

Stanford



Maarten Lansberg, MD, PhD

Professor of Neurology and, by courtesy, of Neurosurgery
Neurology & Neurological Sciences

CLINICAL OFFICES

- **Stanford Neuroscience Health Center**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Evelyn Ray - Administrative Assistant

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Bio

BIO

As a Professor in the Department of Neurology and Neurological Sciences at Stanford University Medical Center, I split my time between clinical activities on the inpatient stroke service and in the ambulatory stroke clinic at Stanford Hospital, clinical stroke research, and education. I am board-certified in Neurology and Vascular Neurology and have additional advanced training in MR imaging and Epidemiology. I am the director of Stanford's Stroke Research Fellowship and co-director of Stanford's Stroke Recovery Program. I am the co-principal investigator of the Stanford Regional Coordinating Center (RCC) for StrokeNet, an NINDS-funded network of 25 RCCs that is responsible for conducting all major NINDS-funded stroke trials.

CLINICAL FOCUS

- Neurology
- Stroke
- Cerebrovascular Disease

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Neurology & Neurological Sciences
- Professor - University Medical Line (By courtesy), Neurosurgery
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Vascular Neurology Fellowship (2004) CA
- Residency: UCSF Dept of Neurology (2003) CA
- Internship: Greater Baltimore Medical Center Internal Medicine Residency (2000) MD
- Medical Education: University Medical Center Utrecht (1997) Netherlands
- Board Certification: Vascular Neurology, American Board of Psychiatry and Neurology (2012)

- Board Certification: Neurology, American Board of Psychiatry and Neurology (2004)
- MS, Stanford University , Epidemiology (2008)
- Ph.D., Univ of Utrecht, The Netherlands , Diffusion-Weighted MRI in Stroke (2002)
- M.D., Univ of Utrecht, The Netherlands (1997)

LINKS

- Stanford Stroke Center: <http://strokecenter.stanford.edu>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research is focused on clinical trials for stroke, spanning the full breadth of stroke care, including acute intervention, prevention, and recovery trials. The majority of my NIH funded research has centered on the use of imaging biomarkers (specifically multimodal CT and MRI) to select patients for acute stroke interventions. I have served as the principal investigator of CRISP, a prospective cohort study to assess the utility of CT perfusion for patient selection and the Protocol Director of DEFUSE 3, a Phase 3 randomized controlled trial of endovascular therapy for acute stroke in the 6-16 hour time-window. DEFUSE 3 was conducted at 38 US sites and was the first trial to be funded and executed through StrokeNet, the NINDS clinical stroke trial network.

CLINICAL TRIALS

- Clot Lysis: Evaluating Accelerated Resolution of Intraventricular Hemorrhage Phase III, Recruiting
- Virtual Reality Glove for Hand and Arm Rehabilitation After Stroke, Recruiting
- Computed Tomography Perfusion (CTP) to Predict Response to Recanalization in Ischemic Stroke Project (CRISP), Not Recruiting
- Efficacy and Safety Study of Desmoteplase to Treat Acute Ischemic Stroke (DIAS-4), Not Recruiting
- Efficacy and Safety Trial of Transcranial Laser Therapy Within 24 Hours From Stroke Onset (NEST-3), Not Recruiting
- Endovascular Therapy Following Imaging Evaluation for Ischemic Stroke 3, Not Recruiting
- Feasibility of Home-based Virtual Reality Rehabilitation for the Upper Extremity in Subacute and Chronic Stroke, Not Recruiting
- Imaging Collaterals in Acute Stroke (iCAS), Not Recruiting
- Insulin Resistance Intervention After Stroke Trial, Not Recruiting
- Transient Ischemic Attack (TIA) Triage and Evaluation of Stroke Risk, Not Recruiting

Teaching

COURSES

2022-23

- Stroke Seminar: NENS 204 (Win)

2021-22

- Stroke Seminar: NENS 204 (Win)

2020-21

- Stroke Seminar: NENS 204 (Win)

2019-20

- Stroke Seminar: NENS 204 (Win)

STANFORD ADVISEES

Med Scholar Project Advisor

Laura Polding

Publications

PUBLICATIONS

- **Characteristics of Younger and Older Adults with Hospital-Acquired Delirium: a Claims Data Study Spanning 14 years** *J GEN INTERN MED*
Rohatgi, N., Weng, Y., Ahuja, N., Lansberg, M. G.
2021
- **Factors Associated with Hospital-Acquired Delirium in Patients 18–65 Years Old** *J GEN INTERN MED*
Rohatgi, N., Weng, Y., Ahuja, N., Lansberg, M. G.
2021
- **Optimizing Patient Selection for Endovascular Treatment in Acute Ischemic Stroke (SELECT): A Prospective Multicenter Cohort Study of Imaging Selection** (vol 87, pg 419, 2020) *ANNALS OF NEUROLOGY*
Sarraj, A., Hassan, A. E., Grotta, J., Sitton, C., Cutter, G., Cai, C., Chen, P. R., Imam, B., Pujara, D., Arora, A., Reddy, S., Parsha, K., Riascos, et al
2020
- **Perioperative Stroke Risk Reduction in Patients With Patent Foramen Ovale.** *JAMA neurology*
Rohatgi, N., Smilowitz, N. R., Lansberg, M. G.
2020
- **Natalizumab in acute ischemic stroke (ACTION II): a randomized, placebo-controlled trial.** *Neurology*
Elkind, M. S., Veltkamp, R., Montaner, J., Johnston, S. C., Singhal, A. B., Becker, K., Lansberg, M. G., Tang, W., Kasliwal, R., Elkins, J.
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
- **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
- **Review of Perfusion Imaging in Acute Ischemic Stroke: From Time to Tissue.** *Stroke*
Demeestere, J., Wouters, A., Christensen, S., Lemmens, R., Lansberg, M. G.
2020: STROKEAHA119028337
- **Optimizing Patient Selection for Endovascular Treatment in Acute Ischemic Stroke (SELECT): A Prospective Multicenter Cohort Study of Imaging Selection.** *Annals of neurology*
Sarraj, A., Hassan, A. E., Grotta, J., Sitton, C., Cutter, G., Cai, C., Chen, P. R., Imam, B., Pujara, D., Arora, A., Reddy, S., Parsha, K., Riascos, et al
2020

- **National Institutes of Health StrokeNet During the Time of COVID-19 and Beyond.** *Stroke*
Broderick, J. P., Elm, J. J., Janis, L. S., Zhao, W. n., Moy, C. S., Dillon, C. R., Chimowitz, M. I., Sacco, R. L., Cramer, S. C., Wolf, S. L., Johnston, K. C., Saver, J. L., Marshall, et al
2020; 51 (8): 2580–86
- **A longitudinal study of the post-stroke immune response and cognitive functioning: the StrokeCog study protocol.** *BMC neurology*
Drag, L. L., Mlynash, M. n., Nassar, H. n., Osborn, E. n., Kim, D. E., Angst, M. S., Aghaeepour, N. n., Buckwalter, M. n., Lansberg, M. G.
2020; 20 (1): 313
- **Sex Differences in Oral Anticoagulation and Outcomes of Stroke and Intracranial Bleeding in Newly Diagnosed Atrial Fibrillation.** *Journal of the American Heart Association*
Yong, C. M., Tremmel, J. A., Lansberg, M. G., Fan, J. n., Askari, M. n., Turakhia, M. P.
2020: e015689
- **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
- **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
- **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
- **Stroke epidemiology and stroke policies in China from 1980 to 2017: A systematic review and meta-analysis.** *International journal of stroke : official journal of the International Stroke Society*
Hu, S., Cui, B., Mlynash, M., Zhang, X., Mehta, K. M., Lansberg, M. G.
2019: 1747493019873562
- **CT perfusion in acute stroke: Practical guidance for implementation in clinical practice** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
Christensen, S., Lansberg, M. G.
2019; 39 (9): 1664–68
- **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
- **Outcomes of Endovascular Thrombectomy vs Medical Management Alone in Patients With Large Ischemic Cores: A Secondary Analysis of the Optimizing Patient's Selection for Endovascular Treatment in Acute Ischemic Stroke (SELECT) Study.** *JAMA neurology*
Sarraj, A., Hassan, A. E., Savitz, S., Sitton, C., Grotta, J., Chen, P., Cai, C., Cutter, G., Imam, B., Reddy, S., Parsha, K., Pujara, D., Riascos, et al
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
- **Initiative for prevention and early identification of delirium in medical-surgical units: Lessons learnt in the past five years.** *The American journal of medicine*
Rohatgi, N., Weng, Y., Bentley, J., Lansberg, M. G., Shepard, J., Mazur, D., Ahuja, N., Hopkins, J.
2019
- **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

- **A YEAR-LONG IMMUNE PROFILE OF THE SYSTEMIC RESPONSE IN ACUTE STROKE SURVIVORS**
Tsai, A., Berry, K., Beneyto, M. M., Gaudilliere, D., Ganio, E. A., Culos, A., Ghaemi, M. S., Choisy, B., Djebali, K., Einhaus, J. F., Bertrand, B., Tanada, A., Stanley, et al
LIPPINCOTT WILLIAMS & WILKINS.2019: 155
- **Artificial Neural Network Computer Tomography Perfusion Prediction of Ischemic Core** *STROKE*
Kasasbeh, A. S., Christensen, S., Parsons, M. W., Campbell, B., Albers, G. W., Lansberg, M. G.
2019; 50 (6): 1578–81
- **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
- **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
- **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
- **STAIR X.** *Stroke*
Demchuk, A. M., Albers, G. W., Nogueira, R. G., STAIR X Consortium *, STAIR X (Stroke Treatment Academic Industry Roundtable) writing contributors, Alexandrov, A. V., Arbe-Barnes, S., Baron, J., Boltze, J., Broderick, J. P., Broschat, K., Campbell, B. C., Derdeyn, C. P., Elkind, et al
2019: STROKEAHA119024337
- **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
- **A year-long immune profile of the systemic response in acute stroke survivors.** *Brain : a journal of neurology*
Tsai, A. S., Berry, K., Beneyto, M. M., Gaudilliere, D., Ganio, E. A., Culos, A., Ghaemi, M. S., Choisy, B., Djebali, K., Einhaus, J. F., Bertrand, B., Tanada, A., Stanley, 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
- **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
- **Feasibility and Utility of Home-Based Gait Analysis Using Body-Worn Sensors**
Huang, E., Sharp, M. T., Osborn, E., MacLellan, A., Mlynash, M., Kemp, S., Buckwalter, M. S., Lansberg, M. G.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Deep Immune Profiling of the Post-Stroke Peripheral Immune Response Reveals Tri-phasic Response and Correlations With Long-Term Cognitive Outcomes**
Tsai, A. S., Berry, K., Beneyto, M. M., Gaudilliere, D., Ganio, E. A., Choisy, B., Djebali, K., Baca, Q., Quach, L., Drag, L., Lansberg, M. G., Angst, M. S., Gaudilliere, et al
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Ischemic Core Volume Modifies the Association Between ASPECT Score and Clinical Outcome.**
Sarraj, A., Hassan, A., Grotta, J., Sitton, C., Chen, P. R., Cai Chunyan, Cutter, G., Pujara, D., Imam, B., Reddy, S., Kamal, H., Abraham, M., McCullough, L., et al
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Early Infarct Growth Correlates With Both Collateral Status and Clinical Outcomes After Thrombectomy**
Sarraj, A., Savitz, S., Sitton, C., Hassan, A., Cai Chunyuan, Pujara, D., Grotta, J., Imam, B., Chen, P. R., Cutter, G., Reddy, S., Kamal, H., Abraham, M., et al
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Comparison of Predicted vs. Actual Enrollment Into the NIH StrokeNet DEFUSE 3 Trial: Effectiveness of a Population-Based Epidemiology Feasibility Assessment in Improving Enrollment Into Clinical Trials.**
Kleindorfer, D. O., Moomaw, C. J., Mlynash, M., Broderick, J. P., Khatri, P., Saver, J. L., Alwell, K., Kemp, S., Janis, S., Moy, C., Woo, D., Flaherty, M. L., Ferioli, et al
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
- **Deep Learning Based Prediction of Tissue Status From Native CT Perfusion Images.**
Robben, D., Christensen, S., Boers, A. M., Marquering, H. A., Majoie, C. B., van Oostenbrugge, R. J., Roos, Y. B., Dippel, D. W., van Zwam, W. H., van der Lugt, A., Lansberg, M. G., Albers, G. W., Suetens, et al
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Endovascular Thrombectomy May Be Safe and Effective in Patients With Large Core Lesions on Either Simple CT or Perfusion Images**
Sarraj, A., Hassan, A., Grotta, J., Sitton, C., Chen, P. R., Vora, N., Cai Chuyan, Cutter, G., Pujara, D., Imam, B., Reddy, S., Kamal, H., Abraham, M., et al
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Evaluating the Generalizability of the Common Odds Ratio: A Demonstration using Two Trials of Endovascular Therapy.**
Yeatts, S. D., Mlynash, M., Lavori, P. W., Albers, G. W., Lansberg, M. G., Broderick, J. P., Palesch, Y. Y., Hamilton, S.
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

● **A Closer Look at Late Window Thrombectomy Selection**

Lesile-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.

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

● **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***

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

- **A Relative Noncontrast CT Map to Detect Early Ischemic Changes in Acute Stroke.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*
Srivatsan, A., Christensen, S., Lansberg, M. G.
2019
- **Contralateral Hemispheric Cerebral Blood Flow Measured With Arterial Spin Labeling Can Predict Outcome in Acute Stroke.** *Stroke*
Thamm, T. n., Guo, J. n., Rosenberg, J. n., Liang, T. n., Marks, M. P., Christensen, S. n., Do, H. M., Kemp, S. M., Adair, E. n., Eyngorn, I. n., Mlynash, M. n., Jovin, T. G., Keogh, et al
2019: STROKEAHA119026499
- **Artificial Neural Network Computer Tomography Perfusion Prediction of Ischemic Core.** *Stroke*
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