



Jeremy J. Heit, MD, PhD

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

CLINICAL OFFICES

- **Stanford Neuroscience Health Center**

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Bio

BIO

Dr. Jeremy Heit is an Assistant Professor of Radiology and of Neurosurgery and the interim Chief of Neuroradiology 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 100 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

- Diagnostic Radiology
- Stroke
- Cerebral Aneurysms
- Dural Arteriovenous Fistula
- Cerebral Arteriovenous Malformation (AVM)

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 (Interim), Stanford University Medical Center, (2022- present)
- Director, Stroke Neuroradiology, Stanford Stroke Center, Stanford University Hospital, (2021- present)
- Neurointerventional Radiology Fellowship Director, 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 – 2/2102)
- 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
- 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.

www.heitlab.com

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

Sophie Ostmeier

Doctoral Dissertation Reader (NonAC)

Matine Azadian

Publications

PUBLICATIONS

- **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., Hutchison, K., Kobeissi, H., Heiferman, D. M., Heit, J. J.
2022: 15910199221100796
- **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., Alemseged, 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-Reperused 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., Giurgutiu, 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., Thalamos, 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., McMenemy, 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
- **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.**
Dehkharghani, 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., McMenemy, 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., Kaw, 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
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