, M., Christensen, S., Lansberg, M. G., Albers, G. W., Sheth, R., Verhaaren, B. F., Mahammed, A., Li, L. J., Zaharchuk, et al
2023; 90: 102927

- **Diagnosis and endovascular management of vasospasm after aneurysmal subarachnoid hemorrhage - survey of real-life practices.** *Journal of neurointerventional surgery*
Guenego, A., Fahed, R., Rouchaud, A., Walker, G., Faizy, T. D., Sporns, P. B., Aggour, M., Jabbour, P., Alexandre, A. M., Mosimann, P. J., Dmytriw, A. A., Ligot, N., Sadeghi, et al
2023
- **Hypoperfusion intensity ratio as a predictor of outcomes after thrombectomy triage: A call for data homogeneity.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*
Adusumilli, G., Kobeissi, H., Ghozy, S., Kallmes, K. M., Brinjikji, W., Kallmes, D., Heit, J. J.
2023: 15910199231188763
- **Decoding the data: a comment on the American Heart Association/American Stroke Association (AHA/ASA) 2023 Guideline for the Management of patients with Aneurysmal Subarachnoid Hemorrhage.** *Journal of neurointerventional surgery*
Fraser, J. F., Heit, J. J., Mascitelli, J. R., Tsai, J. P.
2023
- **Endovascular thrombectomy for ischemic stroke with large core volume: An updated, post-TESLA systematic review and meta-analysis of the randomized trials.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*
Kobeissi, H., Adusumilli, G., Ghozy, S., Kadirvel, R., Brinjikji, W., Albers, G. W., Heit, J. J., Kallmes, D. F.
2023: 15910199231185738
- **Infarct Core Growth During Interhospital Transfer For Thrombectomy Is Faster At Night.** *Stroke*
Seners, P., Mlynash, M., Sreekrishnan, A., Ter Schiphorst, A., Arquian, C., Costalat, V., Henon, H., Bretzner, M., Heit, J. J., Olivot, J. M., Lansberg, M. G., Albers, G. W.
2023
- **Pretreatment brain CT perfusion thresholds for predicting final infarct volume in distal medium vessel occlusions.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*
Yedavalli, V., Hamam, O., Mohseni, A., Chen, K., Wang, R., Heo, H., Heit, J., Marsh, E. B., Llinas, R., Urrutia, V., Xu, R., Gonzalez, F., Albers, et al
2023
- **Role of Brain Imaging in the Prediction of Intracerebral Hemorrhage Following Endovascular Therapy for Acute Stroke.** *Stroke*
Seners, P., Wouters, A., Maier, B., Boisseau, W., Gory, B., Heit, J. J., Cognard, C., Mazighi, M., Gaudilliere, B., Lemmens, R., Zaharchuk, G., Albers, G. W., Leigh, et al
2023
- **The negative effect of aging on cerebral venous outflow in acute ischemic stroke.** *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*
Heitkamp, C., Winkelmeier, L., Heit, J. J., Flottmann, F., Thaler, C., Kniep, H., Broocks, G., Meyer, L., Geest, V., Albers, G. W., Lansberg, M. G., Fiehler, J., Faizy, et al
2023: 271678X231179558
- **Unfavorable Cerebral Venous Outflow is associated with Futile Recanalization in Acute Ischemic Stroke Patients.** *European journal of neurology*
Heitkamp, C., Winkelmeier, L., Heit, J. J., Albers, G. W., Lansberg, M. G., Wintermark, M., Broocks, G., van Horn, N., Kniep, H. C., Sporns, P. B., Zelenak, K., Fiehler, J., Faizy, et al
2023
- **Automated cerebral hemorrhage volume calculation and stability detection using automated software.** *Research square*
Sreekrishnan, A., Venkatasubramanian, C., Heit, J. J.
2023
- **Vascular anomaly, lipoma, and polymicrogyria associated with schizencephaly: developmental and diagnostic insights. Illustrative case.** *Journal of neurosurgery. Case lessons*
Kumar, K. K., Toland, A., Fischbein, N., Morrell, M., Heit, J. J., Born, D. E., Steinberg, G. K.
2023; 5 (21)
- **Comprehensive Venous Outflow Predicts Functional Outcomes in Patients with Acute Ischemic Stroke Treated by Thrombectomy.** *AJNR. American journal of neuroradiology*
Adusumilli, G., Faizy, T. D., Christensen, S., Mlynash, M., Loh, Y., Albers, G. W., Lansberg, M. G., Fiehler, J., Heit, J. J.
2023

- **Elevated Hypoperfusion Intensity Ratio (HIR) observed in patients with a large vessel occlusion (LVO) presenting in the evening.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
Sreekrishnan, A., Seners, P., Yuen, N., Olivot, J., Mlynash, M., Lansberg, M. G., Heit, J. J., Lee, S., Michel, P., Strambo, D., Salerno, A., Paredes, J. B., Carrera, et al
2023; 32 (8): 107172
- **Modern Imaging of Aneurysmal Subarachnoid Hemorrhage.** *Radiologic clinics of North America*
Levinson, S., Pendharkar, A. V., Gauden, A. J., Heit, J. J.
2023; 61 (3): 457-465
- **Imaging Factors Associated With Poor Outcome in Patients With Basilar Artery Occlusion Treated With Endovascular Thrombectomy** *STROKE-VASCULAR AND INTERVENTIONAL NEUROLOGY*
Heit, J. J., Mlynash, M., Cereda, C. W., Yuen, N., Lansberg, M. G., Bianco, G., Christensen, S., Qureshi, A. Y., Hinduja, A., Dehkharhiani, S., Goldman-Yassen, A. E., Hsieh, K., Giurgiutiu, et al
2023; 3 (3)
- **Association Between Intravenous Thrombolysis and Clinical Outcomes Among Patients With Ischemic Stroke and Unsuccessful Mechanical Reperfusion.** *JAMA network open*
Faizy, T. D., Broocks, G., Heit, J. J., Kniep, H., Flottmann, F., Meyer, L., Sporns, P., Hanning, U., Kaesmacher, J., Deb-Chatterji, M., Vollmuth, P., Lansberg, M. G., Albers, et al
2023; 6 (5): e2310213
- **The Charlotte Large Artery Occlusion Endovascular Therapy Outcome Score Compares Favorably to the Critical Area Perfusion Score for Prognostication Before Basilar Thrombectomy.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
Karamchandani, R. R., Satyanarayana, S., Yang, H., Rhoten, J. B., Strong, D., Singh, S., Clemente, J. D., Defilipp, G., Hazim, M., Patel, N. M., Bernard, J., Stetler, W. R., Parish, et al
2023; 32 (7): 107147
- **Prediction of delayed cerebral ischemia after cerebral aneurysm rupture using explainable machine learning approach.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*
Taghavi, R. M., Zhu, G., Wintermark, M., Kuraitis, G. M., Sussman, E. S., Pulli, B., Biniam, B., Ostmeier, S., Steinberg, G. K., Heit, J. J.
2023: 15910199231170411
- **CT Perfusion vs Noncontrast CT for Late Window Stroke Thrombectomy: A Systematic Review and Meta-analysis.** *Neurology*
Kobeissi, H., Ghozy, S., Adusumilli, G., Bilgin, C., Tolba, H., Amoukhteh, M., Kadirvel, R., Brinjikji, W., Heit, J. J., Rabinstein, A. A., Kallmes, D. F.
2023
- **Quantification of Penumbbral Volume in Association With Time From Stroke Onset in Acute Ischemic Stroke With Large Vessel Occlusion.** *JAMA neurology*
Seners, P., Yuen, N., Mlynash, M., Snyder, S. J., Heit, J. J., Lansberg, M. G., Christensen, S., Albucher, J., Cognard, C., Sibon, I., Obadia, M., Savatovsky, J., Baron, et al
2023
- **Response to Correspondence on "Percutaneous cervical sympathetic block to treat cerebral vasospasm and delayed cerebral ischemia: a review of the evidence" by AL McLean.** *Journal of neurointerventional surgery*
Bombardieri, A. M., Heit, J. J.
2023
- **Into the meta-verse: The decade of global knowledge sharing.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*
Adusumilli, G., Kallmes, K. M., Kobeissi, H., Kallmes, D. F., Heit, J. J.
2023: 15910199231154704
- **The diagnostic performance of artificial intelligence algorithms for identifying M2 segment middle cerebral artery occlusions: A systematic review and meta-analysis.** *Journal of neuroradiology = Journal de neuroradiologie*
Ghozy, S., Azzam, A. Y., Kallmes, K. M., Matsoukas, S., Fifi, J. T., Luijten, S. P., Lugt, A. v., Adusumilli, G., Heit, J. J., Kadirvel, R., Kallmes, D. F.
2023
- **Determinants of Infarct Core Growth During Inter-hospital Transfer for Thrombectomy.** *Annals of neurology*
Seners, P., Scheldeman, L., Christensen, S., Mlynash, M., Ter Schiphorst, A., Arquizan, C., Costalat, V., Henon, H., Bretzner, M., Heit, J. J., Olivot, J., Lansberg, M. G., Albers, et al

2023

- **Mechanical thrombectomy alone versus with thrombolysis for ischemic stroke: A meta-analysis of randomized trials.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*
Kobeissi, H., Adusumilli, G., Ghozy, S., Bilgin, C., Kadirvel, R., Brinjikji, W., Heit, J. J., Rabinstein, A. A., Kallmes, D. F.
2023: 15910199231154331
- **Comparing Tigertriever 13 to other thrombectomy devices for distal medium vessel occlusion: A systematic review and meta-analysis.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*
Adusumilli, G., Kobeissi, H., Ghozy, S., Kallmes, K. M., Brinjikji, W., Kallmes, D. F., Heit, J. J.
2023: 15910199231152510
- **Common Data Elements Analysis of Mechanical Thrombectomy Clinical Trials for Acute Ischemic Stroke with Large Core Infarct.** *Clinical neuroradiology*
Jabal, M. S., Ibrahim, M. K., Thurnham, J., Kallmes, K. M., Kobeissi, H., Ghozy, S., Hardy, N., Tarchand, R., Bilgin, C., Heit, J. J., Brinjikji, W., Kallmes, D. F.
2022
- **Correspondence on: 'Artificial intelligence aneurysm measurement tool finds growth in all aneurysms that ruptured during conservative management' by Sahlein et al.** *Journal of neurointerventional surgery*
Spiotta, A. M., Jankowitz, B. T., Heit, J. J., Grant, G., Baccin, C. E., Samaniego, E. A., Singh, P.
2022
- **Correspondence on: 'Artificial intelligence aneurysm measurement tool finds growth in all aneurysms that ruptured during conservative management' by Sahlein et al** *JOURNAL OF NEUROINTERVENTIONAL SURGERY*
Spiotta, A. M., Jankowitz, B. T., Heit, J. J., Grant, G., Baccin, C. E., Samaniego, E. A., Singh, P.
2022
- **Endovascular thrombectomy after acute ischemic stroke of the basilar artery: a meta-analysis of four randomized controlled trials.** *Journal of neurointerventional surgery*
Adusumilli, G., Kobeissi, H., Ghozy, S., Hardy, N., Kallmes, K. M., Hutchison, K., Kallmes, D. F., Brinjikji, W., Albers, G. W., Heit, J. J.
2022
- **Endovascular thrombectomy after acute ischemic stroke of the basilar artery: a meta-analysis of four randomized controlled trials** *JOURNAL OF NEUROINTERVENTIONAL SURGERY*
Adusumilli, G., Kobeissi, H., Ghozy, S., Hardy, N., Kallmes, K. M., Hutchison, K., Kallmes, D. F., Brinjikji, W., Albers, G. W., Heit, J. J.
2022
- **Percutaneous cervical sympathetic block to treat cerebral vasospasm and delayed cerebral ischemia: a review of the evidence.** *Journal of neurointerventional surgery*
Bombardieri, A. M., Albers, G. W., Rodriguez, S., Pileggi, M., Steinberg, G. K., Heit, J. J.
2022
- **Percutaneous cervical sympathetic block to treat cerebral vasospasm and delayed cerebral ischemia: a review of the evidence** *JOURNAL OF NEUROINTERVENTIONAL SURGERY*
Bombardieri, A., Albers, G. W., Rodriguez, S., Pileggi, M., Steinberg, G. K., Heit, J. J.
2022
- **Neuroimaging in Patient Selection for Thrombectomy, From the AJR Special Series on Emergency Radiology.** *AJR. American journal of roentgenology*
Geisbush, T. R., Snyder, S. J., Heit, J. J.
2022
- **Cervical sympathectomy to treat cerebral vasospasm: a scoping review.** *Regional anesthesia and pain medicine*
Bombardieri, A. M., Heifets, B. D., Treggiari, M., Albers, G. W., Steinberg, G. K., Heit, J. J.
2022
- **Hypoperfusion Intensity Ratio Is Correlated With the Risk of Parenchymal Hematoma After Endovascular Stroke Treatment.** *Stroke*
Winkelmeier, L., Heit, J. J., Adusumilli, G., Geest, V., Christensen, S., Kniep, H., van Horn, N., Steffen, P., Bechstein, M., Sporns, P., Lansberg, M. G., Albers, G. W., Wintermark, et al
2022
- **Association Between Net Water Uptake and Functional Outcome in Patients With Low ASPECTS Brain Lesions: Results From the I-LAST Study.** *Neurology*

- Broocks, G., Meyer, L., Elsayed, S., McDonough, R., Bechstein, M., Faizy, T. D., Sporns, P., Schon, G., Minnerup, J., Kniep, H. C., Hanning, U., Barow, E., Schramm, et al
2022
- **Cerebral perfusion imaging predicts final infarct volume after basilar artery thrombectomy.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
Yuen, N., Mlynash, M., O'Riordan, A., Lansberg, M., Christensen, S., Cereda, C. W., Bianco, G., Giurgiutiu, D. V., Alemsegid, F., Pileggi, M., Campbell, B., Albers, G. W., Heit, et al
2022; 32 (1): 106866
 - **Venous Outflow and Parenchymal Hemorrhage: A Clogged Drain Problem? STROKE-VASCULAR AND INTERVENTIONAL NEUROLOGY**
Faizy, T. D., Heit, J. J.
2022; 2 (6)
 - **Poor venous outflow profiles increase the risk of reperfusion hemorrhage after endovascular treatment.** *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*
Winkelmeier, L., Heit, J. J., Adusumilli, G., Geest, V., Guenego, A., Broocks, G., Pruter, J., Gloyer, N., Meyer, L., Kniep, H., Lansberg, M. G., Albers, G. W., Wintermark, et al
2022: 271678X221127089
 - **Venous Outflow Profiles Are Linked to Clinical Outcomes in Ischemic Stroke Patients with Extensive Baseline Infarct.** *Journal of stroke*
Winkelmeier, L., Broocks, G., Kniep, H., Geest, V., Reinwald, J., Meyer, L., van Horn, N., Guenego, A., Zelenak, K., Albers, G. W., Lansberg, M., Sporns, P., Wintermark, et al
2022; 24 (3): 372-382
 - **Detection of Early Ischemic Changes with Virtual Noncontrast Dual-Energy CT in Acute Ischemic Stroke: A Noninferiority Analysis.** *AJNR. American journal of neuroradiology*
Kauw, F., Ding, V. Y., Dankbaar, J. W., van Ommen, F., Zhu, G., Boothroyd, D. B., Wolman, D. N., Molvin, L., de Jong, H. W., Kappelle, L. J., Velthuis, B. K., Heit, J. J., Wintermark, et al
2022
 - **RAPID Aneurysm: Artificial intelligence for unruptured cerebral aneurysm detection on CT angiography.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
Heit, J. J., Honce, J. M., Yedavalli, V. S., Baccin, C. E., Tatit, R. T., Copeland, K., Timpone, V. M.
2022; 31 (10): 106690
 - **Anatomy of the Intracranial Arteries: The Anterior Intracranial and Vertebrobasilar Circulations.** *Neuroimaging clinics of North America*
Wolman, D. N., Moraff, A. M., Heit, J. J.
2022; 32 (3): 617-636
 - **Anatomy of the Intracranial Arteries: The Internal Carotid Artery.** *Neuroimaging clinics of North America*
Wolman, D. N., Moraff, A. M., Heit, J. J.
2022; 32 (3): 603-615
 - **Benefit of Intravenous Alteplase Before Thrombectomy Depends on ASPECTS.** *Annals of neurology*
Broocks, G., Heit, J. J., Kuraitis, G. M., Meyer, L., van Horn, N., Bechstein, M., Thaler, C., Christensen, S., Mlynash, M., Lansberg, M. G., Kemmling, A., Schon, G., Albers, et al
2022
 - **Intravenous tPA (Tissue-Type Plasminogen Activator) Correlates With Favorable Venous Outflow Profiles in Acute Ischemic Stroke.** *Stroke*
Faizy, T. D., Mlynash, M., Marks, M. P., Christensen, S., Kabiri, R., Kuraitis, G. M., Broocks, G., Winkelmeier, L., Geest, V., Nawabi, J., Lansberg, M. G., Albers, G. W., Fiehler, et al
2022: 101161STROKEAHA122038560
 - **Collateral Blood Flow and Ischemic Core Growth.** *Translational stroke research*
Seifert, K., Heit, J. J.
2022
 - **Aspiration thrombectomy versus stent retriever thrombectomy alone for acute ischemic stroke: evaluating the overlapping meta-analyses.** *Journal of neurointerventional surgery*
Azzam, A. Y., Ghozy, S., Kallmes, K. M., Adusumilli, G., Heit, J. J., Hassan, A. E., Kadirvel, R., Kallmes, D. F.

2022

- **Favourable arterial, tissue-level and venous collaterals correlate with early neurological improvement after successful thrombectomy treatment of acute ischaemic stroke.** *Journal of neurology, neurosurgery, and psychiatry*

Faizy, T. D., Mlynash, M., Kabiri, R., Christensen, S., Kuraitis, G., Meyer, L., Bechstein, M., Van Horn, N., Lansberg, M. G., Albers, G., Fiehler, J., Wintermark, M., Heit, et al
2022

- **Mechanical thrombectomy in anterior vs. posterior circulation stroke: A systematic review and meta-analysis.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*

Adusumilli, G., Pederson, J. M., Hardy, N., Kallmes, K. M., Hutchinson, K., Kobeissi, H., Heiferman, D. M., Heit, J. J.
2022: 15910199221100796

- **Endovascular Therapy Versus Medical Therapy Alone for Basilar Artery Stroke: A Systematic Review and Meta-Analysis Through Nested Knowledge** *STROKE-VASCULAR AND INTERVENTIONAL NEUROLOGY*

Adusumilli, G., Pederson, J. M., Hardy, N., Kallmes, K. M., Hutchinson, K., Kobeissi, H., Heiferman, D. M., Kallmes, D., Brinjikji, W., Albers, G. W., Heit, J. J.
2022; 2 (3)

- **Impact of collateral flow on cost-effectiveness of endovascular thrombectomy.** *Journal of neurosurgery*

Khunte, M., Wu, X., Avery, E. W., Gandhi, D., Payabvash, S., Matouk, C., Heit, J. J., Wintermark, M., Albers, G. W., Sanelli, P., Malhotra, A.
2022: 1-10

- **Automated detection of arterial landmarks and vascular occlusions in patients with acute stroke receiving digital subtraction angiography using deep learning.** *Journal of neurointerventional surgery*

Khankari, J., Yu, Y., Ouyang, J., Hussein, R., Do, H. M., Heit, J. J., Zaharchuk, G.
2022

- **The Cerebral Collateral Cascade: Comprehensive Blood Flow in Ischemic Stroke.** *Neurology*

Faizy, T. D., Mlynash, M., Kabiri, R., Christensen, S., Kuraitis, G. M., Mader, M. M., Flottmann, F., Broocks, G., Lansberg, M. G., Albers, G. W., Marks, M. P., Fiehler, J., Wintermark, et al
2022

- **Cerebral Hypoperfusion Intensity Ratio Is Linked to Progressive Early Edema Formation.** *Journal of clinical medicine*

van Horn, N., Broocks, G., Kabiri, R., Kraemer, M. C., Christensen, S., Mlynash, M., Meyer, L., Lansberg, M. G., Albers, G. W., Sporns, P., Guenego, A., Fiehler, J., Wintermark, et al
2022; 11 (9)

- **ANA Investigates: Basilar Artery Stroke.** *Annals of neurology*

Johansen, M. C., Cereda, C. W., Heit, J. J.
2022

- **Common data elements reported on middle meningeal artery embolization in chronic subdural hematoma: an interactive systematic review of recent trials.** *Journal of neurointerventional surgery*

Adusumilli, G., Ghozy, S., Kallmes, K. M., Hardy, N., Tarchand, R., Zinn, C., Lamar, D., Singeltary, E., Siegel, L., Kallmes, D. F., Arthur, A. S., Gellissen, S., Fiehler, et al
2022

- **Artificial Intelligence Prediction Of Delayed Cerebral Ischemia After Cerebral Aneurysm Rupture**

Moein Taghavi, R. M., Zhu Guangming, Wintermark, M., Christensen, S., Heit, J. J.
LIPPINCOTT WILLIAMS & WILKINS.2022

- **Cerebral Perfusion Imaging And Posterior Circulation ASPECTS Identify Stroke Patients Who Benefit From Basilar Artery Thrombectomy**

Heit, J. J., Bianco, G., Mlynash, M., Yuen, N., Qureshi, A. Y., Hinduja, A., Dehkharghani, S., Goldman-Yassen, A., Hsieh, K., Giurgiutiu, D., Gibson, D., Carrera, E., Alemsegid, et al
LIPPINCOTT WILLIAMS & WILKINS.2022

- **Endovascular Therapy Versus Medical Therapy Alone For Basilar Artery Stroke: A Systematic Review And Meta-analysis Through Nested Knowledge**

Adusumilli, G., Pederson, J., Hardy, N., Kallmes, K., Hutchinson, K., Kobeissi, H., Heiferman, D., Kallmes, D. F., Brinjikji, W., Albers, G. W., Heit, J. J.
LIPPINCOTT WILLIAMS & WILKINS.2022

- **Cost-effectiveness of thrombectomy in patients with minor stroke and large vessel occlusion: effect of thrombus location on cost-effectiveness and outcomes.** *Journal of neurointerventional surgery*

- Khunte, M., Wu, X., Koo, A., Payabvash, S., Matouk, C., Heit, J. J., Wintermark, M., Gregory, A. W., Sanelli, P. C., Gandhi, D., Malhotra, A.
1800
- **Successful mechanical thrombectomy in acute ischemic stroke: revascularization grade and functional independence.** *Journal of neurointerventional surgery*
Ghozy, S., Kacimi, S. E., Azzam, A. Y., Farahat, R. A., Abdelaal, A., Kallmes, K. M., Adusumilli, G., Heit, J. J., Kadirvel, R., Kallmes, D. F.
1800
 - **Venous outflow profiles are associated with early edema progression in ischemic stroke.** *International journal of stroke : official journal of the International Stroke Society*
van Horn, N., Heit, J. J., Kabiri, R., Broocks, G., Christensen, S., Mlynash, M., Meyer, L., Schoenfeld, M. H., Lansberg, M. G., Albers, G. W., Fiehler, J., Wintermark, M., Faizy, et al
1800: 17474930211065635
 - **Thrombectomy for anterior circulation stroke beyond 6 h from time last known well (AURORA): a systematic review and individual patient data meta-analysis** *LANCET*
Jovin, T. G., Nogueira, R. G., Lansberg, M. G., Demchuk, A. M., Martins, S. O., Mocco, J., Ribo, M., Jadhav, A. P., Ortega-Gutierrez, S., Hill, M. D., Lima, F. O., Haussen, D. C., Brown, et al
2022; 399 (10321): 249-258
 - **Comparison of embolization strategies for mixed plexiform and fistulous brain arteriovenous malformations: a computational model analysis of theoretical risks of nidus rupture.** *Journal of neurointerventional surgery*
Jain, M. S., Telischak, N. A., Heit, J. J., Do, H. M., Massoud, T. F.
2021
 - **Perfusion Imaging Collateral Scores Predict Infarct Growth in Non-Reperfused DEFUSE 3 Patients.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
MacLellan, A., Mlynash, M., Kemp, S., Ortega-Gutierrez, S., Heit, J. J., Marks, M. P., Lansberg, M. G., Albers, G. W., DEFUSE 3 Investigators
2021; 31 (1): 106208
 - **Perfusion Imaging Predicts Favorable Outcomes after Basilar Artery Thrombectomy.** *Annals of neurology*
Cereda, C. W., Bianco, G., Mlynash, M., Yuen, N., Qureshi, A. Y., Hinduja, A., Dehkharghani, S., Goldman-Yassen, A. E., Hsieh, K. L., Giurgiutiu, D., Gibson, D., Carrera, E., Alemseged, et al
2021
 - **What predicts poor outcome after successful thrombectomy in early time window?** *Journal of neurointerventional surgery*
Olivot, J., Heit, J. J., Mazighi, M., Raposo, N., Albucher, J. F., Rousseau, V., Guenego, A., Thalamas, C., Mlynash, M., Drif, A., Christensen, S., Sommet, A., Viguier, et al
2021
 - **Cerebral venous outflow profiles are associated with the first pass effect in endovascular thrombectomy.** *Journal of neurointerventional surgery*
van Horn, N., Heit, J. J., Kabiri, R., Mader, M. M., Christensen, S., Mlynash, M., Broocks, G., Meyer, L., Nawabi, J., Lansberg, M. G., Albers, G. W., Wintermark, M., Fiehler, et al
2021
 - **Cerebral Perfusion in Pediatric Stroke: Children Are Not Little Adults.** *Topics in magnetic resonance imaging : TMRI*
Lee, S., Jiang, B., Heit, J. J., Dodd, R. L., Wintermark, M.
2021; 30 (5): 245-252
 - **Definitive Diagnostic Evaluation of the Child With Arterial Ischemic Stroke and Approaches to Secondary Stroke Prevention.** *Topics in magnetic resonance imaging : TMRI*
Lee, S., Muthusami, P., Wasserman, B. M., Heit, J. J., Chandra, R. V., Hui, F., Negrotto, M., Abruzzo, T. A.
2021; 30 (5): 225-230
 - **Reperfusion Therapies for Children With Arterial Ischemic Stroke.** *Topics in magnetic resonance imaging : TMRI*
Heit, J. J., Muthusami, P., Chandra, R. V., Hui, F., Negrotto, M., Lee, S., Wasserman, B. M., Abruzzo, T. A.
2021; 30 (5): 231-243
 - **Initial Diagnostic Evaluation of the Child With Suspected Arterial Ischemic Stroke.** *Topics in magnetic resonance imaging : TMRI*
Negrotto, M., Muthusami, P., Wasserman, B. M., Lee, S., Heit, J. J., Chandra, R. V., Hui, F., Abruzzo, T. A.
2021; 30 (5): 211-223

- **Distinct intraarterial Clot Localizations affect Tissue-Level Collaterals and Venous Outflow Profiles.** *European journal of neurology*
Faizy, T. D., Kabiri, R., Christensen, S., Mlynash, M., Kuraitis, G., Broocks, G., Flottmann, F., Meyer, L., Leischner, H., Lansberg, M. G., Albers, G. W., Marks, M. P., Fiehler, et al
2021
- **Rethinking the Collateral Vasculature Assessment in Acute Ischemic Stroke: The Comprehensive Collateral Cascade.** *Topics in magnetic resonance imaging : TMRI*
Faizy, T. D., Heit, J. J.
2021; 30 (4): 181-186
- **Improving Ischemic Stroke Care With MRI and Deep Learning Artificial Intelligence.** *Topics in magnetic resonance imaging : TMRI*
Yu, Y., Heit, J. J., Zaharchuk, G.
2021; 30 (4): 187-195
- **Assessment of Optimal Patient Selection for Endovascular Thrombectomy Beyond 6 Hours After Symptom Onset: A Pooled Analysis of the AURORA Database.** *JAMA neurology*
Albers, G. W., Lansberg, M. G., Brown, S., Jadhav, A. P., Haussen, D. C., Martins, S. O., Rebello, L. C., Demchuk, A. M., Goyal, M., Ribo, M., Turk, A. S., Liebeskind, D. S., Heit, et al
2021
- **Realistic generation of diffusion-weighted magnetic resonance brain images with deep generative models.** *Magnetic resonance imaging*
Hirte, A. U., Platscher, M., Joyce, T., Heit, J. J., Tranvinh, E., Federau, C.
2021
- **MR perfusion imaging: Half-dose gadolinium is half the quality.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*
Heit, J. J., Christensen, S., Mlynash, M., Marks, M. P., Faizy, T. D., Lansberg, M. G., Wintermark, M., Bammer, R., Albers, G. W.
2021
- **Assistance from Automated ASPECTS Software Improves Reader Performance.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
Delio, P. R., Wong, M. L., Tsai, J. P., Hinson, H. E., McMenamy, J., Le, T. Q., Prabhu, D., Mann, B. S., Copeland, K., Kwok, K., Haerian, H., Lansberg, M. J., Heit, et al
2021; 30 (7): 105829
- **Association of Venous Outflow Profiles and Successful Vessel Reperfusion After Thrombectomy.** *Neurology*
Faizy, T. D., Kabiri, R., Christensen, S., Mlynash, M., Kuraitis, G., Marc-Daniel Mader, M., Albers, G. W., Lansberg, M. G., Fiehler, P. J., Wintermark, M., Marks, M. P., Heit, J. J.
2021
- **Computed Tomography-Based Imaging Algorithms for Patient Selection in Acute Ischemic Stroke.** *Neuroimaging clinics of North America*
Pulli, B., Heit, J. J., Wintermark, M.
2021; 31 (2): 235-50
- **VINE Catheter for Endovascular Surgery** *IEEE TRANSACTIONS ON MEDICAL ROBOTICS AND BIONICS*
Li, M., Obregon, R., Heit, J. J., Norbush, A., Hawkes, E. W., Morimoto, T. K.
2021; 3 (2): 384-391
- **Venous Outflow Profiles Are Linked to Cerebral Edema Formation at Noncontrast Head CT after Treatment in Acute Ischemic Stroke Regardless of Collateral Vessel Status at CT Angiography.** *Radiology*
Faizy, T. D., Kabiri, R., Christensen, S., Mlynash, M., Kuraitis, G., Meyer, L., Marks, M. P., Broocks, G., Flottmann, F., Lansberg, M. G., Albers, G. W., Fiehler, J., Wintermark, et al
2021: 203651
- **The Cerebral Collateral Cascade: Rethinking the Assessment of Vascular Pathways in Acute Ischemic Stroke Patients.**
Faizy, T. D., Mlynash, M., Kabiri, R., Christensen, S., Kuraitis, G., Mader, M., Flottmann, F., Broocks, G., Lansberg, M. G., Albers, G., Marks, M., Fiehler, J., Wintermark, et al
LIPPINCOTT WILLIAMS & WILKINS.2021
- **RAPID-LVO for Automated Detection of Intracranial Large Vessel Occlusion in Ct Angiography of the Brain.**
Dehkhangani, S., Lansberg, M. G., Venkatsubramanian, C., Cereda, C. W., Lima, F. O., Coelho, H., Rocha, F. A., Qureshi, A. Y., Haerian, H. D., Montalverne, F., Copeland, K., Heit, J.

LIPPINCOTT WILLIAMS & WILKINS.2021

● **Assistance From Automated ASPECTS Software Improves Reader Performance.**

Delio, P. R., Wong, M. L., Tsai, J. P., Hinson, H. E., McMenamy, J., Le, T., Prabhu, D., Mann, B., Copeland, K., Kwok, K., Haerian, H., Lansberg, M. G., Heit, et al

LIPPINCOTT WILLIAMS & WILKINS.2021

● **Clinical Outcomes and Identification of Patients With Persistent Penumbra Profiles Beyond 24 Hours From Last Known Well: Analysis From DEFUSE**

3. *Stroke*

Sarraj, A., Mlynash, M., Heit, J., Pujara, D., Lansberg, M., Marks, M., Albers, G. W.

2021: STROKEAHA120031147

● **Perfusion imaging-based tissue-level collaterals predict ischemic lesion net water uptake in patients with acute ischemic stroke and large vessel occlusion.** *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*

Faizy, T. D., Kabiri, R., Christensen, S., Mlynash, M., Kuraitis, G., Broocks, G., Hanning, U., Nawabi, J., Lansberg, M. G., Marks, M. P., Albers, G. W., Fiehler, J., Wintermark, et al

2021: 271678X21992200

● **Intraoperative Neuromonitoring for Cerebral Arteriovenous Malformation Embolization: A Propensity-Score Matched Retrospective Database Study.** *Cureus*

Feng, A. Y., Sussman, E. S., Jin, M. C., Wong, S., Lopez, J., Pulli, B., Heit, J. J., Telischak, N.

2021; 13 (1): e12946

● **Prediction of Clinical Outcome in Patients with Large-Vessel Acute Ischemic Stroke: Performance of Machine Learning versus SPAN-100.** *AJNR. American journal of neuroradiology*

Jiang, B., Zhu, G., Xie, Y., Heit, J. J., Chen, H., Li, Y., Ding, V., Eskandari, A., Michel, P., Zaharchuk, G., Wintermark, M.

2021

● **Favorable Venous Outflow Profiles Correlate With Favorable Tissue-Level Collaterals and Clinical Outcome.** *Stroke*

Faizy, T. D., Kabiri, R. n., Christensen, S. n., Mlynash, M. n., Kuraitis, G. M., Broocks, G. n., Flottmann, F. n., Marks, M. P., Lansberg, M. G., Albers, G. W., Fiehler, J. n., Wintermark, M. n., Heit, et al

2021: STROKEAHA120032242

● **Thrombectomy for anterior circulation stroke beyond 6 h from time last known well (AURORA): a systematic review and individual patient data meta-analysis.** *Lancet (London, England)*

Jovin, T. G., Nogueira, R. G., Lansberg, M. G., Demchuk, A. M., Martins, S. O., Mocco, J., Ribo, M., Jadhav, A. P., Ortega-Gutierrez, S., Hill, M. D., Lima, F. O., Haussen, D. C., Brown, et al

2021

● **Predictors of Early and Late Infarct Growth in DEFUSE 3.** *Frontiers in neurology*

Tate, W. J., Polding, L. C., Christensen, S., Mlynash, M., Kemp, S., Heit, J. J., Marks, M. P., Albers, G. W., Lansberg, M. G.

2021; 12: 699153

● **Treatment Challenges in Acute Minor Ischemic Stroke.** *Frontiers in neurology*

Slawski, D., Heit, J. J.

2021; 12: 723637

● **Mechanical Thrombectomy With and Without Intravenous Tissue Plasminogen Activator for Acute Ischemic Stroke: A Systematic Review and Meta-Analysis Using Nested Knowledge.** *Frontiers in neurology*

Adusumilli, G., Pederson, J. M., Hardy, N., Kallmes, K. M., Hutchison, K., Kobeissi, H., Heiferman, D. M., Heit, J. J.

1800; 12: 759759

● **Non-contrast dual-energy CT virtual ischemia maps accurately estimate ischemic core size in large-vessel occlusive stroke.** *Scientific reports*

Wolman, D. N., van Ommen, F. n., Tong, E. n., Kauw, F. n., Dankbaar, J. W., Bennink, E. n., de Jong, H. W., Molvin, L. n., Wintermark, M. n., Heit, J. J.
2021; 11 (1): 6745

● **Quality of Life in Physical, Social, and Cognitive Domains Improves With Endovascular Therapy in the DEFUSE 3 Trial.** *Stroke*

Polding, L. C., Tate, W. J., Mlynash, M. n., Marks, M. P., Heit, J. J., Christensen, S. n., Kemp, S. n., Albers, G. W., Lansberg, M. G.

2021: STROKEAHA120031490

● **Impact of Clot Shape on Successful M1 Endovascular Reperfusion.** *Frontiers in neurology*

Guenego, A., Fahed, R., Sussman, E. S., Leipzig, M., Albers, G. W., Martin, B. W., Marcellus, D. G., Kuraitis, G., Marks, M. P., Lansberg, M. G., Wintermark, M., Heit, J. J.
2021; 12: 642877

- **High-Performance Automated Anterior Circulation CT Angiographic Clot Detection in Acute Stroke: A Multireader Comparison.** *Radiology*
Dehkharhani, S. n., Lansberg, M. n., Venkatasubramanian, C. n., Cereda, C. n., Lima, F. n., Coelho, H. n., Rocha, F. n., Qureshi, A. n., Haerian, H. n., Mont'Alverne, F. n., Copeland, K. n., Heit, J. n.
2021; 202734

- **The Promise of Dual-Energy CT in Stroke and Neurovascular Imaging.** *World neurosurgery*
Wolman, D. N., Pulli, B. n., Heit, J. J.
2021; 146: 379–80

- **Automated Cerebral Hemorrhage Detection Using RAPID.** *AJNR. American journal of neuroradiology*
Heit, J. J., Coelho, H., Lima, F. O., Granja, M., Aghaebranim, A., Hanel, R., Kwok, K., Haerian, H., Cereda, C. W., Venkatasubramanian, C., Dehkharhani, S., Carbonera, L. A., Wiener, et al
2020

- **Renal Safety of Multimodal Brain Imaging Followed by Endovascular Therapy.** *Stroke*
Cereda, C. W., Mlynash, M., Cippa, P. E., Kemp, S., Heit, J. J., Marks, M. P., Lansberg, M. G., Albers, G. W.
2020: STROKEAHA120030816

- **Computed tomography-based triage of extensive baseline infarction: ASPECTS and collaterals versus perfusion imaging for outcome prediction.** *Journal of neurointerventional surgery*
McDonough, R., Elsayed, S., Faizy, T. D., Austein, F., Sporns, P. B., Meyer, L., Bechstein, M., van Horn, N., Nawka, M. T., Schon, G., Kniep, H., Hanning, U., Fiehler, et al
2020

- **Collateral Status in Ischemic Stroke: A Comparison of Computed Tomography Angiography, Computed Tomography Perfusion, and Digital Subtraction Angiography.** *Journal of computer assisted tomography*
Kauw, F., Dankbaar, J. W., Martin, B. W., Ding, V. Y., Boothroyd, D. B., van Ommen, F., de Jong, H. W., Kappelle, L. J., Velthuis, B. K., Heit, J. J., Wintermark, M.
2020; 44 (6): 984–92

- **Efficacy and safety of embolization of dural arteriovenous fistulas via the ophthalmic artery.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*
Mayerick, V. A., Sussman, E. S., Pulli, B., Dodd, R. L., Do, H. M., Telischak, N. A., Marks, M. P., Steinberg, G. K., Chang, S. D., Heit, J. J.
2020: 1591019920969270

- **Virtual monochromatic dual-energy CT reconstructions improve detection of cerebral infarct in patients with suspicion of stroke.** *Neuroradiology*
van Ommen, F., Dankbaar, J. W., Zhu, G., Wolman, D. N., Heit, J. J., Kauw, F., Bennink, E., de Jong, H. W., Wintermark, M.
2020

- **Treatment of posterior circulation fusiform aneurysms.** *Journal of neurosurgery*
Church, E. W., Bigder, M. G., Sussman, E. S., Gummidipundi, S. E., Han, S. S., Heit, J. J., Do, H. M., Dodd, R. L., Marks, M. P., Steinberg, G. K.
2020: 1–7

- **Multivariable analysis on factors associated with aneurysm rupture in patients with multiple intracranial aneurysms.** *Emergency radiology*
Liberato, A. C., Xu, J., Montes, D., Heit, J. J., Barnaure, I., Maza, N. M., Zheng, H., Hirsch, J. A., Gonzalez, R. G., Romero, J. M.
2020

- **Collateral status contributes to differences between observed and predicted 24-h infarct volumes in DEFUSE 3.** *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*
Rao, V. L., Mlynash, M., Christensen, S., Yennu, A., Kemp, S., Zaharchuk, G., Heit, J. J., Marks, M. P., Lansberg, M. G., Albers, G. W.
2020: 271678X20918816

- **Endovascular Treatment of Acute Carotid Stent Occlusion: Aspiration Thrombectomy and Angioplasty** *CUREUS*
Murray, N. M., Wolman, D. N., Marks, M., Dodd, R., Do, H. M., Lee, J. T., Heit, J. J.
2020; 12 (5)

- **Endovascular Treatment of Acute Carotid Stent Occlusion: Aspiration Thrombectomy and Angioplasty.** *Cureus*

Murray, N. M., Wolman, D. N., Marks, M., Dodd, R., Do, H. M., Lee, J. T., Heit, J. J.
2020; 12 (5): e7997

- **CT perfusion core and ASPECT score prediction of outcomes in DEFUSE 3.** *International journal of stroke : official journal of the International Stroke Society*
Kim-Tenser, M., Mlynash, M., Lansberg, M. G., Tenser, M., Bulic, S., Jagadeesan, B., Christensen, S., Simpkins, A., Albers, G. W., Marks, M. P.
2020: 1747493020915141
- **Comparison of Tmax values between full- and half-dose gadolinium perfusion studies.** *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*
Christensen, S., Amukotuwa, S., Lansberg, M. G., Kemp, S., Heit, J. J., Mlynash, M., Marks, M. P., Albers, G. W., Bammer, R.
2020: 271678X20914537
- **Safety and Effectiveness of Neuro-thrombectomy on Single compared to Biplane Angiography Systems.** *Scientific reports*
Guenego, A., Mosimann, P. J., Wintermark, M., Heit, J. J., Zuber, K., Dobrocky, T., Lotterie, J. A., Nicholson, P., Marcellus, D. G., Olivot, J. M., Gonzalez, N., Blanc, R., Pereira, et al
2020; 10 (1): 4470
- **Hypoperfusion Intensity Ratio Correlates With Angiographic Collaterals In Acute Ischemic Stroke With M1 Occlusion.** *European journal of neurology*
Guenego, A., Fahed, R., Albers, G. W., Kuraitis, G., Sussman, E. S., Martin, B. W., Marcellus, D. G., Olivot, J., Marks, M. P., Lansberg, M. G., Wintermark, M., Heit, J. J.
2020
- **Collateral Status Contributes to Differences Between Observed and Predicted 24-Hour Infarct Volumes in DEFUSE 3**
Rao, V., Mlynash, M., Christensen, S., Yennu, A., Kemp, S., Zaharchuk, G., Heit, J., Marks, M., Lansberg, M., Albers, G., DEFUSE 3 Investigators
LIPPINCOTT WILLIAMS & WILKINS.2020
- **Renal Safety of Multimodal Brain Imaging Followed by Endovascular Therapy**
Cereda, C. W., Mlynash, M., Heit, J., Kemp, S., Cippa, P., Marks, M. P., Lansberg, M., Albers, G. W.
LIPPINCOTT WILLIAMS & WILKINS.2020
- **Arterial-spin labeling MRI identifies residual cerebral arteriovenous malformation following stereotactic radiosurgery treatment** *JOURNAL OF NEURORADIOLOGY*
Heit, J. J., Thakur, N. H., Iv, M., Fischbein, N. J., Wintermark, M., Dodd, R. L., Steinberg, G. K., Chang, S. D., Kapadia, K. B., Zaharchuk, G.
2020; 47 (1): 13–19
- **What predicts poor outcome after successful thrombectomy in late time windows?** *Journal of neurointerventional surgery*
Heit, J. J., Mlynash, M. n., Christensen, S. n., Kemp, S. M., Lansberg, M. G., Marks, M. P., Olivot, J. M., Gregory, A. W.
2020
- **Initial experience with the Scepter Mini dual-lumen balloon for transophthalmic artery embolization of anterior cranial fossa dural arteriovenous fistulae.** *Journal of neurointerventional surgery*
Pulli, B. n., Sussman, E. S., Mayercik, V. n., Steinberg, G. K., Do, H. M., Heit, J. J.
2020
- **Effect of Oxygen Extraction (Brush-Sign) on Baseline Core Infarct Depends on Collaterals (HIR).** *Frontiers in neurology*
Guenego, A., Leipzig, M., Fahed, R., Sussman, E. S., Faizy, T. D., Martin, B. W., Marcellus, D. G., Wintermark, M., Olivot, J., Albers, G. W., Lansberg, M. G., Heit, J. J.
2020; 11: 618765
- **Tilt-Corrected Region Boundaries May Enhance the Alberta Stroke Program Early Computed Tomography Score for Less Experienced Raters.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
Culbertson, C. J., Christensen, S. n., Mlynash, M. n., Heit, J. J., Federau, C. n., Sells, C. M., Legault, C. n., McCaslin, A. F., Werbaneth, K. n., Albers, G. W., Lansberg, M. G.
2020: 104820
- **The Myelin Water Fraction Serves as a Marker for Age-Related Myelin Alterations in the Cerebral White Matter - A Multiparametric MRI Aging Study.** *Frontiers in neuroscience*
Faizy, T. D., Thaler, C., Broocks, G., Flottmann, F., Leischner, H., Kniep, H., Nawabi, J., Schon, G., Stellmann, J., Kemmling, A., Reddy, R., Heit, J. J., Fiehler, et al
2020; 14: 136

- **Dual antiplatelet therapy after carotid artery stenting: trends and outcomes in a large national database.** *Journal of neurointerventional surgery*
Sussman, E. S., Jin, M. n., Pendharkar, A. V., Pulli, B. n., Feng, A. n., Heit, J. J., Telischak, N. A.
2020
- **Early Head Computed Tomography Abnormalities Associated with Elevated Intracranial Pressure in Severe Traumatic Brain Injury.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*
Murray, N. M., Wolman, D. N., Mlynash, M. n., Threlkeld, Z. D., Christensen, S. n., Heit, J. J., Harris, O. A., Hirsch, K. G.
2020
- **Artificial Intelligence and Stroke Imaging: A West Coast Perspective.** *Neuroimaging clinics of North America*
Zhu, G. n., Jiang, B. n., Chen, H. n., Tong, E. n., Xie, Y. n., Faizy, T. D., Heit, J. J., Zaharchuk, G. n., Wintermark, M. n.
2020; 30 (4): 479–92
- **Direct versus indirect bypass procedure for the treatment of ischemic moyamoya disease: results of an individualized selection strategy.** *Journal of neurosurgery*
Nielsen, T. H., Abhinav, K. n., Sussman, E. S., Han, S. S., Weng, Y. n., Bell-Stephens, T. n., Heit, J. J., Steinberg, G. K.
2020: 1–12
- **Image Quality of Virtual Monochromatic Reconstructions of Noncontrast CT on a Dual-Source CT Scanner in Adult Patients.** *Academic radiology*
van Ommen, F. n., Kauw, F. n., Bennink, E. n., Heit, J. J., Wolman, D. N., Dankbaar, J. W., de Jong, H. W., Wintermark, M. n.
2020
- **Computed Tomography Perfusion Data for Acute Ischemic Stroke Evaluation Using Rapid Software: Pitfalls of Automated Postprocessing.** *Journal of computer assisted tomography*
Kauw, F., Heit, J. J., Martin, B. W., van Ommen, F., Kappelle, L. J., Velthuis, B. K., de Jong, H. W., Dankbaar, J. W., Wintermark, M.
2019
- **Perfusion Computed Tomography in Acute Ischemic Stroke.** *Radiologic clinics of North America*
Heit, J. J., Sussman, E. S., Wintermark, M.
2019; 57 (6): 1109–16
- **Comparison of MRI IVIM and MR perfusion imaging in acute ischemic stroke due to large vessel occlusion.** *International journal of stroke : official journal of the International Stroke Society*
Zhu, G., Federau, C., Wintermark, M., Chen, H., Marcellus, D. G., Martin, B. W., Heit, J. J.
2019: 1747493019873515
- **Neuroimaging selection for thrombectomy in pediatric stroke: a single-center experience** *JOURNAL OF NEUROINTERVENTIONAL SURGERY*
Lee, S., Heit, J., Albers, G. W., Wintermark, M., Jiang, B., Bernier, E., Fischbein, N. J., Mlynash, M., Marks, M. P., Do, H. M., Dodd, R. L.
2019; 11 (9): 940–46
- **Endovascular versus medical therapy for large-vessel anterior occlusive stroke presenting with mild symptoms.** *International journal of stroke : official journal of the International Stroke Society*
Wolman, D. N., Marcellus, D. G., Lansberg, M. G., Albers, G., Guenego, A., Marks, M. P., Dodd, R. L., Do, H. M., Wintermark, M., Martin, B. W., Heit, J. J.
2019: 1747493019873510
- **Optimized Combination of b#values for IVIM Perfusion Imaging in Acute Ischemic Stroke Patients.** *Clinical neuroradiology*
Zhu, G., Heit, J. J., Martin, B. W., Marcellus, D. G., Federau, C., Wintermark, M.
2019
- **Thrombectomy Results in Reduced Hospital Stay, More Home-Time, and More Favorable Living Situations in DEFUSE 3.** *Stroke*
Tate, W. J., Polding, L. C., Kemp, S., Mlynash, M., Heit, J. J., Marks, M. P., Albers, G. W., Lansberg, M. G.
2019: STROKEAHA119025165
- **Outcomes of Thrombectomy in Transferred Patients With Ischemic Stroke in the Late Window: A Subanalysis From the DEFUSE 3 Trial** *JAMA NEUROLOGY*
Sarraj, A., Mlynash, M., Savitz, S. I., Heit, J. J., Lansberg, M. G., Marks, M. P., Albers, G. W.
2019; 76 (6): 682–89
- **Response by de Havenon et al to Letter Regarding Article, "Results From DEFUSE 3: Good Collaterals Are Associated With Reduced Ischemic Core Growth but Not Neurologic Outcome"** *STROKE*
de Havenon, A., Albers, G. W., Heit, J. J.

2019; 50 (6): E166

● **Collateral blood flow measurement with intravoxel incoherent motion perfusion imaging in hyperacute brain stroke** *NEUROLOGY*

Federau, C., Wintermark, M., Christensen, S., Mlynash, M., Marcellus, D. G., Zhu, G., Martin, B. W., Lansberg, M. G., Albers, G. W., Heit, J. J.
2019; 92 (21): E2462–E2471

● **Response by Guenego and Heit to Letter Regarding Article, "Hypoperfusion Intensity Ratio Is Correlated With Patient Eligibility for Thrombectomy".** *Stroke*

Guenego, A., Heit, J. J.
2019: STROKEAHA119025863

● **Response by de Havenon et al to Letter Regarding Article, "Results From DEFUSE 3: Good Collaterals Are Associated With Reduced Ischemic Core Growth but Not Neurologic Outcome".** *Stroke*

de Havenon, A., Albers, G. W., Heit, J. J.
2019: STROKEAHA119025713

● **Rapid Neurologic Improvement Predicts Favorable Outcome 90 Days After Thrombectomy in the DEFUSE 3 Study** *STROKE*

Heit, J. J., Mlynash, M., Kemp, S. M., Lansberg, M. G., Christensen, S., Marks, M. P., Ortega-Gutierrez, S., Albers, G. W.
2019; 50 (5): 1172–77

● **Superselective methohexitol challenge prior to intracranial endovascular embolization** *JOURNAL OF CLINICAL NEUROSCIENCE*

Bican, O., Cho, C., Suarez-Roman, A., Viet Nguyen, Lee, L., Le, S., Heit, J., Dodd, R., Lopez, J.
2019; 63: 68–71

● **Collateral blood flow measurement with intravoxel incoherent motion perfusion imaging in hyperacute brain stroke.** *Neurology*

Federau, C., Wintermark, M., Christensen, S., Mlynash, M., Marcellus, D. G., Zhu, G., Martin, B. W., Lansberg, M. G., Albers, G. W., Heit, J. J.
2019

● **Baseline Perfusion Imaging Collateral Scores Predict Infarct Growth in DEFUSE 3**

MacLellan, A., Mlynash, M., Heit, J., Marks, M., Lansberg, M., Albers, G.
LIPPINCOTT WILLIAMS & WILKINS.2019

● **Association of Thrombectomy With Stroke Outcomes Among Patient Subgroups Secondary Analyses of the DEFUSE 3 Randomized Clinical Trial** *JAMA NEUROLOGY*

Lansberg, M. G., Mlynash, M., Hamilton, S., Yeatts, S. D., Christensen, S., Kemp, S., Lavori, P. W., Ortega-Gutierrez, S., Broderick, J., Heit, J., Marks, M. P., Albers, G. W., Ortega-Gutierrez, et al
2019; 76 (4): 447–53

● **Rapid Neurologic Improvement Predicts Favorable Outcome 90 Days After Thrombectomy in the DEFUSE 3 Study.** *Stroke*

Heit, J. J., Mlynash, M., Kemp, S. M., Lansberg, M. G., Christensen, S., Marks, M. P., Ortega-Gutierrez, S., Albers, G. W.
2019: STROKEAHA119024928

● **Hypoperfusion Intensity Ratio Is Correlated With Patient Eligibility for Thrombectomy** *STROKE*

Guenego, A., Marcellus, D. G., Martin, B. W., Christensen, S., Albers, G. W., Lansberg, M. G., Marks, M. P., Wintermark, M., Heit, J. J.
2019; 50 (4): 917–22

● **Cerebral foreign body reaction due to hydrophilic polymer embolization following aneurysm treatment by pipeline flow diversion device.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*

Geisbush, T. R., Marks, M. P., Heit, J. J.
2019: 1591019919830767

● **Proposed achievable levels of dose and impact of dose-reduction systems for thrombectomy in acute ischemic stroke: an international, multicentric, retrospective study in 1096 patients.** *European radiology*

Guenego, A., Mosimann, P. J., Pereira, V. M., Nicholson, P., Zuber, K., Lotterie, J. A., Dobrocky, T., Marcellus, D. G., Olivot, J. M., Piotin, M., Gralla, J., Fahed, R., Wintermark, et al
2019

● **Hypoperfusion Intensity Ratio Is Correlated With Patient Eligibility for Thrombectomy.** *Stroke*

Guenego, A., Marcellus, D. G., Martin, B. W., Christensen, S., Albers, G. W., Lansberg, M. G., Marks, M. P., Wintermark, M., Heit, J. J.
2019: STROKEAHA118024134

- **Results From DEFUSE 3 Good Collaterals Are Associated With Reduced Ischemic Core Growth but Not Neurologic Outcome** *STROKE*
de Havenon, A., Mlynash, M., Kim-Tenser, M. A., Lansberg, M. G., Leslie-Mazwi, T., Christensen, S., McTaggart, R. A., Alexander, M., Albers, G., Broderick, J., Marks, M. P., Heit, J. J., DEFUSE 3 Investigators
2019; 50 (3): 632–38
- **Ischemic Core and Hypoperfusion Volumes Correlate With Infarct Size 24 Hours After Randomization in DEFUSE 3** *STROKE*
Rao, V., Christensen, S., Yennu, A., Mlynash, M., Zaharchuk, G., Heit, J., Marks, M. P., Lansberg, M. G., Albers, G. W.
2019; 50 (3): 626–31
- **Persistent Target Mismatch Profile > 24 Hours After Stroke Onset in DEFUSE 3** *STROKE*
Christensen, S., Mlynash, M., Kemp, S., Yennu, A., Heit, J. J., Marks, M. P., Lansberg, M. G., Albers, G. W.
2019; 50 (3): 754–57
- **Superselective methohexitol challenge prior to intracranial endovascular embolization.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*
Bican, O., Cho, C., Suarez-Roman, A., Nguyen, V., Lee, L., Le, S., Heit, J., Dodd, R., Lopez, J.
2019
- **Persistent Target Mismatch Profile >24 Hours After Stroke Onset in DEFUSE 3.** *Stroke*
Christensen, S., Mlynash, M., Kemp, S., Yennu, A., Heit, J. J., Marks, M. P., Lansberg, M. G., Albers, G. W.
2019: STROKEAHA118023392
- **Outcomes of Thrombectomy in Transferred Patients With Ischemic Stroke in the Late Window: A Subanalysis From the DEFUSE 3 Trial.** *JAMA neurology*
Sarraj, A., Mlynash, M., Savitz, S. I., Heit, J. J., Lansberg, M. G., Marks, M. P., Albers, G. W.
2019
- **Ischemic Core and Hypoperfusion Volumes Correlate With Infarct Size 24 Hours After Randomization in DEFUSE 3.** *Stroke*
Rao, V., Christensen, S., Yennu, A., Mlynash, M., Zaharchuk, G., Heit, J., Marks, M. P., Lansberg, M. G., Albers, G. W.
2019: STROKEAHA118023177
- **Results From DEFUSE 3.** *Stroke*
de Havenon, A., Mlynash, M., Kim-Tenser, M. A., Lansberg, M. G., Leslie-Mazwi, T., Christensen, S., McTaggart, R. A., Alexander, M., Albers, G., Broderick, J., Marks, M. P., Heit, J. J., DEFUSE 3 Investigators
2019: STROKEAHA118023407
- **DEFUSE 3 Trial Outcomes not Affected by the Enrollment Rates of the Participating Centers.**
Mlynash, M., Lansberg, M. G., Kemp, S., Christensen, S., Heit, J. J., Marks, M. P., Albers, G. W.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Baseline Perfusion Imaging Collateral Scores Predict Infarct Growth in DEFUSE 3**
MacLellan, A., Heit, J. J., Marks, M. P., Lansberg, M. G., Michael, M., Albers, G. W.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Optimizing CT Perfusion Thresholds for Identification of Ischemic Core in Hyperacute Stroke.**
Legault, C., Lansberg, M., Heit, J., Albers, G.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Late Window Transfer Patients had Favorable Outcomes Following Thrombectomy in DEFUSE 3**
Sarraj, A., Mlynash, M., Heit, J., Marks, M., Lansberg, M., Albers, G.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Selection Criteria for Thrombectomy in Pediatric Stroke: A Single-Center Series**
Lee, S., Heit, J. J., Albers, G. W., Wintermark, M., Elbers, J., Bernier, E., Jiang, B., Marks, M. P., Do Huy, M., Dodd, R.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **CT Perfusion Collateral Score Predicts Which Patients Will Maintain a Penumbbral Profile on MRI for Greater than 24 Hours**
Christensen, S., Mlynash, M., Kemp, S., Yennu, A., Heit, J. J., Marks, M. P., Lansberg, M. G., Albers, G., DEFUSE 3 Investigators
LIPPINCOTT WILLIAMS & WILKINS.2019

● **Correlation between Modified Rankin Scale and Quality of Life in DEFUSE 3**

Polding, L. C., Tate, W. J., Mlynash, M., Marks, M. P., Heit, J. J., Kemp, S., Albers, G. W., Lansberg, M. G.
LIPPINCOTT WILLIAMS & WILKINS.2019

● **Combination of Tmax and Relative CBV Perfusion Parameters More Accurately Predicts CTA Collaterals Than a Single Perfusion Parameter in DEFUSE 3.**

Mlynash, M., Lansberg, M. G., Kemp, S., Christensen, S., Yennu, A., Heit, J. J., Marks, M. P., Albers, G. W.
LIPPINCOTT WILLIAMS & WILKINS.2019

● **Union of Ischemic Core and Hypoperfusion Volume Correlates With 24-hour Infarct Size in DEFUSE 3**

Rao, V., Christensen, S., Yennu, A., Mylnash, M., Zaharchuk, G., Heit, J., Marks, M. P., Lansberg, M. G., Albers, G. W.
LIPPINCOTT WILLIAMS & WILKINS.2019

● **Later Imaging More Accurately Captures Infarct Growth in DEFUSE 3**

Tate, W. J., Polding, L. C., Christensen, S., Mlynash, M., Heit, J. J., Marks, M. M., Albers, G. W., Lansberg, M. G.
LIPPINCOTT WILLIAMS & WILKINS.2019

● **Early Dramatic Improvement on the National Institutes of Health Stroke Scale Predicts Favorable Outcome 90 Days After Thrombectomy in the DEFUSE 3 Study.**

Heit, J. J., Mlynash, M., Kemp, S., Lansberg, M. G., Christiansen, S., Marks, M. P., Albers, G. W.
LIPPINCOTT WILLIAMS & WILKINS.2019

● **Improved Quality of Life With Endovascular Therapy in the DEFUSE 3 Trial**

Polding, L. C., Tate, W. J., Mlynash, M., Marks, M. P., Heit, J. J., Kemp, S., Albers, G. W., Lansberg, M. G.
LIPPINCOTT WILLIAMS & WILKINS.2019

● **Thrombectomy Results in Reduced Hospital Stay, More Time at Home, and More Favorable Living Situations for Patients in the DEFUSE 3 Trial.**

Tate, W. J., Polding, L. C., Kemp, S., Mlynash, M., Heit, J. J., Marks, M. P., Albers, G. W., Lansberg, M. G.
LIPPINCOTT WILLIAMS & WILKINS.2019

● **Results From the DEFUSE 3 Trial: Good Leptomeningeal Collaterals Are Associated With Reduced Core Infarct Size but Not Improved Neurologic Outcome**

de Havenon, A., Mlynash, M., Kim-Tenser, M. A., Lansberg, M., Leslie-Mazwi, T., Christensen, S., McTaggart, R., Alexander, M., Albers, G., Broderick, J., Marks, M. P., Heit, J., DEFUSE 3 Investigators
LIPPINCOTT WILLIAMS & WILKINS.2019

● **Association of Thrombectomy With Stroke Outcomes Among Patient Subgroups: Secondary Analyses of the DEFUSE 3 Randomized Clinical Trial. *JAMA neurology***

Lansberg, M. G., Mlynash, M., Hamilton, S., Yeatts, S. D., Christensen, S., Kemp, S., Lavori, P. W., Gutierrez, S. O., Broderick, J., Heit, J., Marks, M. P., Albers, G. W., DEFUSE 3 Investigators
2019

● **Thrombectomy for acute ischemic stroke in nonagenarians compared with octogenarians. *Journal of neurointerventional surgery***

Sussman, E. S., Martin, B. n., Mlynash, M. n., Marks, M. P., Marcellus, D. n., Albers, G. n., Lansberg, M. n., Dodd, R. n., Do, H. M., Heit, J. J.
2019

● **Arterial-Spin Labeling MRI Identifies Residual Cerebral Arteriovenous Malformation Following Stereotactic Radiosurgery Treatment. *Journal of neuroradiology. Journal de neuroradiologie***

Heit, J. J., Thakur, N. H., Iv, M. n., Fischbein, N. J., Wintermark, M. n., Dodd, R. L., Steinberg, G. K., Chang, S. D., Kapadia, K. B., Zaharchuk, G. n.
2019

● **Neuroimaging selection for thrombectomy in pediatric stroke: a single-center experience. *Journal of neurointerventional surgery***

Lee, S. n., Heit, J. J., Albers, G. W., Wintermark, M. n., Jiang, B. n., Bernier, E. n., Fischbein, N. J., Mlynash, M. n., Marks, M. P., Do, H. M., Dodd, R. L.
2019

● **Arterial Spin-Labeling MRI Identifies Hypervascular Meningiomas. *AJR. American journal of roentgenology***

Mayercik, V. n., Ma, M. n., Holdsworth, S. n., Heit, J. n., Iv, M. n.
2019: 1–5

● **Can diffusion- and perfusion-weighted imaging alone accurately triage anterior circulation acute ischemic stroke patients to endovascular therapy? *JOURNAL OF NEUROINTERVENTIONAL SURGERY***

- Wolman, D. N., Iv, M., Wintermark, M., Zaharchuk, G., Marks, M. P., Do, H. M., Dodd, R. L., Albers, G. W., Lansberg, M. G., Heit, J. J. 2018; 10 (12): 1132-+
- **Advanced Neuroimaging of Acute Ischemic Stroke: Penumbra and Collateral Assessment.** *Neuroimaging clinics of North America* Heit, J. J., Zaharchuk, G., Wintermark, M. 2018; 28 (4): 585-97
 - **Hypoperfusion ratio predicts infarct growth during transfer for thrombectomy** *ANNALS OF NEUROLOGY* Guenego, A., Mlynash, M., Christensen, S., Kemp, S., Heit, J. J., Lansberg, M. G., Albers, G. W. 2018; 84 (4): 616-20
 - **Consensus statement on current and emerging methods for the diagnosis and evaluation of cerebrovascular disease** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM* Donahue, M. J., Achten, E., Cogswell, P. M., De Leeuw, F., Derdeyn, C. P., Dijkhuizen, R. M., Fan, A. P., Ghaznawi, R., Heit, J. J., Ikram, M., Jezzard, P., Jordan, L. C., Jouvent, et al 2018; 38 (9): 1391-1417
 - **Positive pharmacologic provocative testing with methohexitol during cerebral arteriovenous malformation embolization** *CLINICAL IMAGING* Bican, O., Cho, C., Lee, L., Viet Nguyen, Le, S., Heit, J., Lopez, J. 2018; 51: 155-59
 - **New developments in clinical ischemic stroke prevention and treatment and their imaging implications** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM* Heit, J. J., Wintermark, M. 2018; 38 (9): 1533-50
 - **Hypoperfusion Ratio predicts infarct growth during transfer for thrombectomy.** *Annals of neurology* Guenego, A., Mlynash, M., Christensen, S., Kemp, S., Heit, J. J., Lansberg, M. G., Albers, G. W. 2018
 - **Endovascular Treatment in the DEFUSE 3 Study.** *Stroke* Marks, M. P., Heit, J. J., Lansberg, M. G., Kemp, S., Christensen, S., Derdeyn, C. P., Rasmussen, P. A., Zaidat, O. O., Broderick, J. P., Yeatts, S. D., Hamilton, S., Mlynash, M., Albers, et al 2018
 - **Early Cerebral Vein After Endovascular Ischemic Stroke Treatment Predicts Symptomatic Reperfusion Hemorrhage** *STROKE* Cartmell, S. D., Ball, R. L., Kaimal, R., Telischak, N. A., Marks, M. P., Do, H. M., Dodd, R. L., Albers, G. W., Lansberg, M. G., Heit, J. J. 2018; 49 (7): 1741-46
 - **Positive pharmacologic provocative testing with methohexitol during cerebral arteriovenous malformation embolization.** *Clinical imaging* Bican, O., Cho, C., Lee, L., Nguyen, V., Le, S., Heit, J., Lopez, J. 2018; 51: 155-59
 - **Thrombectomy for Stroke at 6 to 16 Hours with Selection by Perfusion Imaging.** *The New England journal of medicine* Albers, G. W., Marks, M. P., Kemp, S. n., Christensen, S. n., Tsai, J. P., Ortega-Gutierrez, S. n., McTaggart, R. A., Torbey, M. T., Kim-Tenser, M. n., Leslie-Mazwi, T. n., Sarraj, A. n., Kasner, S. E., Ansari, et al 2018; 378 (8): 708-18
 - **Intraoperative Imaging for Arteriovenous Malformations and Dural Arteriovenous Fistulas** *BRAIN ARTERIOVENOUS MALFORMATIONS AND ARTERIOVENOUS FISTULAS* Wintermark, M., Heit, J. J., Dumont, A., Lanzino, G., Sheehan, J. 2018: 67-74
 - **Dual-Energy Computed Tomography Applications in Neurointervention.** *Journal of computer assisted tomography* Wolman, D. N., Patel, B. P., Wintermark, M. n., Heit, J. J. 2018
 - **Neuro-Interventional Management of Acute Ischemic Stroke.** *Neuroimaging clinics of North America* Hacein-Bey, L. n., Heit, J. J., Konstas, A. A. 2018; 28 (4): 625-38

- **Sofia intermediate catheter and the SNAKE technique: safety and efficacy of the Sofia catheter without guidewire or microcatheter construct.** *Journal of neurointerventional surgery*
Heit, J. J., Wong, J. H., Mofaff, A. M., Telischak, N. A., Dodd, R. L., Marks, M. P., Do, H. M.
2018; 10 (4): 401–6
- **Early Cerebral Vein After Endovascular Ischemic Stroke Treatment Predicts Symptomatic Reperfusion Hemorrhage.** *Stroke*
Cartmell, S. C., Ball, R. L., Kaimal, R. n., Telischak, N. A., Marks, M. P., Do, H. M., Dodd, R. L., Albers, G. W., Lansberg, M. G., Heit, J. J.
2018
- **Can diffusion- and perfusion-weighted imaging alone accurately triage anterior circulation acute ischemic stroke patients to endovascular therapy?** *Journal of neurointerventional surgery*
Wolman, D. N., Iv, M. n., Wintermark, M. n., Zaharchuk, G. n., Marks, M. P., Do, H. M., Dodd, R. L., Albers, G. W., Lansberg, M. G., Heit, J. J.
2018
- **Current Clinical State of Advanced Magnetic Resonance Imaging for Brain Tumor Diagnosis and Follow Up.** *Seminars in roentgenology*
Iv, M. n., Yoon, B. C., Heit, J. J., Fischbein, N. n., Wintermark, M. n.
2018; 53 (1): 45–61
- **Wingspan stent delivery catheter fracture and the TRAP technique for endovascular salvage.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*
Jagani, M. n., Do, H. M., Heit, J. J.
2018; 24 (1): 106–10
- **Reduced Intravoxel Incoherent Motion Microvascular Perfusion Predicts Delayed Cerebral Ischemia and Vasospasm After Aneurysm Rupture.** *Stroke*
Heit, J. J., Wintermark, M. n., Martin, B. W., Zhu, G. n., Marks, M. P., Zaharchuk, G. n., Dodd, R. L., Do, H. M., Steinberg, G. K., Lansberg, M. G., Albers, G. W., Federau, C. n.
2018
- **Reply . AJNR. American journal of neuroradiology**
Heit, J. J.
2018
- **Ischemic Stroke Treatment Trials: Neuroimaging Advancements and Implications.** *Topics in magnetic resonance imaging*
Patel, V. P., Heit, J. J.
2017; 26 (3): 133-139
- **Fluoroscopic C-Arm and CT-Guided Selective Radiofrequency Ablation for Trigeminal and Glossopharyngeal Facial Pain Syndromes.** *Pain medicine (Malden, Mass.)*
Telischak, N. A., Heit, J. J., Campos, L. W., Choudhri, O. A., Do, H. M., Qian, X.
2017
- **MR Perfusion predicts angiographic vasospasm after aneurysmal subarachnoid hemorrhage**
Kronfeld, K., Khatibi, K., Hirsch, K., Heit, J.
LIPPINCOTT WILLIAMS & WILKINS.2017
- **Resting-State BOLD MRI for Perfusion and Ischemia.** *Topics in magnetic resonance imaging*
Kroll, H., Zaharchuk, G., Christen, T., Heit, J. J., Iv, M.
2017; 26 (2): 91-96
- **Guest Editorial.** *Topics in magnetic resonance imaging*
Heit, J. J.
2017; 26 (2): 55-?
- **Advanced MRI Measures of Cerebral Perfusion and Their Clinical Applications.** *Topics in magnetic resonance imaging*
Lanzman, B., Heit, J. J.
2017; 26 (2): 83-90
- **Real-Time Fluoroscopic and C-Arm Computed Tomography Evaluation of Ommaya Reservoir Integrity.** *Cureus*
Moraff, A. M., Hayden Gephart, M., Shuer, L. M., Heit, J. J.
2017; 9 (3)

- **Introduction.** *Topics in magnetic resonance imaging : TMRI*
Heit, J. J.
2017
- **Contemporary Imaging of Cerebral Arteriovenous Malformations.** *AJR. American journal of roentgenology*
Tranvinh, E., Heit, J. J., Hacein-Bey, L., Provenzale, J., Wintermark, M.
2017: 1-11
- **Real-Time Fluoroscopic and C-Arm Computed Tomography Evaluation of Ommaya Reservoir Integrity** *CUREUS*
Moraff, A. M., Gephart, M., Shuer, L. M., Heit, J. J.
2017; 9 (3)
- **New developments in clinical ischemic stroke prevention and treatment and their imaging implications.** *Journal of cerebral blood flow and metabolism*
Heit, J. J., Wintermark, M.
2017: 271678X17694046-?
- **Patient Outcomes and Cerebral Infarction after Ruptured Anterior Communicating Artery Aneurysm Treatment.** *AJNR. American journal of neuroradiology*
Heit, J. J., Ball, R. L., Telischak, N. A., Do, H. M., Dodd, R. L., Steinberg, G. K., Chang, S. D., Wintermark, M. n., Marks, M. P.
2017; 38 (11): 2119–25
- **Pipeline embolization device retraction and foreshortening after internal carotid artery blister aneurysm treatment.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*
Heit, J. J., Telischak, N. A., Do, H. M., Dodd, R. L., Steinberg, G. K., Marks, M. P.
2017; 23 (6): 614–19
- **Clinical and Arterial Spin Labeling Brain MRI Features of Transitional Venous Anomalies.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*
Zhang, M. n., Telischak, N. A., Fischbein, N. J., Steinberg, G. K., Marks, M. n., Zaharchuk, G. n., Heit, J. J., Iv, M. n.
2017
- **Imaging of Intracranial Hemorrhage.** *Journal of stroke*
Heit, J. J., Iv, M., Wintermark, M.
2017; 19 (1): 11-27
- **Percutaneous use of a dual lumen Scepter XC balloon for embolization of a complex facial arteriovenous malformation: a technical report** *CLINICAL NEURORADIOLOGY*
Heit, J., Connolly, I., Choudhri, O.
2016; 26 (4): 485-491
- **Detection and characterization of intracranial aneurysms: a 10-year multidetector CT angiography experience in a large center.** *Journal of neurointerventional surgery*
Heit, J. J., Gonzalez, R. G., Sabbag, D., Brouwers, H. B., Ordonez Rubiano, E. G., Schaefer, P. W., Hirsch, J. A., Romero, J. M.
2016; 8 (11): 1168-1172
- **Detection and characterization of intracranial aneurysms: a 10-year multidetector CT angiography experience in a large center** *JOURNAL OF NEUROINTERVENTIONAL SURGERY*
Heit, J. J., Gonzalez, R. G., Sabbag, D., Brouwers, H. B., Rubiano, E. G., Schaefer, P. W., Hirsch, J. A., Romero, J. M.
2016; 8 (11): 1168-1172
- **Headway Duo microcatheter for cerebral arteriovenous malformation embolization with n-BCA.** *Journal of neurointerventional surgery*
Heit, J. J., Faisal, A. G., Telischak, N. A., Choudhri, O., Do, H. M.
2016; 8 (11): 1181-1185
- **Initial experience with SOFIA as an intermediate catheter in mechanical thrombectomy for acute ischemic stroke.** *Journal of neurointerventional surgery*
Wong, J. H., Do, H. M., Telischak, N. A., Moraff, A. M., Dodd, R. L., Marks, M. P., Ingle, S. M., Heit, J. J.
2016
- **Cerebral vascular findings in PAPA syndrome: cerebral arterial vasculopathy or vasculitis and a posterior cerebral artery dissecting aneurysm.** *Journal of neurointerventional surgery*
Khatibi, K., Heit, J. J., Telischak, N. A., Elbers, J. M., Do, H. M.

2016; 8 (8)

- **Detection of Cortical Venous Drainage and Determination of the Borden Type of Dural Arteriovenous Fistula by Means of 3D Pseudocontinuous Arterial Spin-Labeling MRI** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Amukotuwa, S. A., Heit, J. J., Marks, M. P., Fischbein, N., Bammer, R.
2016; 207 (1): 163-169
- **Reply.** *AJNR. American journal of neuroradiology*
Heit, J. J., Rabinov, J. D.
2016; 37 (6): E54-?
- **Acute Stroke Imaging Research Roadmap III Imaging Selection and Outcomes in Acute Stroke Reperfusion Clinical Trials Consensus Recommendations and Further Research Priorities** *STROKE*
Warach, S. J., Luby, M., Albers, G. W., Bammer, R., Bivard, A., Campbell, B. C., Derdeyn, C., Heit, J. J., Khatri, P., Lansberg, M. G., Liebeskind, D. S., Majoi, C. B., Marks, et al
2016; 47 (5): 1389-1398
- **Perfusion Computed Tomography for the Evaluation of Acute Ischemic Stroke Strengths and Pitfalls** *STROKE*
Heit, J. J., Wintermark, M.
2016; 47 (4): 1153-1158
- **Perfusion Computed Tomography for the Evaluation of Acute Ischemic Stroke: Strengths and Pitfalls.** *Stroke; a journal of cerebral circulation*
Heit, J. J., Wintermark, M.
2016
- **Cerebral Angiography for Evaluation of Patients with CT Angiogram-Negative Subarachnoid Hemorrhage: An 11-Year Experience.** *AJR. American journal of neuroradiology*
Heit, J. J., Pastena, G. T., Nogueira, R. G., Yoo, A. J., Leslie-Mazwi, T. M., Hirsch, J. A., Rabinov, J. D.
2016; 37 (2): 297-304
- **Cerebral Angiography for Evaluation of Patients with CT Angiogram-Negative Subarachnoid Hemorrhage: An 11-Year Experience** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Heit, J. J., Pastena, G. T., Nogueira, R. G., Yoo, A. J., Leslie-Mazwi, T. M., Hirsch, J. A., Rabinov, J. D.
2016; 37 (2): 297-304
- **Guidelines and parameters: percutaneous sclerotherapy for the treatment of head and neck venous and lymphatic malformations.** *Journal of neurointerventional surgery*
Heit, J. J., Do, H. M., Prestigiacomo, C. J., Delgado-Almandoz, J. A., English, J., Gandhi, C. D., Albequerque, F. C., Narayanan, S., Blackham, K. A., Abruzzo, T., Albani, B., Fraser, J. F., Heck, et al
2016
- **Development of arteriovenous fistula after revascularization bypass for Moyamoya disease: case report.** *Neurosurgery*
Feroze, A. H., Kushkuley, J., Choudhri, O., Heit, J. J., Steinberg, G. K., Do, H. M.
2015; 11: E202-6
- **Development of Arteriovenous Fistula After Revascularization Bypass for Moyamoya Disease: Case Report** *OPERATIVE NEUROSURGERY*
Feroze, A. H., Kushkuley, J., Choudhri, O., Heit, J. J., Steinberg, G. K., Do, H. M.
2015; 11 (1): E202-E206
- **Imaging selection for reperfusion therapy in acute ischemic stroke.** *Current treatment options in neurology*
Heit, J. J., Wintermark, M.
2015; 17 (2): 332-?
- **Imaging selection for reperfusion therapy in acute ischemic stroke.** *Current treatment options in neurology*
Heit, J. J., Wintermark, M.
2015; 17 (2): 332-?
- **Persistent trigeminal artery supply to an intrinsic trigeminal nerve arteriovenous malformation: A rare cause of trigeminal neuralgia.** *Journal of clinical neuroscience*
Choudhri, O., Heit, J. J., Feroze, A. H., Chang, S. D., Dodd, R. L., Steinberg, G. K.
2015; 22 (2): 409-412

- **Cerebral vascular findings in PAPA syndrome: cerebral arterial vasculopathy or vasculitis and a posterior cerebral artery dissecting aneurysm.** *BMJ case reports*
Khatibi, K., Heit, J. J., Telischak, N. A., Elbers, J. M., Do, H. M.
2015; 2015
- **Cerebral angioplasty using the Scepter XC dual lumen balloon for the treatment of vasospasm following intracranial aneurysm rupture** *JOURNAL OF NEUROINTERVENTIONAL SURGERY*
Heit, J. J., Choudhri, O., Marks, M. P., Dodd, R. L., Do, H. M.
2015; 7 (1): 56-61
- **Unruptured intracranial aneurysms conservatively followed with serial CT angiography: could morphology and growth predict rupture?** *JOURNAL OF NEUROINTERVENTIONAL SURGERY*
Mehan, W. A., Romero, J. M., Hirsch, J. A., Sabbag, D. J., Gonzalez, R. G., Heit, J. J., Schaefer, P. W.
2014; 6 (10): 761-766
- **Endovascular reconstruction of enlarging traumatic internal carotid artery pseudoaneurysm.** *Neurosurgical focus*
Choudhri, O., Heit, J., Do, H. M.
2014; 37 (1): 1-?
- **E-013 endovascular management of pseudoaneurysms secondary to external ventricular drain placement: single center experience.** *Journal of neurointerventional surgery*
Choudhri, O., Gupta, M., Heit, J., Feroze, A., Do, H.
2014; 6: A43-4
- **Endovascular management of external ventricular drain-associated cerebrovascular injuries.** *Surgical neurology international*
Choudhri, O., Gupta, M., Feroze, A. H., Heit, J. J., Do, H. M.
2014; 5: 167-?
- **Prospective Validation of the Computed Tomographic Angiography Spot Sign Score for Intracerebral Hemorrhage** *STROKE*
Romero, J. M., Brouwers, H. B., Lu, J., Almadoz, J. E., Kelly, H., Heit, J., Goldstein, J., Rosand, J., Gonzalez, R. G.
2013; 44 (11): 3097-3102
- **Impact of online education on intern behaviour around joint commission national patient safety goals: a randomised trial** *BMJ QUALITY & SAFETY*
Shaw, T. J., Pernar, L. I., Peyre, S. E., Helfrick, J. F., Vogelgesang, K. R., Graydon-Baker, E., Chretien, Y., Brown, E. J., Nicholson, J. C., Heit, J. J., Co, J. P., Gandhi, T.
2012; 21 (10): 819-825
- **Spot sign score predicts rapid bleeding in spontaneous intracerebral hemorrhage.** *Emergency radiology*
Romero, J. M., Heit, J. J., Delgado Almadoz, J. E., Goldstein, J. N., Lu, J., Halpern, E., Greenberg, S. M., Rosand, J., Gonzalez, R. G.
2012; 19 (3): 195-202
- **Safety and Efficacy of Percutaneous Fiducial Marker Implantation for Image-guided Radiation Therapy** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
Kothary, N., Heit, J. J., Louie, J. D., Kuo, W. T., Loo, B. W., Koong, A., Chang, D. T., Hovsepian, D., Sze, D. Y., Hofmann, L. V.
2009; 20 (2): 235-239
- **Menin controls growth of pancreatic beta-cells in pregnant mice and promotes gestational diabetes mellitus** *SCIENCE*
Karnik, S. K., Chen, H., McLean, G. W., Heit, J. J., Gu, X., Zhang, A. Y., Fontaine, M., Yen, M. H., Kim, S. K.
2007; 318 (5851): 806-809
- **Calcineurin/NFAT signalling in the beta-cell: from diabetes to new therapeutics** *BIOESSAYS*
Heit, J. J.
2007; 29 (10): 1011-1021
- **Calcineurin/NFAT signalling regulates pancreatic beta-cell growth and function** *NATURE*
Heit, J. J., Apelqvist, A. A., Gu, X., Winslow, M. M., Neilson, J. R., Crabtree, G. R., Kim, S. K.
2006; 443 (7109): 345-349
- **NFAT dysregulation by increased dosage of DSCR1 and DYRK1A on chromosome 21** *NATURE*
Arron, J. R., Winslow, M. M., Polleri, A., Chang, C., Wu, H., Gao, X., Neilson, J. R., Chen, L., Heit, J. J., Kim, S. K., Yamasaki, N., Miyakawa, T., Francke, et al

2006; 441 (7093): 595-600

• **Intrinsic regulators of pancreatic beta-cell proliferation** *ANNUAL REVIEW OF CELL AND DEVELOPMENTAL BIOLOGY*

Heit, J. J., Karnik, S. K., Kim, S. K.

2006; 22: 311-338

• **Embryonic stem cells and islet replacement in diabetes mellitus** *PEDIATRIC DIABETES*

Heit, J. J., Kim, S. K.

2004; 5: 5-15

• **N-terminal domain of yeast telomerase reverse transcriptase: Recruitment of Est3p to the telomerase complex** *MOLECULAR BIOLOGY OF THE CELL*

Friedman, K. L., Heit, J. J., Long, D. M., Cech, T. R.

2003; 14 (1): 1-13

• **Growth inhibitors promote differentiation of insulin-producing tissue from embryonic stem cells** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

Hori, Y., Rulifson, I. C., Tsai, B. C., Heit, J. J., Cahoy, J. D., Kim, S. K.

2002; 99 (25): 16105-16110