



Maarten Lansberg, MD, PhD

Associate Professor of Neurology
Neurology & Neurological Sciences

CLINICAL OFFICES

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ACADEMIC CONTACT INFORMATION

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Bio

BIO

As an Associate 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, and I am a member of its Stroke Recovery Working Group.

CLINICAL FOCUS

- Neurology
- Stroke
- Cerebrovascular Disease

ACADEMIC APPOINTMENTS

- Associate Professor - Med Center Line, Neurology & Neurological Sciences
- 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, Not 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

2019-20

- Stroke Seminar: NENS 204 (Win)

2018-19

- Stroke Seminar: NENS 204 (Win)

2017-18

- Stroke Seminar: NENS 204 (Win)

2016-17

- Stroke Seminar: NENS 204 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (NonAC)

Sarah Divel

Publications

PUBLICATIONS

- **Multimodal magnetic resonance imaging to identify stroke onset within 6 h in patients with large vessel occlusions** *EUROPEAN STROKE JOURNAL*
Wouters, A., Dupont, P., Christensen, S., Norrving, B., Laage, R., Thomalla, G., Kemp, S., Lansberg, M., Thijs, V., Albers, G. W., Lemmens, R.
2018; 3 (2): 185–92
- **Thrombectomy for Stroke with Selection by Perfusion Imaging** *REPLY NEW ENGLAND JOURNAL OF MEDICINE*
Albers, G. W., Marks, M. P., Lansberg, M. G.
2018; 378 (19): 1849–50
- **Thrombectomy for Stroke with Selection by Perfusion Imaging** *NEW ENGLAND JOURNAL OF MEDICINE*
Vinnny, P., Vishnu, V. Y., Srivastava, M.
2018; 378 (19): 1849
- **Time From Imaging to Endovascular Reperfusion Predicts Outcome in Acute Stroke** *STROKE*
Tsai, J. P., Mlynash, M., Christensen, S., Kemp, S., Kim, S., Mishra, N. K., Federau, C., Nogueira, R. G., Jovin, T. G., Devlin, T. G., Akhtar, N., Yavagal, D. R., Bammer, et al
2018; 49 (4): 952–+
- **Effects of alteplase for acute stroke according to criteria defining the European Union and United States marketing authorizations: Individual-patient-data meta-analysis of randomized trials** *INTERNATIONAL JOURNAL OF STROKE*
Hacke, W., Lyden, P., Emberson, J., Baigent, C., Blackwell, L., Albers, G., Bluhmki, E., Brott, T., Cohen, G., Davis, S. M., Donnan, G. A., Grotta, J. C., Howard, et al
2018; 13 (2): 175–89
- **Visual Aids for Patient, Family, and Physician Decision Making About Endovascular Thrombectomy for Acute Ischemic Stroke** *STROKE*
Tokunboh, I., Vales Montero, M., Almeida, M., Sharma, L., Starkman, S., Szeder, V., Jahan, R., Liebeskind, D., Gonzalez, N., Demchuk, A., Froehler, M. T., Goyal, M., Lansberg, et al
2018; 49 (1): 90–+
- **Can diffusion- and perfusion-weighted imaging alone accurately triage anterior circulation acute ischemic stroke patients to endovascular therapy?** *Journal of neurointerventional surgery*
Wolman, D. N., Iv, M., Wintermark, M., Zaharchuk, G., Marks, M. P., Do, H. M., Dodd, R. L., Albers, G. W., Lansberg, M. G., Heit, J. J.
2018
- **Reduced Intravoxel Incoherent Motion Microvascular Perfusion Predicts Delayed Cerebral Ischemia and Vasospasm After Aneurysm Rupture.** *Stroke*
Heit, J. J., Wintermark, M., Martin, B. W., Zhu, G., Marks, M. P., Zaharchuk, G., Dodd, R. L., Do, H. M., Steinberg, G. K., Lansberg, M. G., Albers, G. W., Federau, C.
2018
- **Thrombectomy for Stroke at 6 to 16 Hours with Selection by Perfusion Imaging.** *The New England journal of medicine*
Albers, G. W., Marks, M. P., Kemp, S., Christensen, S., Tsai, J. P., Ortega-Gutierrez, S., McTaggart, R. A., Torbey, M. T., Kim-Tenser, M., Leslie-Mazwi, T., Sarraj, A., Kasner, S. E., Ansari, et al
2018; 378 (8): 708–18
- **Early Cerebral Vein After Endovascular Ischemic Stroke Treatment Predicts Symptomatic Reperfusion Hemorrhage.** *Stroke*
Cartmell, S. C., Ball, R. L., Kaimal, R., Telischak, N. A., Marks, M. P., Do, H. M., Dodd, R. L., Albers, G. W., Lansberg, M. G., Heit, J. J.
2018
- **A Comparison of Relative Time to Peak and Tmax for Mismatch-Based Patient Selection** *FRONTIERS IN NEUROLOGY*
Wouters, A., Christensen, S., Straka, M., Mlynash, M., Liggins, J., Bammer, R., Thijs, V., Lemmens, R., Albers, G. W., Lansberg, M. G.
2017; 8: 539
- **CT Perfusion to Predict Response to Recanalization in Ischemic Stroke.** *Annals of neurology*
Lansberg, M. G., Christensen, S., Kemp, S., Mlynash, M., Mishra, N., Federau, C., Tsai, J. P., Kim, S., Nogueira, R. G., Jovin, T., Devlin, T. G., Akhtar, N., Yavagal, et al
2017

- **Stroke Recovery and Rehabilitation Research: Issues, Opportunities, and the National Institutes of Health StrokeNet.** *Stroke*
Cramer, S. C., Wolf, S. L., Adams, H. P., Chen, D., Dromerick, A. W., Dunning, K., Ellerbe, C., Grande, A., Janis, S., Lansberg, M. G., Lazar, R. M., Palesch, Y. Y., Richards, et al
2017; 48 (3): 813-819
- **Method for decreasing CT simulation time of complex phantoms and systems through separation of material specific projection data** *SPIE Medical Imaging 2017: Physics of Medical Imaging*
Divel, S. E., Christensen, S., Wintermark, M., Lansberg, M. G., Pelc, N. J.
2017: 1013259
- **Power of an Adaptive Trial Design for Endovascular Stroke Studies Simulations Using IMS (Interventional Management of Stroke) III Data** *STROKE*
Lansberg, M. G., Bhat, N. S., Yeatts, S. D., Palesch, Y. Y., Broderick, J. P., Albers, G. W., Lai, T. L., Lavori, P. W.
2016; 47 (12): 2931-2937
- **Optimal Computed Tomographic Perfusion Scan Duration for Assessment of Acute Stroke Lesion Volumes** *STROKE*
Kasasbeh, A. S., Christensen, S., Straka, M., Mishra, N., Mlynash, M., Bammer, R., Albers, G. W., Lansberg, M. G.
2016; 47 (12): 2966-2971
- **Comparison of stroke volume evolution on diffusion-weighted imaging and fluid-attenuated inversion recovery following endovascular thrombectomy.** *International journal of stroke*
Federau, C., Christensen, S., Mlynash, M., Tsai, J., Kim, S., Zaharchuk, G., Inoue, M., Straka, M., Mishra, N. K., Kemp, S., Lansberg, M. G., Albers, G. W.
2016
- **A benchmarking tool to evaluate computer tomography perfusion infarct core predictions against a DWI standard** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
Cereda, C. W., Christensen, S., Campbell, B. C., Mishra, N. K., Mlynash, M., Levi, C., Straka, M., Wintermark, M., Bammer, R., Albers, G. W., Parsons, M. W., Lansberg, M. G.
2016; 36 (10): 1780-1789
- **Development of a Mobile Tool That Semiautomatically Screens Patients for Stroke Clinical Trials.** *Stroke; a journal of cerebral circulation*
Spokoyny, I., Lansberg, M., Thiessen, R., Kemp, S. M., Aksoy, D., Lee, Y., Mlynash, M., Hirsch, K. G.
2016; 47 (10): 2652-2655
- **Analysis of perfusion MRI in stroke: To deconvolve, or not to deconvolve.** *Magnetic resonance in medicine*
Meijs, M., Christensen, S., Lansberg, M. G., Albers, G. W., Calamante, F.
2016; 76 (4): 1282-1290
- **Detection of Atrial Fibrillation Among Patients With Stroke Due to Large or Small Vessel Disease: A Meta-Analysis.** *Journal of the American Heart Association*
Demeestere, J., Fieuws, S., Lansberg, M. G., Lemmens, R.
2016; 5 (9)
- **Effects of Alteplase for Acute Stroke on the Distribution of Functional Outcomes: A Pooled Analysis of 9 Trials.** *Stroke; a journal of cerebral circulation*
Lees, K. R., Emberson, J., Blackwell, L., Bluhmki, E., Davis, S. M., Donnan, G. A., Grotta, J. C., Kaste, M., von Kummer, R., Lansberg, M. G., Lindley, R. I., Lyden, P., Murray, et al
2016; 47 (9): 2373-2379
- **Risk of intracerebral haemorrhage with alteplase after acute ischaemic stroke: a secondary analysis of an individual patient data meta-analysis.** *The Lancet. Neurology*
Whiteley, W. N., Emberson, J., Lees, K. R., Blackwell, L., Albers, G., Bluhmki, E., Brott, T., Cohen, G., Davis, S., Donnan, G., Grotta, J., Howard, G., Kaste, et al
2016; 15 (9): 925-933
- **Pretreatment blood-brain barrier disruption and post-endovascular intracranial hemorrhage.** *Neurology*
Leigh, R., Christensen, S., Campbell, B. C., Marks, M. P., Albers, G. W., Lansberg, M. G.
2016; 87 (3): 263-269
- **Evolution of Volume and Signal Intensity on Fluid-attenuated Inversion Recovery MR Images after Endovascular Stroke Therapy** *RADIOLOGY*
Federau, C., Mlynash, M., Christensen, S., Zaharchuk, G., Cha, B., Lansberg, M. G., Wintermark, M., Albers, G. W.
2016; 280 (1): 184-192

- **Acute Stroke Imaging Research Roadmap III Imaging Selection and Outcomes in Acute Stroke Reperfusion Clinical Trials Consensus Recommendations and Further Research Priorities** *STROKE*
Warach, S. J., Luby, M., Albers, G. W., Bammer, R., Bivard, A., Campbell, B. C., Derdeyn, C., Heit, J. J., Khatri, P., Lansberg, M. G., Liebeskind, D. S., Majoie, C. B., Marks, et al
2016; 47 (5): 1389-1398
- **Effect of endovascular reperfusion in relation to site of arterial occlusion.** *Neurology*
Lemmens, R., Hamilton, S. A., Liebeskind, D. S., Tomsick, T. A., Demchuk, A. M., Nogueira, R. G., Marks, M. P., Jahan, R., Gralla, J., Yoo, A. J., Yeatts, S. D., Palesch, Y. Y., Saver, et al
2016; 86 (8): 762-770
- **Identification of imaging selection patterns in acute ischemic stroke patients and the influence on treatment and clinical trial enrollment decision making.** *International journal of stroke*
Luby, M., Warach, S. J., Albers, G. W., Baron, J., Cognard, C., Dávalos, A., Donnan, G. A., Fiebach, J. B., Fiehler, J., Hacke, W., Lansberg, M. G., Liebeskind, D. S., Mattle, et al
2016; 11 (2): 180-190
- **Inter-rater agreement analysis of the Precise Diagnostic Score for suspected transient ischemic attack.** *International journal of stroke*
Cereda, C. W., George, P. M., Inoue, M., Vora, N., Olivot, J., Schwartz, N., Lansberg, M. G., Kemp, S., Mlynash, M., Albers, G. W.
2016; 11 (1): 85-92
- **Prediction of final infarct volume on subacute MRI by quantifying cerebral edema in ischemic stroke.** *Journal of cerebral blood flow and metabolism*
Tipirneni-Sajja, A., Christensen, S., Straka, M., Inoue, M., Lansberg, M. G., Mlynash, M., Bammer, R., Parsons, M. W., Donnan, G. A., Davis, S. M., Albers, G. W.
2016: 271678X16683960-?
- **Magnetic resonance imaging-based endovascular versus medical stroke treatment for symptom onset up to 12?h.** *International journal of stroke*
Wouters, A., Lemmens, R., Christensen, S., Wilms, G., Dupont, P., Mlynash, M., Schneider, A., Laage, R., Cereda, C. W., Lansberg, M. G., Albers, G. W., Thijs, V.
2016; 11 (1): 127-133
- **Yield of CT perfusion for the evaluation of transient ischaemic attack.** *International journal of stroke*
Kleinman, J. T., Mlynash, M., Zaharchuk, G., Ogdie, A. A., Straka, M., Lansberg, M. G., Schwartz, N. E., Singh, P., Kemp, S., Bammer, R., Albers, G. W., Olivot, J.
2015; 10: 25-29
- **Response to endovascular reperfusion is not time-dependent in patients with salvageable tissue.** *Neurology*
Lansberg, M. G., Cereda, C. W., Mlynash, M., Mishra, N. K., Inoue, M., Kemp, S., Christensen, S., Straka, M., Zaharchuk, G., Marks, M. P., Bammer, R., Albers, G. W.
2015; 85 (8): 708-714
- **A score based on age and DWI volume predicts poor outcome following endovascular treatment for acute ischemic stroke** *INTERNATIONAL JOURNAL OF STROKE*
Liggins, J. T., Yoo, A. J., Mishra, N. K., Wheeler, H. M., Straka, M., Leslie-Mazwi, T. M., Chaudhry, Z. A., Kemp, S., Mlynash, M., Bammer, R., Albers, G. W., Lansberg, M. G.
2015; 10 (5): 705-709
- **The growth rate of early DWI lesions is highly variable and associated with penumbral salvage and clinical outcomes following endovascular reperfusion** *INTERNATIONAL JOURNAL OF STROKE*
Wheeler, H. M., Mlynash, M., Inoue, M., Tipirneni, A., Liggins, J., Bammer, R., Lansberg, M. G., Kemp, S., Zaharchuk, G., Straka, M., Albers, G. W.
2015; 10 (5): 723-729
- **Worse stroke outcome in atrial fibrillation is explained by more severe hypoperfusion, infarct growth, and hemorrhagic transformation** *INTERNATIONAL JOURNAL OF STROKE*
Tu, H. T., Campbell, B. C., Christensen, S., Desmond, P. M., De Silva, D. A., Parsons, M. W., Churilov, L., Lansberg, M. G., Mlynash, M., Olivot, J., Straka, M., Bammer, R., Albers, et al
2015; 10 (4): 534-540
- **Reperfusion of Very Low Cerebral Blood Volume Lesion Predicts Parenchymal Hematoma After Endovascular Therapy** *STROKE*
Mishra, N. K., Christensen, S., Wouters, A., Campbell, B. C., Straka, M., Mlynash, M., Kemp, S., Cereda, C. W., Bammer, R., Marks, M. P., Albers, G. W., Lansberg, M. G.
2015; 46 (5): 1245-1249

- **Apparent diffusion coefficient threshold for delineation of ischemic core.** *International journal of stroke*
Purushotham, A., Campbell, B. C., Straka, M., Mlynash, M., Olivot, J., Bammer, R., Kemp, S. M., Albers, G. W., Lansberg, M. G.
2015; 10 (3): 348-353
- **Interhospital variation in reperfusion rates following endovascular treatment for acute ischemic stroke.** *Journal of neurointerventional surgery*
Liggins, J. T., Mlynash, M., Jovin, T. G., Straka, M., Kemp, S., Bammer, R., Marks, M. P., Albers, G. W., Lansberg, M. G.
2015; 7 (4): 231-233
- **Alberta Stroke Program Early Computed Tomographic Scoring Performance in a Series of Patients Undergoing Computed Tomography and MRI: Reader Agreement, Modality Agreement, and Outcome Prediction.** *Stroke; a journal of cerebral circulation*
McTaggart, R. A., Jovin, T. G., Lansberg, M. G., Mlynash, M., Jayaraman, M. V., Choudhri, O. A., Inoue, M., Marks, M. P., Albers, G. W.
2015; 46 (2): 407-412
- **Diagnostic yield of extended cardiac patch monitoring in patients with stroke or TIA** *FRONTIERS IN NEUROLOGY*
Tung, C. E., Su, D., Turakhia, M. P., Lansberg, M. G.
2015; 5
- **Imaging selection in ischemic stroke: feasibility of automated CT-perfusion analysis** *INTERNATIONAL JOURNAL OF STROKE*
Campbell, B. C., Yassi, N., Ma, H., Sharma, G., Salinas, S., Churilov, L., Meretoja, A., Parsons, M. W., Desmond, P. M., Lansberg, M. G., Donnan, G. A., Davis, S. M.
2015; 10 (1): 51-54
- **Correlation of AOL recanalization, TIMI reperfusion and TICI reperfusion with infarct growth and clinical outcome** *JOURNAL OF NEUROINTERVENTIONAL SURGERY*
Marks, M. P., Lansberg, M. G., Mlynash, M., Kemp, S., McTaggart, R., Zaharchuk, G., Bammer, R., Albers, G. W.
2014; 6 (10): 724-728
- **Effect of treatment delay, age, and stroke severity on the effects of intravenous thrombolysis with alteplase for acute ischaemic stroke: a meta-analysis of individual patient data from randomised trials** *LANCET*
Emberson, J., Lees, K. R., Lyden, P., Blackwell, L., Albers, G., Bluhmki, E., Brott, T., Cohen, G., Davis, S., Donnan, G., Grotta, J., Howard, G., Kaste, et al
2014; 384 (9958): 1929-1935
- **Effect of treatment delay, age, and stroke severity on the effects of intravenous thrombolysis with alteplase for acute ischaemic stroke: a meta-analysis of individual patient data from randomised trials.** *Lancet*
Emberson, J., Lees, K. R., Lyden, P., Blackwell, L., Albers, G., Bluhmki, E., Brott, T., Cohen, G., Davis, S., Donnan, G., Grotta, J., Howard, G., Kaste, et al
2014; 384 (9958): 1929-1935
- **Angiographic outcome of endovascular stroke therapy correlated with MR findings, infarct growth, and clinical outcome in the DEFUSE 2 trial** *INTERNATIONAL JOURNAL OF STROKE*
Marks, M. P., Lansberg, M. G., Mlynash, M., Kemp, S., McTaggart, R. A., Zaharchuk, G., Bammer, R., Albers, G. W.
2014; 9 (7): 860-865
- **Pittsburgh outcomes after stroke thrombectomy score predicts outcomes after endovascular therapy for anterior circulation large vessel occlusions.** *Stroke; a journal of cerebral circulation*
Rangaraju, S., Liggins, J. T., Aghaebrahim, A., Streib, C., Sun, C., Gupta, R., Nogueira, R., Frankel, M., Mlynash, M., Lansberg, M., Albers, G., Jadhav, A., Jovin, et al
2014; 45 (8): 2298-2304
- **Comparison of magnetic resonance imaging mismatch criteria to select patients for endovascular stroke therapy.** *Stroke; a journal of cerebral circulation*
Mishra, N. K., Albers, G. W., Christensen, S., Marks, M., Hamilton, S., Straka, M., Liggins, J. T., Kemp, S., Mlynash, M., Bammer, R., Lansberg, M. G.
2014; 45 (5): 1369-1374
- **Effect of collateral blood flow on patients undergoing endovascular therapy for acute ischemic stroke.** *Stroke; a journal of cerebral circulation*
Marks, M. P., Lansberg, M. G., Mlynash, M., Olivot, J., Straka, M., Kemp, S., McTaggart, R., Inoue, M., Zaharchuk, G., Bammer, R., Albers, G. W.
2014; 45 (4): 1035-1039
- **Early diffusion-weighted imaging reversal after endovascular reperfusion is typically transient in patients imaged 3 to 6 hours after onset.** *Stroke; a journal of cerebral circulation*
Inoue, M., Mlynash, M., Christensen, S., Wheeler, H. M., Straka, M., Tipirneni, A., Kemp, S. M., Zaharchuk, G., Olivot, J., Bammer, R., Lansberg, M. G., Albers, G. W.
2014; 45 (4): 1024-1028

- **Hypoperfusion Intensity Ratio Predicts Infarct Progression and Functional Outcome in the DEFUSE 2 Cohort.** *Stroke; a journal of cerebral circulation*
Olivot, J. M., Mlynash, M., Inoue, M., Marks, M. P., Wheeler, H. M., Kemp, S., Straka, M., Zaharchuk, G., Bammer, R., Lansberg, M. G., Albers, G. W.
2014; 45 (4): 1018-1023
- **Patients with single distal MCA perfusion lesions have a high rate of good outcome with or without reperfusion** *INTERNATIONAL JOURNAL OF STROKE*
Lemmens, R., Christensen, S., Straka, M., De Silva, D. A., Mlynash, M., Campbell, B. C., Bammer, R., Olivot, J., Desmond, P., Marks, M. P., Davis, S. M.,
Donnan, G. A., Albers, et al
2014; 9 (2): 156-159
- **Bilateral internal carotid artery occlusion associated with the antiphospholipid antibody syndrome.** *Case reports in neurology*
Anand, P., Mann, S. K., Fischbein, N. J., Lansberg, M. G.
2014; 6 (1): 50-54
- **Diagnostic Yield of Extended Cardiac Patch Monitoring in Patients with Stroke or TIA.** *Frontiers in neurology*
Tung, C. E., Su, D., Turakhia, M. P., Lansberg, M. G.
2014; 5: 266-?
- **Ferumoxytol enhanced resting state fMRI and relative cerebral blood volume mapping in normal human brain.** *NeuroImage*
D'Arceuil, H., Coimbra, A., Triano, P., Dougherty, M., Mello, J., Moseley, M., Glover, G., Lansberg, M., Blankenberg, F.
2013; 83: 200-209
- **Acute Stroke Imaging Research Roadmap II** *STROKE*
Wintermark, M., Albers, G. W., Broderick, J. P., Demchuk, A. M., Fiebach, J. B., Fiehler, J., Grotta, J. C., Houser, G., Jovin, T. G., Lees, K. R., Lev, M. H.,
Liebeskind, D. S., Luby, et al
2013; 44 (9): 2628-2639
- **Comparison of the response to endovascular reperfusion in relation to site of arterial occlusion.** *Neurology*
Lemmens, R., Mlynash, M., Straka, M., Kemp, S., Bammer, R., Marks, M. P., Albers, G. W., Lansberg, M. G.
2013; 81 (7): 614-618
- **Clinical outcomes strongly associated with the degree of reperfusion achieved in target mismatch patients: pooled data from the diffusion and perfusion imaging evaluation for understanding stroke evolution studies.** *Stroke; a journal of cerebral circulation*
Inoue, M., Mlynash, M., Straka, M., Kemp, S., Jovin, T. G., Tipirneni, A., Hamilton, S. A., Marks, M. P., Bammer, R., Lansberg, M. G., Albers, G. W.
2013; 44 (7): 1885-1890
- **Details of a prospective protocol for a collaborative meta-analysis of individual participant data from all randomized trials of intravenous rt-PA vs. control: statistical analysis plan for the Stroke Thrombolysis Trialists' Collaborative meta-analysis** *INTERNATIONAL JOURNAL OF STROKE*
Emberson, J., Lees, K. R., Howard, G., Bluhmki, E., Tilley, B., Albers, G., Baigent, C., Blackwell, L., Davis, S., Donnan, G., Grotta, J., Hacke, W., Kaste, et al
2013; 8 (4): 278-283
- **Interaction between time to treatment and reperfusion therapy in patients with acute ischemic stroke.** *Journal of neurointerventional surgery*
Lansberg, M. G., Dabus, G.
2013; 5: i48-51
- **Advanced imaging improves prediction of hemorrhage after stroke thrombolysis** *ANNALS OF NEUROLOGY*
Campbell, B. C., Christensen, S., Parsons, M. W., Churilov, L., Desmond, P. M., Barber, P. A., Butcher, K. S., Levi, C. R., De Silva, D. A., Lansberg, M. G.,
Mlynash, M., Olivot, J., Straka, et al
2013; 73 (4): 510-519
- **Advanced imaging improves prediction of hemorrhage after stroke thrombolysis.** *Annals of neurology*
Campbell, B. C., Christensen, S., Parsons, M. W., Churilov, L., Desmond, P. M., Barber, P. A., Butcher, K. S., Levi, C. R., De Silva, D. A., Lansberg, M. G.,
Mlynash, M., Olivot, J., Straka, et al
2013; 73 (4): 510-519
- **Early Diffusion-Weighted Imaging and Perfusion-Weighted Imaging Lesion Volumes Forecast Final Infarct Size in DEFUSE 2** *STROKE*
Wheeler, H. M., Mlynash, M., Inoue, M., Tipirneni, A., Liggins, J., Zaharchuk, G., Straka, M., Kemp, S., Bammer, R., Lansberg, M. G., Albers, G. W.
2013; 44 (3): 681-685
- **Selection of patients for intra-arterial therapy--authors' reply.** *Lancet neurology*
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