

Stanford



Michael P. Marks, MD

Professor of Radiology (General Radiology), Emeritus

CLINICAL OFFICE (PRIMARY)

- **Lab and Radiology Clinic**

730 Welch Rd 1st Fl
Palo Alto, CA 94304

Tel (650) 497-8376 **Fax** (650) 498-5374

ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Susan Mir - Administrative Assistant

Email susanmir@stanford.edu

Tel 650-736-6172

Bio

CLINICAL FOCUS

- Interventional Neuroradiology
- Cerebrovascular Disorders
- Stroke Treatment and Imaging
- Brain Aneurysms
- Arteriovenous Malformations
- Neuroradiology

ACADEMIC APPOINTMENTS

- Professor Emeritus-Hourly, Radiology

ADMINISTRATIVE APPOINTMENTS

- Chief, Interventional Neuroradiology, Stanford University Medical Center, (1992-2021)
- Director of Neuroradiology, Stanford Stroke Center, (1991-2021)

PROFESSIONAL EDUCATION

- Fellowship: Stanford University School of Medicine (1988) CA
- Residency: LAC and USC Medical Center (1986) CA
- Board Certification: Diagnostic Radiology, American Board of Radiology (1986)
- Certificate Added Qualification, Neuroradiology, American Board of Radiology (1996)
- Maintenance Certification, Neuroradiology, American Board of Radiology (2009)
- Internship: Boston City Hospital (1981) MA
- Medical Education: Boston Univ Medical Center (1980) MA

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Interventional neuroradiology; cerebral arteriovenous malformations; stroke treatment and imaging; cerebral aneurysms

CLINICAL TRIALS

- Endovascular Therapy Following Imaging Evaluation for Ischemic Stroke 3, Not Recruiting

Publications

PUBLICATIONS

- **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
- **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
- **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
- **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
- **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
- **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
- **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
- **Radiosurgery as a microsurgical adjunct: outcomes after microsurgical resection of intracranial arteriovenous malformations previously treated with stereotactic radiosurgery.** *Journal of neurosurgery*
Bigder, M., Choudhri, O., Gupta, M., Gummidipundi, S., Han, S. S., Church, E. W., Chang, S. D., Levy, R. P., Do, H. M., Marks, M. P., Steinberg, G. K.
2021: 1-12
- **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
- **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
- **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
 - **Spontaneous regression of a vein of Galen aneurysmal malformation in a pediatric patient: illustrative case.** *Journal of neurosurgery. Case lessons*
Kumar, K. K., Fornoff, L. E., Dodd, R. L., Marks, M. P., Hong, D. S.
2021; 1 (8): CASE20171
 - **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
 - **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
 - **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
 - **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
 - **Efficacy and safety of embolization of dural arteriovenous fistulas via the ophthalmic artery.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*
Mayercik, 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

- **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
- **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): e7997
- **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)
- **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
- **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
- **Unfavorable Baseline Hypoperfusion Intensity Ratio is Associated With Infarct Growth and Poor Outcome in Patients With Distal MCA Occlusions**
MacLellan, A., Mlynash, M., Kemp, S., Christensen, S., Marks, M., Lansberg, M., Albers, G.
LIPPINCOTT WILLIAMS & WILKINS.2020
- **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
- **Use of Deep Learning to Predict Final Ischemic Stroke Lesions From Initial Magnetic Resonance Imaging.** *JAMA network open*
Yu, Y. n., Xie, Y. n., Thamm, T. n., Gong, E. n., Ouyang, J. n., Huang, C. n., Christensen, S. n., Marks, M. P., Lansberg, M. G., Albers, G. W., Zaharchuk, G. n.
2020; 3 (3): e200772
- **Quantitative Characterization of Recanalization and Distal Emboli with a Novel Thrombectomy Device.** *Cardiovascular and interventional radiology*
Chueh, J. Y., Marosfoi, M. G., Anagnostakou, V. n., Arslanian, R. A., Marks, M. P., Gounis, M. J.
2020
- **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

- **Multimodal management of arteriovenous malformations of the basal ganglia and thalamus: factors affecting obliteration and outcome** *JOURNAL OF NEUROSURGERY*
Madhugiri, V. S., Teo, M. C., Westbroek, E. M., Chang, S. D., Marks, M. P., Do, H. M., Levy, R. P., Steinberg, G. K.
2019; 131 (2): 410–19
- **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
- **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
- **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
- **Surgical Treatment of Recurrent Previously Coiled and/or Stent-Coiled Intracerebral Aneurysms: A Single-Center Experience in a Series of 75 Patients** *WORLD NEUROSURGERY*
Liu, J. J., Nielsen, T. H., Abhinav, K., Lee, J., Han, S. S., Marks, M. P., Do, H. M., Dodd, R. L., Steinberg, G. K.
2019; 124: E649–E658
- **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
- **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
- **DEFUSE 3 Non-DAWN Patients A Closer Look at Late Window Thrombectomy Selection** *STROKE*
Leslie-Mazwi, T. M., Hamilton, S., Mlynash, M., Patel, A. B., Schwamm, L. H., Lansberg, M. G., Marks, M., Hirsch, J. A., Albers, G. W.
2019; 50 (3): 618–25

- **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
- **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
- **DEFUSE 3 Non-DAWN Patients. Stroke**
Leslie-Mazwi, T. M., Hamilton, S., Mlynash, M., Patel, A. B., Schwamm, L. H., Lansberg, M. G., Marks, M., Hirsch, J. A., Albers, G. W.
2019: STROKEAHA118023310
- **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
- **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
- **A Closer Look at Late Window Thrombectomy Selection**
Leslie-Mazwi, T. M., Hamilton, S., Mlynash, M., Patel, A. B., Schwamm, L. H., Lansberg, M. G., Marks, M. P., Hirsch, J. A., Albers, G. W.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **CT Perfusion Collateral Score Predicts Which Patients Will Maintain a Penumbra 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., Mlynash, 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.
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 - **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
 - **Thrombectomy With Conscious Sedation Increases Functional Independence Compared to General Anesthesia: A DEFUSE-3 Post-hoc Analysis**
Dornbos, D. L., Powers, C. J., Mlynash, M., Gulati, D., Torbey, M., Nimjee, S. M., Lansberg, M. G., Marks, M. P.
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*
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