

**Virtual International Stroke Trials Archive**

**Annual Meeting**

**European Stroke Conference 2013**

HMS President Room

Ibis Styles London Excel Hotel

9am to 10.30am,

[www.vistacollaboration.org](http://www.vistacollaboration.org)



The Virtual International Stroke Trials Archive



# ANNUAL REPORT

## MAY 2013



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**VISTA Chair**



**M. Brady**  
**VISTA-Rehab**



**D. Hanley**  
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**S. Warach**  
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**H.C. Diener**  
**VISTA-Prevention**

# AGENDA

## Agenda

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## VISTA-Acute

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### DATA AVAILABILITY

	Number
Available Data (Patients)	28,527
Completed Projects	41
Active Projects	23
Expressions of Interest in Collaboration	30
Abandoned Projects	14
Published Papers	48
Abstracts	53

### ONGOING RESEARCH TITLES

Investigator	Title
<b>A. Abdul-Rahim</b>	Early Recurrent Stroke in Ischaemic Stroke Patients with Atrial Fibrillation
<b>A. Abdul-Rahim</b>	Impact of Heart Failure on Outcome in Thrombolysed Patients with Stroke
<b>A. Davalos</b>	Analysis of VISTA placebo data to seek evidence of trends over time
<b>A. Flint</b>	Does the Thrive score predict the risk of sICH after thrombolysis?
<b>M. Sykora/ J. Diedler/ B. Frank</b>	Impact of beta-blockers on outcome in stroke patients: Evidence from VISTA
<b>B. Ovbiagele/ G. Saposnik</b>	Age-Stroke Severity Index and Acute Ischemic Outcomes in the VISTA Dataset
<b>P. Michel, B. Yan, S. Davis</b>	Predictors of seizures post ischaemic stroke
<b>G. Ford</b>	Validation of DASH II decision making analytic model
<b>H. Tu</b>	Defining the value of the CHADS2 score in predicting early morbidity, mortality and cardiac complications following ischaemic stroke
<b>J. Dawson</b>	Medication burden and clinical outcomes early after acute stroke
<b>J. Dawson</b>	Antithrombotic Therapy after Stroke

<b>J. Lees</b>	Patient outcomes following stroke according to baseline level of renal function
<b>M. Ali</b>	How well do Trial Outcome Measures Reflect Patients' Quality of Life?
<b>M. Endres</b>	Impact of Resting Heart Rate on Mortality and Morbidity After Acute Ischemic Stroke
<b>M. Mazya</b>	SITS SICH score
<b>M. Saini/ A. Shuaib</b>	Study of effect of metabolic syndrome on ischaemic stroke outcomes
<b>N. Sprigg</b>	Assessment of pharmacological agents with modulator effects on blood brain barrier in acute stroke
<b>P. Michel</b>	Extension and further validation of ASTRAL score's prognostic performance
<b>R. Fulton</b>	Exploration of case-control matching using historical controls for use in exploratory clinical trials: an evaluation using VISTA and SITS-EAST
<b>S. Kar</b>	A retrospective comparison between patients receiving autologous mononuclear bone marrow cells in stroke and matched VISTA controls
<b>T. Wein</b>	Investigation of post-stroke spasticity
<b>V. Thijs</b>	Cost of stroke in Belgium
<b>W. Whiteley</b>	Validation of prognostic models for haemorrhagic and thrombotic events after stroke

## PUBLICATIONS

1. Ali M, Bath PMW, Curram J, Davis SM, Diener HC, Donnan GA, Fisher M, Gregson BA, Grotta JC, Hacke W, Hennerici MG, Hommel M, Kaste M, Marler JR, Sacco R, Teal P, Wahlgren NG, Warach S, Weir CJ and Lees KR. The Virtual International Stroke Trials Archive. Stroke 2007;38:1905-1910.
2. Dawson J, Lees JS, Chang TP, Walters MR, Ali M, Davis SM, Diener HC, Lees KR, for the GAIN and VISTA Investigators. Association between disability measures and healthcare costs after initial treatment for acute stroke. Stroke.2007;38:1893-1898
3. Prosser J; MacGregor L; Lees KR; Diener HC; Hacke W; Davis SM; on behalf of the VISTA investigators. Predictors of Early Cardiac Morbidity and Mortality after Ischemic Stroke. Stroke. 2007;38:2295-2302
4. Fink JN, Frampton CM, Lyden P, Lees KR, on behalf of the VISTA Investigators. Does hemispheric lateralization influence functional and cardiovascular outcomes after stroke? An analysis of placebo-treated patients from prospective acute stroke trials. Stroke 2008;39:3335-3340
5. Konig IR; Ziegler A; Bluhmki E; Hacke W; Bath PMW; Sacco RL; Diener HC; Weimar C; on behalf of the Virtual International Stroke Trials Archive (VISTA) Investigators.

- Predicting Long-Term Outcome After Acute Ischemic Stroke. A Simple Index Works in Patients From Controlled Clinical Trials. *Stroke*. 2008;39:1821-1826
6. Quinn TJ, Dawson J, Lees JS, Chang TP, Walters MR, Lees KR; GAIN and VISTA Investigators. Time spent at home post-stroke: "home-time" a meaningful and robust outcome measure for stroke trials. *Stroke* 2008; 39: 231-3
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  9. Ali M, Atula S, Bath PMW, Grotta J, Hacke W, Lyden P, Marler J, Sacco RL, Lees KR, for the VISTA Investigators, Stroke Outcomes in Clinical Trials Patients Deriving from Different Countries. *Stroke* 2009;40:35-40
  10. Ali M, Lyden P, Sacco RL, Shuaib A, Lees KR, for the VISTA investigators. Natural History of Complications after Intracerebral Haemorrhage. *European Journal of Neurology*; 2009: 16:624-630
  11. Ali M, Sacco R, Lees KR, On behalf of the VISTA Investigators. Primary endpoint times, functional outcome and adverse event profile after acute ischaemic stroke. *International Journal of Stroke*, 2009;4 (6):432-42
  12. Dawson J, Lees KR, Weir CJ, Quinn TJ, Ali M, Hennerici M, Walters MR, and the VISTA collaborators. Baseline Serum Urate and 90-Day Functional Outcomes Following Acute Ischemic Stroke. *Cerebrovascular Diseases*, 2009; 28:202-203.
  13. Diener HC, Weimar C, Ali M, Lees KR, Die virtuelle internationale Schlaganfallstudien-Archiv (VISTA) – Bedeutung für die Schlaganfallforschung, *Akt Neurol* 2009;36:174-179
  14. Gray LJ, Ali M, Lyden P, Bath PMW, for the VISTA Investigators. Relationship between the National Institute of Health Stroke Scale (NIHSS) and Scandinavian Stroke Scale (SSS) in patients with acute stroke. *Journal of Stroke and Cerebrovascular Diseases*, 2009; 18: 466-468
  15. Hallevi H, Albright KC, Martin-Schild SB, Barreto AD, Morales MM, Bornstein N, Ifejika NL, Shuaib A, Grotta JC, Savitz SI, on behalf of the VISTA Investigators, Recovery after ischaemic stroke: Criteria for good outcome by level of disability at day 7, *Cerebrovascular Diseases* 2009;28:341-348.
  16. Kamel H, Lees KR, Lyden P, Teal PA, Shuaib A, Ali M and Johnston SC, on behalf of the VISTA Investigators. Delayed detection of atrial fibrillation after ischaemic stroke. *Journal of Stroke and Cerebrovascular Diseases*, 2009; 18: (6):453-457
  17. Saini M, Saqqur M, Kamruzzaman A, Lees KR, and Shuaib A, for the VISTA collaboration. Effect of Hyperthermia on Prognosis Following Acute Ischemic Stroke. *Stroke* 2009;40:3051-9

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20. Whitehead J, Bolland K, Valdès-Márquez E, Lihic A, Ali M, Lees KR, for the VISTA Collaborators. Using historical lesion volume data in the design of a new phase II clinical trial in acute ischaemic stroke. *Stroke* 2009; 40:1347-1352
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22. Weimar C, Ali M, Lees KR, Donnan GA, Diener HC, for the VISTA Steering Committee. The Virtual International Stroke Trials Archive (VISTA) – Results and impact on future stroke trials and management of stroke patients. *International Journal of Stroke* 2010; 5: 103-109.
23. Mishra NK, Lyden PL, Grotta J, Lees KR, for the VISTA collaborators. Thrombolysis Is Associated With Consistent Functional Improvement Across Baseline Stroke Severity: A Comparison of Outcomes in Patients From the Virtual International Stroke Trials Archive (VISTA). *Stroke* 2010; 41:2612-2617.
24. Mishra N.K, Ahmed N, Andersen G, Herrero JE, Lindsberg P, Wahlgren N, Lees KR, for SITS and VISTA. Thrombolysis in very elderly people: controlled comparison of SITS International Stroke Thrombolysis Registry and Virtual International Stroke Trials Archive. *BMJ* 2010, 341:c6046.
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26. Mishra NK, Diener H-C, Lyden PD, Lees KR, for the VISTA collaborators, Influence of age on outcome from thrombolysis in acute stroke: a controlled comparison in patients from the Virtual International Stroke Trials Archive (VISTA). *Stroke* 2010;41;2840-2848.
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28. Favilla CG, Mullen MT, Ali M, Higgins P, Kasner SE, On behalf of the VISTA Collaboration. Sulfonylurea Use Prior to Stroke Does Not Influence Stroke Severity or Long-term Functional Outcome. *Stroke* 2011;42 710-715
29. Muir K, McCormick M, Baird T, Ali M. Prevalence, Predictors and Prognosis of Post-Stroke Hyperglycaemia in acute stroke trials: Individual Patient Data Pooled Analysis from the Virtual International Stroke Trials Archive VISTA. *Cerebrovasc Dis Extra* 2011;1:17-27.

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31. Lees JS, Mishra NK, Saini M, Lyden PD, Shuaib A, for Virtual International Stroke Trials Archive (VISTA) Collaborators. Low Body Temperature Does Not Compromise Treatment Effect of Alteplase, *Stroke* 2011; 42(9):2618-2.
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36. Hajjar K, Fulton RL, Diener HC, Lees KR; the VISTA Collaborators. Does the cognitive measure Cog-4 show improvement among patients treated with thrombolysis after acute stroke? *International Journal of Stroke*. 2012 Jul 19. doi: 10.1111/j.1747-4949.2012.00848.x
37. Frank B, Fulton R, Weimar C, Shuaib A, Lees KR, for the VISTA Collaborators Impact of Atrial Fibrillation on Outcome in Thrombolysed Stroke Patients: Evidence from the Virtual International Stroke Trials Archive (VISTA), *Stroke* 2012 43(7):1872-187.
38. Ali M, Hazelton C, Lyden P, Pollock A, Brady M, on behalf of the VISTA Collaboration, Recovery from Post-Stroke Visual Impairment: Evidence from a Clinical Trials Resource, *JNNR* 2013 Feb;27(2):133-141
39. Ali M, Bath PM, Lyden P, Brady M on Behalf of the VISTA Collaboration. Representation of People with Aphasia in Randomised Controlled Trials of Acute Stroke Interventions. *International Journal of Stroke* 2013 DOI: 10.1111/ij.s.12043.
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43. Frank, B., R. Fulton, C. Weimar, K.R. Lees, and R.D. Sanders. Use of Paracetamol in Ischaemic Stroke Patients: Evidence from Vista. *Acta Neurologica Scandinavica*, 2013 (In Press).
44. Frank B, Fulton RL, Goldie FC, Hacke W, Weimar C, Lees KR for the VISTA Collaborators. Intraclass Correlation Coefficients and Reliability of Randomised Multicentre Stroke Trials within VISTA, *International Journal of Stroke* 2013 (In Press).
45. Goldie FC, Fulton RL, Dawson J, Lees KR on behalf of the VISTA Collaboration. Exploration of time-course combinations of outcome scales for use in a global test of stroke recovery. *International Journal of Stroke* 2013 (in Press).
46. Ankolekar S, Renton C, Sprigg N, and Bath PMW, The Cog-4 Subset of the National Institutes of Health Stroke Scale as a Measure of Cognition: Relationship with Baseline Factors and Functional Outcome after Stroke Using Data from the Virtual International Stroke Trials Archive, *Stroke Research and Treatment*, 2013 (in Press) vol. 2013, Article ID 562506. doi:10.1155/2013/562506.
47. Frank B, Fulton R, Lees KR, Sanders RD for the VISTA Collaborators. Impact of benzodiazepines on functional outcome and occurrence of pneumonia in stroke: Evidence from VISTA. *International Journal of Stroke* 2013 (in Press).
48. Mishra NK, Mandava P, Chen C, Grotta J, Lees KR, Kent TA on behalf of the VISTA Collaboration. Influence of the race differences on outcomes after thrombolytic therapy in acute ischemic stroke. *International Journal of Stroke* 2013 (In press).

## FUTURE PLANS

In the past year, data have been contributed to VISTA-Acute from the NEST 2 & NEST 3 trials. These will be formally entered into the archive as soon as secondary trial analyses and publications are complete. Prof. Natan Bornstein has now joined the VISTA-Acute Steering Committee. We welcome the contribution of data from newer trials into VISTA.



## VISTA-Rehab

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### DATA AVAILABILITY

	Number
Available Data (Patients)	10,768
Number of Trials Contributed	41
Commitments to Contribute Data	14
Active Projects	4
Expressions of Interest in Collaboration	7
Abandoned Projects	0
Published Papers	5
Abstracts	19

### ONGOING RESEARCH TITLES

Name	Title
M. Ali	Carer Strain and Dependence for Activities of Daily Living
M. Ali	Standardisation of outcome measures for stroke trials of interventions for upper limb impairment
M. Brady	Prevalence and Recovery from Post-Stroke Urinary Incontinence
T. Wein	Investigation of post-stroke spasticity

### PUBLICATIONS

1. Ali M, Ashburn A, Bowen A, Brodie E, Corr S, Drummond A, Edmans J, Gladman J, Kalra L, Langhorne P, Lees KR, Lincoln N, Logan P, Mead G, Patchick E, Pollock A, Pomeroy V, Sackley C, Sunnerhagen KS, van Vliet P, Walker M, Brady M, On behalf of the VISTA-Rehab Investigators, VISTA-Rehab: A Resource for Stroke Rehabilitation Trials, International Journal of Stroke, 2010;5: 447–452.
2. Brady M, Reduce, Reuse, Recycle. International Journal of Stroke, 2010;5:421-2
3. Ali M, Bath P, Brady M, Davis S, Diener H-C, Donnan G, Fisher M, Hacke W, Hanley DF, Luby M, Tsivgoulis G, Wahlgren N, Warach S, Lees KR, on behalf of the VISTA Steering

Committees, Development, Expansion and Use of a Stroke Clinical Trials Resource for Novel Exploratory Analyses, *International Journal of Stroke* 2012;7: 133-138.

4. Ali M, Hazelton C, Lyden P, Pollock A, Brady M, on behalf of the VISTA Collaboration, Recovery from Post-Stroke Visual Impairment: Evidence from a Clinical Trials Resource, *JNNR* 2012 (In Press).
5. Ali M, English C, Bernhardt J, Sunnerhagen KS and Brady M on behalf of the VISTA-Rehab Collaboration, (invited paper). More Outcomes than Trials: A Call for Consistent Data Collection across Stroke Rehabilitation Trials. *International Journal of Stroke*, 2012 (In Press).

## PODCAST

Ali M, More Outcomes than Trials: A Call for Consistent Data Collection across Stroke Rehabilitation Trials. *International Journal of Stroke Podcast* 2013, <https://itunes.apple.com/ua/podcast/rehabilitation-edition-international/id610378155>.

## FUTURE PLANS

In the past year, data from 3 trials have been contributed to VISTA-Rehab. We welcomed Dr. Ann Charlotte Laska (Department of Clinical Sciences, Danderyd Hospital, Sweden) and Dr. Erin Godecke (School of Psychology and Social Science, Edith Cowan University, Australia) to the VISTA-Rehab Steering Committee. An editorial piece to the *International Journal of Stroke* (and associated podcast) highlighting the current lack of consistency in data collection across stroke rehabilitation trials was also contributed. Work has been initiated to standardize the outcome measures used in stroke rehabilitation trials. A project to examine the evidence for use of common outcome measures for upper limb trials has been submitted for funding. A visit to the Karolinska Institute and University of Gothenburg, Sweden yielded interest in new rehabilitation collaborations and contributions.

Glasgow Caledonian University was recently awarded funding to establish an international collaboration of aphasia trialists (CATs) from the EU's Cooperation in Science and Technology (COST) network funding. The initial meeting for this 4-year collaborative venture took place in Brussels on the 14th May 2013. There are potential benefits to both initiatives in the alignment of some of the CATs and VISTA-Rehab activities (for example

data collected from this project could feed directly into VISTA-Rehab and VISTA-Plus). We continue to welcome the contribution of data from new trials into VISTA-Rehab.

## VISTA-ICH

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### DATA AVAILABILITY

	Number
Available Data (Patients)	3,232
Commitments to Contribute Data	2
Completed Project	5
Active Projects	8
Expressions of Interest in Collaboration	5
Abandoned Projects	1
Published Papers	6
Abstracts	10

### ONGOING RESEARCH TITLES

Investigator	Title
<b>A. Lord/ S. Mayer</b>	Characterisation of neurological deterioration after spontaneous ICH
<b>C. Herweh/ T. Steiner</b>	Imaging Subanalysis of FAST
<b>K. Hajjar</b>	Cognitive outcome measures in ICH
<b>K. Hajjar</b>	ICH Prediction Modelling
<b>M. Florczak-Rzepka</b>	Biomarkers in ICH
<b>S. Yip/ P. Lyden</b>	Perihaematoma oedema: a predictor of poor functional outcome on day 90 in ICH patients
<b>T. Phan</b>	An ordinal decision tree model for predicting outcome following ICH
<b>C. Kellner</b>	Edema Volume as a Predictor of Neurological Outcome Following Intracerebral Hemorrhage

### PUBLICATIONS

1. Weimar C, Ziegler A, Sacco RL, Diener HC, Ziegler A, Koenig IR on behalf of the VISTA Investigators. Predicting recovery after intracerebral hemorrhage – an external validation in patients from controlled clinical trials. J Neurol. 2009; 256:464–469

2. Dowlatshahi D, Demchuk A, Flaherty ML, Ali M, Lyden P, and Smith EE, on behalf of the VISTA Collaboration. Defining hematoma expansion in intracerebral hemorrhage: relationship with patient outcomes. *Neurology* 2011 (in Press).
3. Ali M, Bath P, Brady M, Davis S, Diener H-C, Donnan G, Fisher M, Hacke W, Hanley DF, Luby M, Tsivgoulis G, Wahlgren N, Warach S, Lees KR, on behalf of the VISTA Steering Committees, Development, Expansion and Use of a Stroke Clinical Trials Resource for Novel Exploratory Analyses, *International Journal of Stroke* 2012;7: 133-138.
4. Ali M, Hazelton C, Lyden P, Pollock A, Brady M, on behalf of the VISTA Collaboration, Recovery from Post-Stroke Visual Impairment: Evidence from a Clinical Trials Resource, *JNNR* 2012 (In Press).
5. Ali M, Lyden P, Sacco RL, Shuaib A, Lees KR, for the VISTA investigators. Natural History of Complications after Intracerebral Haemorrhage. *European Journal of Neurology*; 2009: 16:624-630
6. Rincon F, Lyden P, and Mayer SA, on Behalf of VISTA Collaboration. Relationship Between Temperature, Hematoma Growth, and Functional Outcome After Intracerebral Hemorrhage. *Neurocritical Care* 2012 DOI 10.1007/s12028-012-9779-9.

## FUTURE PLANS

In the past year we have received data from 5 ICH trials and have recently welcomed Dr. Ken Butcher to the VISTA-ICH Steering Committee. We are now working with NovoNordisk to gain access to scans from the NovoSeven trials. These will be converted into an electronic format and will be available for analyses in adjunct with anonymised clinical datasets. In the meantime we continue to seek data from ICH trials for inclusion in VISTA-ICH.

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## VISTA-Prevention

### DATA AVAILABILITY

	Number
Available Data (Patients)	8,164
Commitments to Contribute Data	7
Active Projects	0
Expressions of Interest in Collaboration	2
Abandoned Projects	0
Published Papers	1
Abstracts	6

### PUBLICATIONS

1. Ali M, Bath P, Brady M, Davis S, Diener H-C, Donnan G, Fisher M, Hacke W, Hanley DF, Luby M, Tsivgoulis G, Wahlgren N, Warach S, Lees KR, on behalf of the VISTA Steering Committees, Development, Expansion and Use of a Stroke Clinical Trials Resource for Novel Exploratory Analyses, International Journal of Stroke 2012;7: 133-138.

### FUTURE PLANS

We await the results of additional analyses from 6 secondary prevention trials, after which these data are due to be contributed to VISTA-Prevention. We have received data from the VITATOPS trial, secured the contribution of data from the PRISM trial and welcome Prof. Graeme Hankey to the VISTA-Prevention Steering Committee. Recruitment to this resource is ongoing and we welcome the contribution of new trials to the resource.

## VISTA-Plus

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### DATA AVAILABILITY

	Number
Available Data (Patients)	9,890
Commitments to Contribute Data	1
Completed Projects	1
Active Projects	1
Expressions of Interest in Collaboration	2
Abandoned Projects	0
Published Papers	1
Abstracts	6

### ONGOING RESEARCH TITLES

Investigator	Title
<b>P. Michel</b>	Extension and further validation of ASTRAL score's prognostic performance

### PUBLICATIONS

1. Ali M, Bath P, Brady M, Davis S, Diener H-C, Donnan G, Fisher M, Hacke W, Hanley DF, Luby M, Tsivgoulis G, Wahlgren N, Warach S, Lees KR, on behalf of the VISTA Steering Committees, Development, Expansion and Use of a Stroke Clinical Trials Resource for Novel Exploratory Analyses, International Journal of Stroke 2012;7: 133-138.

### FUTURE PLANS

We have secured the contribution of data from SITS-MOST to VISTA-Plus. This will be formalized as soon as the data transfer agreements have been signed. After successful meetings with Prof. Katharina Sunnerhagen from the University of Gothenburg, we await the completion of the SALGOT project and the subsequent contribution of eligible data. Contribution of data from Telemedic Pilot Project for Integrative Stroke Care in Bavaria/Germany (TEMPiS) has also been sought.



## VISTA-Imaging

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### DATA AVAILABILITY

	<b>Number</b>
Available Data (Patients)	450
Commitments to Contribute Data	1
Active Projects	10
Expressions of Interest in Collaboration	1
Abandoned Projects	0
Published Papers	5
Abstracts	6

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### ONGOING RESEARCH TITLES

<b>Investigator</b>	<b>Title</b>
<b>I. Rekik</b>	4D modeling of the evolution of acute ischemic stroke lesions
<b>G. Thomalla</b>	Evaluation of MR-WITNESS and WAKE-UP imaging criteria on data of the PRE-FLAIR study
<b>H. Bagher-Ebadian</b>	Prediction Neural Net
<b>R. Leigh</b>	Post-processing DPMM
<b>M. Luby</b>	MRI Perfusion Evaluation
<b>T. Phan</b>	ACA digital map
<b>O. Wu</b>	GLM
<b>A. Yoo</b>	IMAGER
<b>D. Bashat</b>	Classification of lesion area of stroke patients
<b>A. Vagal</b>	PREDICT-A Natural History Study

### PUBLICATIONS

- Thomalla G, Cheng B, Ebinger M, Hao Q, Tourdias T, Wu O, Kim JS, Breuer L, Singer OC, Warach S, Christensen S, Treszl A, Forkert ND, Galinovic I, Rosenkranz M, Engelhorn T, Köhrmann M, Endres M, Kang DW, Dousset V, Sorensen AG, Liebeskind DS, Fiebach JB,

- Fiehler J, Gerloff C; STIR and VISTA Imaging Investigators. DWI-FLAIR mismatch for the identification of patients with acute ischaemic stroke within 4·5 h of symptom onset (PRE-FLAIR): a multicentre observational study. *Lancet Neurol*. 2011 Nov;10(11):978-86.
2. Cheng B, Ebinger M, Kufner A, Köhrmann M, Wu O, Kang DW, Liebeskind D, Tourdias T, Singer OC, Christensen S, Warach S, Luby M, Fiebach JB, Fiehler J, Gerloff C, Thomalla G; Stroke Imaging Repository (STIR) Investigators. Hyperintense vessels on acute stroke fluid-attenuated inversion recovery imaging: associations with clinical and other MRI findings. *Stroke*. 2012 Nov;43(11):2957-61.
  3. Cheng B, Brinkmann M, Forkert ND, Treszl A, Ebinger M, Köhrmann M, Wu O, Kang DW, Liebeskind DS, Tourdias T, Singer OC, Christensen S, Luby M, Warach S, Fiehler J, Fiebach JB, Gerloff C, Thomalla G. Quantitative measurements of relative fluid-attenuated inversion recovery (flair) signal intensities in acute stroke for the prediction of time from symptom onset. *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*. 2013;33:76-84.
  4. Scalzo F, Alger JR, Hu X, Saver JL, Dani KA, Muir KW, Demchuk AM, Coutts SB, Luby M, Warach S, Liebeskind DS. Multi-center prediction of hemorrhagic transformation in acute ischemic stroke using permeability imaging features. *Magnetic resonance imaging*. 2013
  5. Kudo K, Christensen S, Sasaki M, Ostergaard L, Shirato H, Ogasawara K, Wintermark M, Warach S. Accuracy and reliability assessment of ct and mr perfusion analysis software using a digital phantom. *Radiology*. 2013;267:201-211

## FUTURE PLANS

We have secured the contribution of data from EPITHET to VISTA-Imaging. In the summer of 2013 the STIR/VISTA Imaging database and website will be relocated to Seton/University of Texas Southwestern Clinical Research Institute of Austin, Texas. The new web address will be forwarded when it is operational. We welcome the contribution of new trials and datasets to the resource.

# ISSUES ARISING FROM STEERING COMMITTEE

## Issues Arising from Steering Committee

### VISTA-IMAGING

VISTA-Imaging currently does not charge for access to scan data. This is not consistent with other sections of VISTA. Therefore once VISTA-Imaging is transferred to Seton/UT Southwestern Clinical Research Institute of Austin, a discussion to decide on the appropriate charge fees will occur so it is consistent with other sections of VISTA.

### VISTA BIOSTATISTICIAN

Rachael Fulton has started her post as the VISTA Biostatistician.

### THE VIRTUAL INTERNATIONAL CARDIOVASCULAR AND COGNITIVE TRIALS ARCHIVE (VICCTA)

The Virtual International Cardiovascular and Cognitive Trials Archive (VICCTA) was established in October 2012 to collate data from cardiovascular and cognitive trials. Dr. Azmil Abdul-Rahim has been appointed as the VICCTA Fellow. Since October 2012 VICCTA has collated data from 10 international trials, including approximately 170,000 patients. We welcome new proposals for use of these data as well as further contribution of trial data to this resource.

### ANY OTHER BUSINESS