

# Stanford

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## Gregory W. Albers, MD

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

### **CLINICAL OFFICE (PRIMARY)**

- Stanford Neuroscience Health Center

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### **Bio**

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### **CLINICAL FOCUS**

- Neurology

### **ACADEMIC APPOINTMENTS**

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

### **ADMINISTRATIVE APPOINTMENTS**

- Director, Stanford Stroke Center, Stanford Medical Center, (1992- present)
- Coyote Foundation Professor, Neurology and Neurological Sciences, (2007- present)

### **PROFESSIONAL EDUCATION**

- Board Certification: Vascular Neurology, American Board of Psychiatry and Neurology (2019)
- Medical Education: University of California San Diego School of Medicine (1984) CA
- Internship: Stanford University Internal Medicine Residency (1985) CA
- Residency: Stanford University Neurology Residency (1988) CA
- Board Certification: Neurology, American Board of Psychiatry and Neurology (1990)

### **LINKS**

- Stanford Stroke Center: <https://web.stanford.edu/group/neurology/stroke/>
- Personal Web site: <https://web.stanford.edu/group/neurology/stroke/>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our group's research focus is the acute treatment and prevention of cerebrovascular disorders. Our primary interest is the use of advanced imaging techniques to expand the treatment window for ischemic stroke. We are also conducting clinical studies of both neuroprotective and thrombolytic strategies for the treatment of acute stroke and investigating new antithrombotic strategies for stroke prevention.

### CLINICAL TRIALS

- Clot Lysis: Evaluating Accelerated Resolution of Intraventricular Hemorrhage Phase III, Recruiting
- Glyburide Advantage in Malignant Edema and Stroke - Remedy Pharmaceuticals, Recruiting
- Blood Pressure Lowering in Acute Stroke Trial, Not Recruiting
- Blood Pressure Lowering in Acute Stroke Trial (BLAST), Not Recruiting
- Computed Tomography Perfusion (CTP) to Predict Response to Recanalization in Ischemic Stroke Project (CRISP), Not Recruiting
- Diagnostic Utility of MRI in Intracerebral Hemorrhage, Not Recruiting
- Diffusion Weighted Imaging Evaluation for Understanding Stroke Evolution Study-2 (DEFUSE-2), Not Recruiting
- Endovascular Therapy Following Imaging Evaluation for Ischemic Stroke 3, Not Recruiting
- Imaging Collaterals in Acute Stroke (iCAS), Not Recruiting
- Insulin Resistance Intervention After Stroke Trial, Not Recruiting
- Tenecteplase in Stroke Patients Between 4.5 and 24 Hours, Not Recruiting
- Transient Ischemic Attack (TIA) Triage and Evaluation of Stroke Risk, Not Recruiting

## Publications

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### PUBLICATIONS

- **Prolonged venous transit on perfusion imaging is associated with higher odds of mortality in successfully reperfused patients with large vessel occlusion stroke.** *Journal of neurointerventional surgery*  
Yedavalli, V. S., Koneru, M., Hoseinyazdi, M., Greene, C., Lakhani, D. A., Xu, R., Luna, L. P., Caplan, J. M., Dmytriw, A. A., Guenego, A., Heit, J. J., Albers, G. W., Wintermark, et al  
2024
- **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
- **Stroke and High-risk TIAs Outcomes with Reduction of Treatment duration when treatment initiated in Emergency Rooms. (SHORTER-Study).** *International journal of stroke : official journal of the International Stroke Society*  
Alhazzani, A., AlAjlan, F., Alkhathaami, A., Al-Senani, F. M., Muayqil, T., Alghamdi, S., AlKawi, A., AlZahrani, S., Bakheet, M., Aljohani, M., Taher, N., Almutairi, A., AlQarni, et al  
2024: 17474930241237120
- **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
  - **Perfusion Profiles May Differ Between Asymptomatic Versus Symptomatic Internal Carotid Artery Occlusion.** *Journal of stroke*  
Chang, T. Y., Christensen, S., Mlynash, M., Heit, J. J., Marks, M. P., Lee, S., McCullough-Hicks, M. E., Ostojic, L. V., Kemp, S., Albers, G. W., Srivatsan, A., Lee, T. H., Lansberg, et al  
2024; 26 (1): 108-111
  - **Robust Collaterals Are Independently Associated With Excellent Recanalization in Patients With Large Vessel Occlusion Causing Acute Ischemic Stroke** *STROKE-VASCULAR AND INTERVENTIONAL NEUROLOGY*  
Yedavalli, V., Koneru, M., Hoseinyazdi, M., Greene, C., Copeland, K., Xu, R., Luna, L., Caplan, J., Dmytriw, A., Guenego, A., Heit, J., Albers, G., Wintermark, et al  
2024; 4 (1)
  - **Pretreatment CTP Collateral Parameters Predict Good Outcomes in Successfully Recanalized Middle Cerebral Artery Distal Medium Vessel Occlusions.** *Clinical neuroradiology*  
Yedavalli, V., Koneru, M., Hamam, O., Hoseinyazdi, M., Marsh, E. B., Llinas, R., Urrutia, V., Leigh, R., Gonzalez, F., Xu, R., Caplan, J., Huang, J., Lu, et al  
2023
  - **Redefining CT perfusion-based ischemic core estimates for the ghost core in early time window stroke.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*  
Koneru, M., Hoseinyazdi, M., Lakhani, D. A., Greene, C., Copeland, K., Wang, R., Xu, R., Luna, L., Caplan, J. M., Dmytriw, A. A., Guenego, A., Heit, J. J., Albers, et al  
2023
  - **Nationwide diurnal pattern among intracerebral hemorrhage incidence and volume.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*  
Sreekrishnan, A., Lun, R., Albers, G. W.  
2023; 33 (2): 107521
  - **Pretreatment parameters associated with hemorrhagic transformation among successfully recanalized medium vessel occlusions.** *Journal of neurology*  
Koneru, M., Hoseinyazdi, M., Wang, R., Ozkara, B. B., Hyson, N. Z., Marsh, E. B., Llinas, R. H., Urrutia, V. C., Leigh, R., Gonzalez, L. F., Xu, R., Caplan, J. M., Huang, et al  
2023

- **Early neurological deterioration in patients with acute ischemic stroke is linked to unfavorable cerebral venous outflow.** *European stroke journal*  
Heitkamp, C., Winkelmeier, L., Heit, J. J., Albers, G. W., Lansberg, M. G., Kniep, H., Broocks, G., Stracke, C. P., Schell, M., Guenego, A., Paech, D., Wintermark, M., Fiehler, et al  
2023: 23969873231208277
- **Pretreatment CT perfusion collateral parameters correlate with penumbra salvage in middle cerebral artery occlusion.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*  
Lakhani, D. A., Balar, A. B., Koneru, M., Hoseinyazdi, M., Hyson, N., Cho, A., Greene, C., Xu, R., Luna, L., Caplan, J., Dmytriw, A., Guenego, A., Wintermark, et al  
2023
- **Does imaging of the ischemic penumbra have value in acute ischemic stroke with large vessel occlusion?** *Current opinion in neurology*  
Seners, P., Baron, J., Olivot, J., Albers, G. W.  
2023
- **Excellent Recanalization and Small Core Volumes Are Associated With Favorable AM-PAC Score in Patients With Acute Ischemic Stroke Secondary to Large Vessel Occlusion.** *Archives of rehabilitation research and clinical translation*  
Yedavalli, V., Koneru, M., Hoseinyazdi, M., Copeland, K., Xu, R., Luna, L., Caplan, J., Dmytriw, A., Guenego, A., Heit, J., Albers, G., Wintermark, M., Gonzalez, et al  
2023; 5 (4): 100306
- **The Compensation Index Is Better Associated with DSA ASITN Collateral Score Compared to the Cerebral Blood Volume Index and Hypoperfusion Intensity Ratio.** *Journal of clinical medicine*  
Lakhani, D. A., Balar, A. B., Koneru, M., Wen, S., Hoseinyazdi, M., Greene, C., Xu, R., Luna, L., Caplan, J., Dmytriw, A. A., Guenego, A., Wintermark, M., Gonzalez, et al  
2023; 12 (23)
- **Performance of RAPID noncontrast CT stroke platform in large vessel occlusion and intracranial hemorrhage detection.** *Frontiers in neurology*  
Yedavalli, V., Heit, J. J., Dehkharghani, S., Haerian, H., Mcmenamy, J., Honce, J., Timpone, V. M., Harnain, C., Kesselman, A., Filly, A., Beardsley, A., Sakamoto, B., Song, et al  
2023; 14: 1324088
- **Priorities for Advancements in Neuroimaging in the Diagnostic Workup of Acute Stroke.** *Stroke*  
Samaniego, E. A., Boltze, J., Lyden, P. D., Hill, M. D., Campbell, B. C., Silva, G. S., Sheth, K. N., Fisher, M., Hillis, A. E., Nguyen, T. N., Carone, D., Favilla, C. G., Deljich, 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

- **Underlying Causes of TIA and Minor Ischemic Stroke and Risk of Major Vascular Events.** *JAMA neurology*  
Lavallée, P. C., Charles, H., Albers, G. W., Caplan, L. R., Donnan, G. A., Ferro, J. M., Hennerici, M. G., Labreuche, J., Molina, C., Rothwell, P. M., Steg, P. G., Touboul, P. J., Uchiyama, et al  
2023
- **EFFECT OF ANESTHESIA APPROACH ON THROMBECTOMY OUTCOMES IN PATIENTS WITH LARGE ISCHEMIC CORE STROKE: A PRE-SPECIFIED SECONDARY ANALYSIS OF SELECT2 TRIAL**  
Sarraj, A., Abraham, M., Ortega-Gutierrez, S., Hussain, M., Chen, M., Churilov, L., Sitton, C., Pereira, V., Lansberg, M., Hill, M., Albers, G., Ribo, M., Hasssan, et al  
SAGE PUBLICATIONS LTD. 2023; 424
- **Blood Pressure Management After Endovascular Therapy for Acute Ischemic Stroke: The BEST-II Randomized Clinical Trial.** *JAMA*  
Mistry, E. A., Hart, K. W., Davis, L. T., Gao, Y., Prestigiacomo, C. J., Mittal, S., Mehta, T., LaFever, H., Harker, P., Wilson-Perez, H. E., Beasley, K. A., Krothapalli, N., Lippincott, et al  
2023; 330 (9): 821-831
- **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
- **Endovascular Treatment for Acute Large Vessel Occlusion Due to Underlying Intracranial Atherosclerotic Disease.** *Seminars in neurology*  
Huo, X., Sun, D., Chen, W., Han, H., Abdalkader, M., Puetz, V., Yi, T., Wang, H., Liu, R., Tong, X., Jia, B., Ma, N., Gao, et al  
2023
- **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
- **Anatomical predictors of need for decompressive craniectomy after stroke using voxel-based lesion symptom mapping.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*  
McCullough-Hicks, M., Topiwala, K., Christensen, S., Ruiz-Betancourt, D., Mlynash, M., Albers, G. W.  
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
- **Endovascular thrombectomy for ischemic stroke with large core volume: An updated, post-TESLA systematic review and meta-analysis of the randomized trials.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*  
Kobeissi, H., Adusumilli, G., Ghozy, S., Kadirvel, R., Brinjikji, W., Albers, G. W., Heit, J. J., Kallmes, D. F.  
2023; 15910199231185738
- **Pretreatment brain CT perfusion thresholds for predicting final infarct volume in distal medium vessel occlusions.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*  
Yedavalli, V., Hamam, O., Mohseni, A., Chen, K., Wang, R., Heo, H., Heit, J., Marsh, E. B., Llinas, R., Urrutia, V., Xu, R., Gonzalez, F., Albers, et al  
2023
- **Role of Brain Imaging in the Prediction of Intracerebral Hemorrhage Following Endovascular Therapy for Acute Stroke.** *Stroke*  
Seners, P., Wouters, A., Maier, B., Boisseau, W., Gory, B., Heit, J. J., Cognard, C., Mazighi, M., Gaudilliere, B., Lemmens, R., Zaharchuk, G., Albers, G. W., Leigh, et al  
2023
- **Consensus Recommendations for Standardized Data Elements, Scales, and Time Segmentations in Studies of Human Circadian/Diurnal Biology and Stroke.** *Stroke*  
Seners, P., Wouters, A., Maier, B., Boisseau, W., Gory, B., Heit, J. J., Cognard, C., Mazighi, M., Gaudilliere, B., Lemmens, R., Zaharchuk, G., Albers, G. W., Leigh, et al  
2023

Saver, J. L., Klerman, E. B., Buchan, A. M., Calleja, P., Lizasoain, I., Bahr-Hosseini, M., Lee, S., Liebeskind, D. S., Mergenthaler, P., Mun, K. T., Ning, M., Pelz, D., Ray, et al  
2023

- **The negative effect of aging on cerebral venous outflow in acute ischemic stroke.** *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*

Heitkamp, C., Winkelmeier, L., Heit, J. J., Flottmann, F., Thaler, C., Kniep, H., Broocks, G., Meyer, L., Geest, V., Albers, G. W., Lansberg, M. G., Fiehler, J., Faizy, et al  
2023: 271678X231179558

- **Unfavorable Cerebral Venous Outflow is associated with Futile Recanalization in Acute Ischemic Stroke Patients.** *European journal of neurology*

Heitkamp, C., Winkelmeier, L., Heit, J. J., Albers, G. W., Lansberg, M. G., Wintermark, M., Broocks, G., van Horn, N., Kniep, H. C., Sporns, P. B., Zelenak, K., Fiehler, J., Faizy, et al  
2023

- **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

- **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)

- **Visual review of acute stroke neuroimaging prior to transfer acceptance increases likelihood of endovascular therapy.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*

McCullough-Hicks, M., Thatikunta, P., Mlynash, M., Albers, G. W., Mijalski-Sells, C.  
2023; 32 (7): 107157

- **The Charlotte Large Artery Occlusion Endovascular Therapy Outcome Score Compares Favorably to the Critical Area Perfusion Score for Prognostication Before Basilar Thrombectomy.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*

Karamchandani, R. R., Satyanarayana, S., Yang, H., Rhoten, J. B., Strong, D., Singh, S., Clemente, J. D., Defilipp, G., Hazim, M., Patel, N. M., Bernard, J., Stetler, W. R., Parish, et al  
2023; 32 (7): 107147

- **Cerebral Perfusion Imaging and Plateau Waves.** *Stroke*

Slawski, D., Lyman, K. A., Thatikunta, P., Gold, C. A., Albers, G. W.  
2023

- **Effect of atherosclerosis on 5-year risk of major vascular events in patients with transient ischaemic attack or minor ischaemic stroke: an international prospective cohort study** *LANCET NEUROLOGY*

Lavallee, P. C., Charles, H., Albers, G. W., Caplan, L. R., Donnan, G. A., Ferro, J. M., Hennerici, M. G., Labreuche, J., Molina, C., Rothwell, P. M., Steg, P., Touboul, P., Uchiyama, et al  
2023; 22 (4): 320-329

- **Effect of atherosclerosis on 5-year risk of major vascular events in patients with transient ischaemic attack or minor ischaemic stroke: an international prospective cohort study.** *The Lancet. Neurology*

- Lavallee, P. C., Charles, H., Albers, G. W., Caplan, L. R., Donnan, G. A., Ferro, J. M., Hennerici, M. G., Labreuche, J., Molina, C., Rothwell, P. M., Steg, P. G., Touboul, P., Uchiyama, et al  
2023; 22 (4): 320-329
- **Endovascular Therapy or Medical Management Alone for Isolated Posterior Cerebral Artery Occlusion: A Multicenter Study.** *Stroke*  
Sabben, C., Charbonneau, F., Delvoye, F., Strambo, D., Heldner, M. R., Ong, E., Ter Schiphorst, A., Henon, H., Ben Hassen, W., Agasse-Lafont, T., Legris, L., Sibon, I., Wolff, et al  
2023; 54 (4): 928-937
  - **Quantification of Penumbra Volume in Association With Time From Stroke Onset in Acute Ischemic Stroke With Large Vessel Occlusion.** *JAMA neurology*  
Seners, P., Yuen, N., Mlynash, M., Snyder, S. J., Heit, J. J., Lansberg, M. G., Christensen, S., Albucher, J., Cognard, C., Sibon, I., Obadia, M., Savatovsky, J., Baron, et al  
2023
  - **Using Epidemiological Data to Inform Clinical Trial Feasibility Assessments: A Case Study.** *Stroke*  
Stanton, R. J., Robinson, D. J., Aziz, Y. N., Sucharew, H., Khatri, P., Broderick, J. P., Janis, L. S., Kemp, S., Mlynash, M., Lansberg, M. G., Albers, G. W., Saver, J. L., Flaherty, et al  
2023
  - **Neuroimaging is the new "spatial omic": multi-omic approaches to neuro-inflammation and immuno-thrombosis in acute ischemic stroke.** *Seminars in immunopathology*  
Maier, B., Tsai, A. S., Einhaus, J. F., Desilles, J., Ho-Tin-Noe, B., Gory, B., Sirota, M., Leigh, R., Lemmens, R., Albers, G., Olivot, J., Mazighi, M., Gaudilliere, et al  
2023
  - **Trial of Endovascular Thrombectomy for Large Ischemic Strokes.** *The New England journal of medicine*  
Sarraj, A., Hassan, A. E., Abraham, M. G., Ortega-Gutierrez, S., Kasner, S. E., Hussain, M. S., Chen, M., Blackburn, S., Sitton, C. W., Churilov, L., Sundararajan, S., Hu, Y. C., Herial, et al  
2023
  - **Determinants of Infarct Core Growth During Inter-hospital Transfer for Thrombectomy.** *Annals of neurology*  
Seners, P., Scheldeman, L., Christensen, S., Mlynash, M., Ter Schiphorst, A., Arquizan, C., Costalat, V., Henon, H., Bretzner, M., Heit, J. J., Olivot, J., Lansberg, M. G., Albers, et al  
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  - **Mechanical Thrombectomy in the Late Presentation of Anterior Circulation Large Vessel Occlusion Stroke: A Guideline From the Society of Vascular and Interventional Neurology Guidelines and Practice Standards Committee** *STROKE-VASCULAR AND INTERVENTIONAL NEUROLOGY*  
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