Stanford



Maarten Lansberg, MD, PhD

Professor of Neurology and Neurological Sciences (Adult Neurology) and, by courtesy, of Neurosurgery

CLINICAL OFFICE (PRIMARY)

- **Stanford Neuroscience Health Center**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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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 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

- Stroke
- Cerebrovascular Disease
- Neurology

ACADEMIC APPOINTMENTS

- Professor-Univ Med Line, Adult Neurology
- Professor-Univ Med Line (By courtesy), Neurosurgery
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- 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

- StrokeCog-BBB to Study Cognitive Outcomes Following Stroke, Recruiting
- Effectiveness of BP Remote Monitoring With Virtual Physician Management in Hypertensive Patients., 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
- Virtual Reality Glove for Hand and Arm Rehabilitation After Stroke, Not Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Praneeta Konduri

Publications

PUBLICATIONS

- **Underestimation of Follow-Up Infarct Volume by Acute CT Perfusion Imaging (vol 104, e213439, 2025)** *NEUROLOGY*
  Demeestere, J., Verhaaren, B. F. J., Christensen, S., Wouters, A., Albers, G. W., Lansberg, M. G., Lemmens, R.
  2025; 104 (10): e213698
- **Impact of Helicopter Transfer on Recanalization and Outcomes in Anterior Large Vessel Occlusion Strokes.** *Stroke*
  Ter Schiphorst, A., Seners, P., Wouters, A., Yuen, N., Mlynash, M., Heit, J. J., Kemp, S., Christensen, S., Sablot, D., Wacongne, A., Lalu, T., Philippe, A., Arquizan, et al
  2025
- **The Cortical Vein Opacification Score (COVES) is independently associated with good and excellent functional outcomes at 90-days in minor stroke patients with anterior circulation large vessel occlusion: A Multicenter Study.** *AJNR. American journal of neuroradiology*
  Lakhani, D. A., Salim, H., Balar, A. B., Ali, S., Wen, S., Mei, J., Hillis, A. E., Urrutia, V. C., Xu, R., Broocks, G., Fiehler, J., Kniep, H. C., Stracke, et al

2025

- **Acute Ischemic Stroke Patient Factors Associated with Poor Outcomes in Patients with Favorable Collaterals and Successful Thrombectomy.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
  Kesten, J., Mlynash, M., Yuen, N., Seners, P., Wouters, A., Schwartz, M., Albers, G. W., Lansberg, M. G., Heit, J. J.
  2025: 108311

- **Underestimation of Follow-Up Infarct Volume by Acute CT Perfusion Imaging.** *Neurology*
  Demeestere, J., Verhaaren, B. F., Christensen, S., Wouters, A., Albers, G. W., Lansberg, M. G., Lemmens, R.
  2025; 104 (7): e213439

- **Alteplase for Posterior Circulation Ischemic Stroke at 4.5 to 24 Hours.** *The New England journal of medicine*
  Yan, S., Zhou, Y., Lansberg, M. G., Liebeskind, D. S., Yuan, C., Yu, H., Chen, F., Chen, H., Zhang, B., Mao, L., Zhang, X., Wang, X., Zhang, et al
  2025; 392 (13): 1288-1296

- **Deep Learning Applications in Imaging of Acute Ischemic Stroke: A Systematic Review and Narrative Summary.** *Radiology*
  Jiang, B., Pham, N., van Staalduinen, E. K., Liu, Y., Nazari-Farsani, S., Sanaat, A., van Voorst, H., Fettahoglu, A., Kim, D., Ouyang, J., Kumar, A., Srivatsan, A., Hussein, et al
  2025; 315 (1): e240775

- **Association of Ischemic Core Hypodensity With Thrombectomy Treatment Effect in Large Core Stroke: A Secondary Analysis of the SELECT2 Randomized Controlled Trial.** *Stroke*
  Yogendrakumar, V., Campbell, B. C., Johns, H., Churilov, L., Ng, F. C., Sitton, C. W., Hassan, A. E., Abraham, M. G., Ortega-Gutierrez, S., Hussain, M. S., Chen, M., Kasner, S. E., Sharma, et al
  2025

- **Apixaban to Prevent Covert Infarcts After Cryptogenic Stroke in Patients With Atrial Cardiopathy: A Secondary Analysis of the ARCADIA Randomized Clinical Trial.** *JAMA neurology*
  Lansberg, M. G., Wintermark, M., Chen, H., Howard, G., Cassarly, C., Pauls, Q., Kemp, S., Harris, T. L., Krishnaiah, B., Stanton, R. J., Lyerly, M. J., Miller, B. R., Smith, et al
  2025

- **Critical Care Decisions After Large Core Cerebral Infarctions: A Secondary Analysis From the SELECT2 Trial.** *Annals of neurology*
  Kasner, S. E., Mullen, M. T., DeGeorgia, M., Blackburn, S., George, D. K., Kumar, M., Messe, S., Abraham, M. G., Chen, M., Ortega-Gutierrez, S., Sitton, C. W., Burkhardt, J. K., Hussain, et al
  2024

- **Interfacility Transfer for Thrombectomy: A Promising Therapeutic Window.** *Stroke*
  Seners, P., Baron, J., Wouters, A., Desilles, J., Pico, F., Macrez, R., Olivot, J., Lemmens, R., Albers, G. W., Lansberg, M. G.
  2024

- **Poor venous outflow is associated with hyperintense acute reperfusion marker on follow-up MRI in patients with acute ischemic stroke with a large vessel occlusion.** *Journal of neurointerventional surgery*
  Zamarud, A., Yuen, N., Wouters, A., Mlynash, M., Hugdal, S. M., Seners, P., Kesten, J., Yedavalli, V., Faizy, T. D., Albers, G. W., Lansberg, M. G., Heit, J. J.
  2024

- **Feasibility of a blood pressure telemedicine program in the virtual age.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
  Sreekrishnan, A., Lansberg, M., Singer, A. E., Tennant, R. S., Howard, M., Buncom, J., Castillo, M., Rajasekhar, V., Kraler, L.
  2024: 108073

- **Prediction of Ischemic Stroke Functional Outcomes from Acute-Phase Noncontrast CT and Clinical Information.** *Radiology*
  Liu, Y., Yu, Y., Ouyang, J., Jiang, B., Ostmeier, S., Wang, J., Lu-Liang, S., Yang, Y., Yang, G., Michel, P., Liebeskind, D. S., Lansberg, M., Moseley, et al
  2024; 313 (1): e240137

- **Early penumbral FLAIR changes predict tissue fate in patients with large vessel occlusions.** *International journal of stroke : official journal of the International Stroke Society*
  Scheldeman, L., Seners, P., Wouters, A., Dupont, P., Christensen, S., Mlynash, M., Arquizan, C., Ter Schiphorst, A., Costalat, V., Henon, H., Bretzner, M., Albucher, J. F., Cognard, et al
  2024: 17474930241289235

- **Clinical and Imaging Features Associated With Fast Infarct Growth During Interhospital Transfers of Patients With Large Vessel Occlusions.** *Neurology*
  Wouters, A., Seners, P., Yuen, N., Mlynash, M., Heit, J. J., Kemp, S., Demeestere, J., Christensen, S., Albers, G. W., Lemmens, R., Lansberg, M. G.
  2024; 103 (6): e209814

- **Clinical and Perfusion Imaging Characteristics of Acute Large Vessel Occlusion in Intracranial Atherosclerosis: Clinical and Perfusion Imaging in ICAD-LVO.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
  Liu, H. Y., Heit, J. J., Yuen, N., Yang, C. H., Mlynash, M., Zamarud, A., Lun, R., Lansberg, M. G., Albers, G. W.
  2024: 108024

- **Perfusion imaging for delayed cerebral ischemia detection in patients following ruptured aneurysmal subarachnoid hemorrhage: Interrater reliability assessment.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*
  Bombardieri, A. M., Wouters, A., Seners, P., Zamarud, A., Mlynash, M., Yuen, N., Albers, G. W., Sussman, E. S., Pulli, B., Lansberg, M. G., Steinberg, G. K., Heit, J. J.
  2024: 15910199241277953

- **Deep venous outflow as a surrogate for collaterals in late-window patients with successful revascularization from the DEFUSE 3 cohort.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*
  Adusumilli, G., Faizy, T. D., Christensen, S., Mlynash, M., Loh, Y., Albers, G. W., Lansberg, M. G., Fiehler, J., Heit, J. J.
  2024: 15910199241276905

- **Author Response: Factors Associated With Fast Early Infarct Growth in Patients With Acute Ischemic Stroke With a Large Vessel Occlusion** *NEUROLOGY*
  Seners, P., Lansberg, M. G., Albers, G. W.
  2024; 103 (4): e209507

- **Dual-Energy CTA Iodine Map Reconstructions Improve Visualization of Residual Cerebral Aneurysms following Endovascular Coiling.** *AJNR. American journal of neuroradiology*
  Wolman, D. N., Kuraitis, G., Sussman, E., Pulli, B., Wouters, A., Wang, J., Wang, A., Lansberg, M. G., Heit, J. J.
  2024

- **Disability and Recurrent Stroke Among Participants in Stroke Prevention Trials.** *JAMA network open*
  de Havenon, A., Viscoli, C., Kleindorfer, D., Sucharew, H., Delic, A., Becker, C., Robinson, D., Yaghi, S., Li, V., Lansberg, M. G., Cramer, S. C., Mistry, E. A., Sarpong, et al
  2024; 7 (7): e2423677

- **Overestimation of the Ischemic Core Is Associated With Higher Core Lesion Volume and Degree of Reperfusion After Thrombectomy.** *Radiology*
  Broocks, G., Meyer, L., Winkelmeier, L., Kniep, H., Heitkamp, C., Christensen, S., Lansberg, M. G., Thaler, C., Kemmling, A., Schön, G., Zeleňák, K., Stracke, P. C., Albers, et al
  2024; 312 (1): e231750

- **Advancing diagnostic precision of delayed cerebral ischemia in aneurysmal subarachnoid hemorrhage: The potential for a vasospasm index score on perfusion imaging to detect vasospasm.** *European journal of radiology*
  Maria Bombardieri, A., Seners, P., Wouters, A., Zamarud, A., Mlynash, M., Yuen, N., Albers, G. W., Sussman, E. S., Pulli, B., Lansberg, M. G., Steinberg, G. K., Heit, J. J.
  2024; 178: 111578

- **Exploring the Limits of Endovascular Therapy for Large Core Patients: Where Do We Need More Data?** *Stroke*
  Albers, G. W., Heit, J. J., Lansberg, M. G., Inoue, M., Huo, X., Yedavalli, V. S., Seners, P., McCullough-Hicks, M., Cereda, C. W., Tsai, J. P., Mistry, E. A., Chatterjee, A. R., Derdeyn, et al
  2024

- **Arterial Recanalization During Interhospital Transfer for Thrombectomy.** *Stroke*
  Seners, P., Wouters, A., Ter Schiphorst, A., Yuen, N., Mlynash, M., Arquizan, C., Heit, J. J., Kemp, S., Christensen, S., Sablot, D., Wacongne, A., Lalu, T., Costalat, et al
  2024

- **Amnesia, Superior Altitudinal Anopia, and Reversed Clock Phenomenon due to Bilateral Posterior Cerebral Artery Infarcts.** *Stroke*
  Jindal, J. A., Le, S. T., Lansberg, M. G.
  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

- **Clinical relevance of intracranial hemorrhage after thrombectomy versus medical management for large core infarct: a secondary analysis of the SELECT2 randomized trial.** *Journal of neurointerventional surgery*
  Chen, M., Joshi, K. C., Kolb, B., Sitton, C. W., Pujara, D. K., Abraham, M. G., Ortega-Gutierrez, S., Kasner, S. E., Hussain, S. M., Churilov, L., Blackburn, S., Sundararajan, S., Hu, 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

- **Endovascular Thrombectomy Treatment Effect in Direct vs Transferred Patients With Large Ischemic Strokes: A Prespecified Analysis of the SELECT2 Trial.** *JAMA neurology*
  Sarraj, A., Hill, M. D., Hussain, M. S., Abraham, M. G., Ortega-Gutierrez, S., Chen, M., Kasner, S. E., Churilov, L., Pujara, D. K., Johns, H., Blackburn, S., Sundararajan, S., Hu, et al
  2024

- **Endovascular thrombectomy plus medical care versus medical care alone for large ischaemic stroke: 1-year outcomes of the SELECT2 trial.** *Lancet (London, England)*
  Sarraj, A., Abraham, M. G., Hassan, A. E., Blackburn, S., Kasner, S. E., Ortega-Gutierrez, S., Hussain, M. S., Chen, M., Johns, H., Churilov, L., Pujara, D. K., Shaker, F., Maali, 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

- **Tenecteplase for Stroke at 4.5 to 24 Hours with Perfusion-Imaging Selection.** *The New England journal of medicine*
  Albers, G. W., Jumaa, M., Purdon, B., Zaidi, S. F., Streib, C., Shuaib, A., Sangha, N., Kim, M., Froehler, M. T., Schwartz, N. E., Clark, W. M., Kircher, C. E., Yang, et al
  2024

- **Endovascular Thrombectomy for Large Ischemic Stroke Across Ischemic Injury and Penumbra Profiles.** *JAMA*
  Sarraj, A., Hassan, A. E., Abraham, M. G., Ortega-Gutierrez, S., Kasner, S. E., Hussain, M. S., Chen, M., Churilov, L., Johns, H., Sitton, C. W., Yogendrakumar, V., Ng, F. C., Pujara, et al
  2024

- **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., Mahammedi, A., Federau, et al
  2024

- **Insole Pressure Sensors to Assess Post-Stroke Gait.** *Annals of rehabilitation medicine*
  Nam, H. S., Clancy, C., Smuck, M., Lansberg, M. G.
  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

- **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

- **A systematic review on functional electrical stimulation based rehabilitation systems for upper limb post-stroke recovery.** *Frontiers in neurology*

  Khan, M. A., Fares, H., Ghayvat, H., Brunner, I. C., Puthusserypady, S., Razavi, B., Lansberg, M., Poon, A., Meador, K. J.

  2023; 14: 1272992

- **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

- **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

- **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

- **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., Mahammedi, A., Li, L. J., Zaharchuk, et al

  2023; 90: 102927

- **Machine learning models of plasma proteomic data predict mood in chronic stroke and tie it to aberrant peripheral immune responses.** *Brain, behavior, and immunity*

  Bidoki, N. H., Zera, K. A., Nassar, H., Drag, L. L., Mlynash, M., Osborn, E., Musabbir, M., Eun K Kim, D., Paula Mendez, M., Lansberg, M. G., Aghaeepour, N., Buckwalter, M. S.

  2023

- **Rates and reasons for hospital readmission after acute ischemic stroke in a US population-based cohort.** *PloS one*
  Zhou, L. W., Lansberg, M. G., de Havenon, A.
  2023; 18 (8): e0289640

- **Functional Outcome Prediction in Acute Ischemic Stroke Using a Fused Imaging and Clinical Deep Learning Model.** *Stroke*
  Liu, Y., Yu, Y., Ouyang, J., Jiang, B., Yang, G., Ostmeier, S., Wintermark, M., Michel, P., Liebeskind, D. S., Lansberg, M. G., Albers, G. W., Zaharchuk, G.
  2023

- **Infarct Core Growth During Interhospital Transfer For Thrombectomy Is Faster At Night.** *Stroke*
  Seners, P., Mlynash, M., Sreekrishnan, A., Ter Schiphorst, A., Arquizan, C., Costalat, V., Henon, H., Bretzner, M., Heit, J. J., Olivot, J. M., Lansberg, M. G., Albers, G. W.
  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

- **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

- **Daily vibrotactile stimulation from a wearable device exhibits equal or greater spasticity relief than botulinum toxin in stroke.** *Archives of physical medicine and rehabilitation*
  Seim, C., Chen, B., Han, C., Vacek, D., Lowber, A., Lansberg, M., Okamura, A. M.
  2023

- **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

- **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., Dehkharghani, S., Goldman-Yassen, A. E., Hsieh, K., Giurgiutiu, et al
  2023; 3 (3)

- **Varicella Zoster Vasculopathy Exacerbated by Tofacitinib in a Patient With Ulcerative Colitis.** *Stroke*
  Lyman, K. A., Sreekrishnan, A., Thatikunta, P., McConnell, R., Lansberg, M. G., Mijalski Sells, C. M.
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