Klinikum rechts der Isar

Technische Universität München

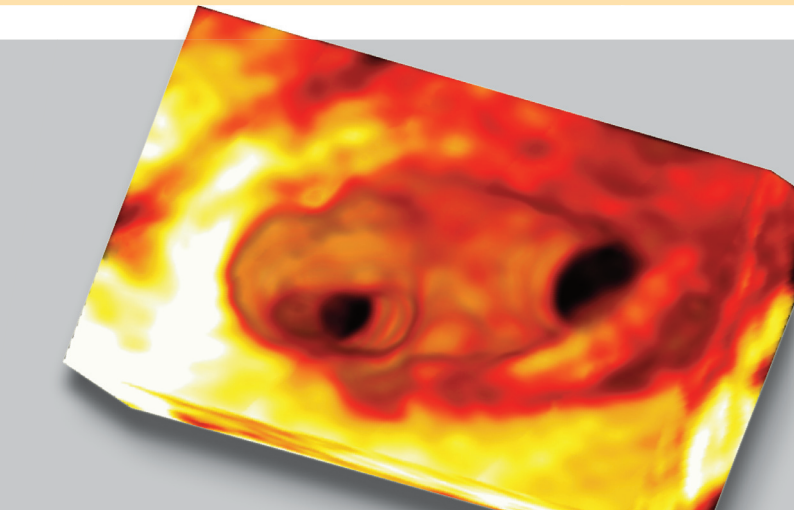
Munich Carotid Conference (MCC) – where Doctors meet Science

The vulnerable carotid plaque – pathology and new imaging tools

Friday, December 9, 2011
Klinikum rechts der Isar (MRI)
Technische Universität München (TUM)

www.mcc2011.org

PROGRAMME



Welcome

Dear colleagues,

Atherosclerotic carotid stenosis is certainly one of the best-examined vascular diseases with respect to invasive and non-invasive diagnostic modalities, randomized clinical trials and plaque research. In addition, 10-20% of all ischemic strokes are related to carotid lesions, which amounts to ~30000 carotid strokes in Germany every year. However, clinicians are still challenged by the dilemma that the risk of a carotid-related stroke in asymptomatic patients is only 2-4% per year. Obviously, current selection criteria are insufficient to really identify patients at risk of an ischemic stroke.
Fortunately, so-called biological imaging tools are on the horizon and some of them are already on the brink of clinical practice. All these modalities seek to “look into the plaque” by visualizing biological processes at different stages of atherosclerosis rather than to describe the degree of carotid stenosis. In addition, Finite Element Analysis (FEA) based on CT or MRT scans may help us to better understand the “fluid-structure interaction” at the carotid bifurcation. Since these new techniques offer the possibility of overcoming our diagnostic dilemma, a suitable platform is needed to promote the exchange of skills and knowledge between clinicians, atherosclerosis researchers, and imaging specialists.

The

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will take place this year for the first time and will be a marketplace for clinicians (neurologists, vascular surgeons, radiologists), vascular biologists and imaging or flow simulation researchers.

There will be ample time for discussions and the exchange of ideas. At the end of the meeting we seek to identify new technologies that are already applicable for clinical practice. This meeting will be held under the patronage of the German Vascular Society (DGG) and the German Society for Neurology (DGN). The Munich Carotid Conference (MCC) offers you the rare opportunity to take a look into the carotid plaque and to learn how this potentially dangerous atherosclerotic lesion might be assessed in the next decade. Don't miss this unique opportunity!

We look forward to welcoming you to Munich.

Yours,

Prof. Dr. Hans-Henning Eckstein
Head of the Department for Vascular Surgery
Klinikum rechts der Isar (MRI)
Technische Universität München (TUM)

Prof. Dr. Markus Schwaiger
Head of the Department for Nuclear Medicine
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PD Dr. Holger Poppert
Stroke neurologist at the Neurological Clinic
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Scientific Programme

09.00	**Welcome** H.-H. Eckstein, Munich, Germany H. Poppert, Munich, Germany M. Schwaiger, Munich, Germany
09.05 - 10.25	**SESSION I:** **Clinical relevance of carotid plaques** Chairs: B. Hemmer, Munich, Germany C. Liapis, Athens, Greece
	Epidemiology of carotid-related strokes - has it changed during the last decade? P. Ringleb, Heidelberg, Germany
	The ACST – or how effective is carotid surgery in stroke prevention A. Halliday, Oxford, UK
	Subclinical coronary and carotid atherosclerosis – insights from the BioImage study H. Sillesen, Copenhagen, Denmark
	Intima-media-thickness: does it really help to stratify patients at risk for cerebral or coronary infarction? M. Lorenz, Frankfurt, Germany
10.25 - 10.45	**COFFEE BREAK**
10.45 - 12.20	**SESSION II:** **Pathology of vulnerable carotid plaques** Chairs: J. Pelisek, Munich, Germany J. Rudd, Cambridge, UK
	Atherogenesis and current classifications for carotid lesions G. Pasterkamp, Utrecht, The Netherlands
	The impact of chronic inflammation, proteolysis and neovascularization A. Zernecke, Würzburg, Germany
	The impact of genetics M. Dichgans, Munich, Germany
	Can biomarkers reflect plaque instability? C. Liapis, Athens, Greece

Scientific Programme

	Can physical training stabilize vulnerable plaques? M. Halle, Munich, Germany
12.30 - 13.15	**LUNCH SESSION:** **Pharmacological approaches to stabilize carotid plaques** Chairs: E. Bartels, Munich, Germany H. Poppert, Munich, Germany
	The best medical treatment of patients with an asymptomatic carotid stenosis – what does that mean today? H. Poppert, Munich, Germany
	The role of antiplatelet agents M. Spannagl, Munich, Germany (tbc)
	Multimodal effects of cilostazol in cerebrovascular disease N. Weiss, Dresden, Germany
13.30 - 14.30	**SESSION III:** **Fluid-structure interaction at the carotid bifurcation** Chairs: H.-H. Eckstein, Munich, Germany M. Gee, Munich, Germany
	How local hemodynamics at the carotid bifurcation may influence the development of carotid plaques D. Liepsch, Munich, Germany
	In-vivo wall shear stress patterns in carotid bifurcations assessed by 4D MRI A. Harloff, Freiburg, Germany
	Might finite elements be able to assess the interaction of wall shear stress and carotid plaques precisely? W. Wall, Munich, Germany
	How CAS influences local hemodynamics K. Gröschel, Mainz, Germany
14.30 - 14.50	**COFFEE BREAK**

Scientific Programme

14.50 - 16.30	**Session IV:** **New tools to detect vulnerable carotid plaques** Chairs: M. Hennerici, Mannheim, Germany M. Schwaiger, Munich, Germany
	FDG-PET/CT to assess plaque activity and composition J. Rudd, Cambridge, UK
	High-resolution MRI to detect instable plaques in asymptomatic patients H. Poppert, Munich, Germany T. Saam, Munich, Germany
	Assessment of atherosclerotic plaque burden with an elastin-specific magnetic resonance contrast agent R. M. Botnar, London, UK
	Multispectral optoacoustic tomography can detect unstable plaques C. Zeebregts, Groningen, The Netherlands
	Vasa vasorum and neovascularization: the role of contrast-enhanced ultrasound (CEUS) E. Vicenzini, Rome, Italy
	Summary of the chairs - the clinician's view M. Hennerici, Mannheim, Germany
16.30	Concluding remarks and farewell H.-H. Eckstein, Munich, Germany H. Poppert, Munich, Germany M. Schwaiger, Munich, Germany

Information

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CONGRESS SECRETARY

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Dr. Julia Pongratz

LOCATION

Klinikum rechts der Isar, Auditorium B
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REGISTRATION

Please register online: **www.mcc2011.org**
or use the attached registration form.

CONGRESS ORGANISATION

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CME POINTS REQUESTED

Faculty

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