

Thursday, September 18			
LECTURE HALL 'A' (Diagnostics)		LECTURE HALL 'B' (Interventional)	
17th ADVANCED COURSE Intracranial tumors-from structural to functional imaging		1st INTERVENTIONAL ADVANCED COURSE Acute aneurysmal subarachnoid hemorrhage	
8.30–13.00	Morning Session	8.30–12.30	Morning Session
<i>10.30–11.00</i>	<i>Coffee Break</i>		
<i>13.00–14.30</i>	<i>Lunch</i>	<i>12.30–14.00</i>	<i>Lunch</i>
14.30–18.00	Afternoon Session	14.00–18.00	Afternoon Session
<i>16.00–16.30</i>	<i>Coffee Break</i>		
Friday, September 19			
LECTURE HALL 'A' (Diagnostics)		LECTURE HALL 'B' (Interventional)	
8.00– 9.15	<i>Refresher Course I</i>	8.00–9.15	<i>Refresher Course II</i>
9.15– 10.15	Opening Ceremony Lucien Appel Prize		
10.20–10.45	<i>State of the art Lectures</i>	10.20–10.45	<i>Lecture</i> - Contribution of neuroradiology to the understanding of cerebral architectonics
	- Genetic white matter		
10.50–12.05	<i>Scientific Papers Session I</i>	10.50–12.05	<i>Scientific Papers Session III</i>
12.10–13.30	<i>Scientific Papers Session II</i>	12.10–13.30	<i>Scientific Papers Session IV</i>
<i>13.30–14.30</i>	<i>Lunch</i>		
		14.00–14.30	<i>Philips Symposium</i>
14.30–14.55	<i>Lecture</i> Dynamic MRI of the spine, usefulness and limits	14.30–14.55	<i>Lecture</i> Mechanical recanalization of cerebral arteries in acute ischemic stroke
15.00–16.10	<i>Scientific Papers Session V</i>	15.00–16.10	<i>Scientific Papers Session VII</i>
16.15–17.25	<i>Scientific Papers Session VI</i>	16.15–17.25	<i>Scientific Papers Session VIII</i>
17.30–18.30	<i>Case-based Review Session - The brain</i>		

Saturday, September 20			
LECTURE HALL 'A' (Diagnostics)		LECTURE HALL 'B' (Interventional)	
8.00– 9.15	<i>Refresher Course III</i>	8.00–9.15	<i>Refresher Course IV</i>
	<i>State of the Art Lectures</i>		<i>Interventional Round Table</i>
9.20– 9.45	- Imaging of non-neoplastic lesions of the sellar and parasellar regions	9.20–11.20	MICROINTERVENTIONAL PROCEDURES IN DISC PATHOLOGY
9.50– 11.05	<i>Scientific Papers Session IX</i>		
11.10–12.25	<i>Scientific Papers Session X</i>	11.25–12.25	<i>Scientific Papers Session XI</i>
12.30–13.30	ESNR General Assembly		
<i>12.30–14.30</i>	<i>Lunch</i>		
		14.00–14.30	<i>Bracco Symposium</i> More with less: the value of high contrast-to-noise ratio in MR neuroimaging. Efficacy and safety considerations <i>Howard A. Rowley (USA)</i>
14.30–14.55	<i>Lecture</i> Fetal imaging of the brain and spine and its impact on intrauterine treatment	14.30–14.55	<i>Lecture</i> Curative embolization of brain AVMs
15.00–16.20	<i>Scientific Papers Session XII</i>	15.00–16.10	<i>Scientific Papers Session XIII</i>
16.25–17.25	<i>Case based Review Session</i> Pediatric neuroradiology	16.15–17.25	<i>Scientific Papers Session XIV</i>
17.30–18.30	<i>Case based Review Session</i> The spine		
Sunday September 21			
LECTURE HALL 'A'		LECTURE HALL 'B'	
8.00– 8.50	<i>Refresher Course V</i>		
9.00– 9.25	<i>Lecture</i> Aneurysmal vasculopathies in children		
9.30–10.40	<i>Scientific Papers Session XV</i>		
10.45–11.55	<i>Scientific Papers Session XVI</i>	10.45–11.55	<i>Scientific Papers Session XVII</i>
12.00–12.30	Closing Lecture 'Neuroradiology Decision Support in the 21st Century' & Closing Ceremony		

Scientific Program

Thursday, September 18, 2008

17th Advanced Course **Intracranial tumors-from structural to functional imaging**
Lecture Hall 'A' (Diagnostics)

08.30-13.00 Morning Session

Chairperson : Philippe Demaerel (Belgium), Marco Essig (Germany)

- 08.30-09.00 **The biology of brain tumors**
Peter Wesseling (The Netherlands)
- 09.00-09.30 **Genetics of brain tumors**
Maria M. Sasiadek (Poland)
- 09.30-10.00 **New WHO brain tumor classification**
Majda Thurnher (Austria)
- 10.00-10.30 **Intracranial tumors – neurosurgeon's view**
Tomasz Trojanowski (Poland)

10.30–11.00 Coffee Break

The advanced modalities in intracranial tumors

- 11.00-11.30 **MR perfusion**
Iain Wilkinson (UK)
- 11.30-12.00 **MR spectroscopy**
Jerzy Walecki (Poland)
- 12.00-12.30 **Functional MRI and diffusion tensor imaging**
Stefan Sunaert (Belgium)
- 12.30-13.00 **Intraoperative MRI**
Yuko Ono (Japan)

13.00–14.30 Lunch

14.30–18.00 Afternoon Session

Chairpersons : Stefan Sunaert (Belgium), Jerzy Walecki (Poland)

- 14.30-15.0 **Low grade gliomas – can we predict future behaviour from imaging features**
Charles Romanowski (UK)
- 15.00-15.30 **Neuronal and neuronal-glia tumors**
Bozena Goraj (The Netherlands)
- 15.30-16.00 **Skull base tumors**
Jan Casselman (Belgium)

16.00–16.30 Coffee Break

- 16.30-17.00 **Pediatric tumors**
Andrea Rossi (Italy)
- 17.00-17.30 **Tumor-like lesions**
Philippe Demaerel (Belgium)
- 17.30-18.0 **Neuroimaging in monitoring the therapy and recurrence of brain tumors**
Barbara Bobek-Billewicz (Poland)

Thursday, September 18, 2008

1st Interventional Advanced Course **Acute aneurysmal subarachnoid hemorrhage** *Lecture Hall 'B'- (Interventional)*

08.30-13.00 Morning Session

Subarachnoid hemorrhage

Chairperson : Luc Picard (France), Martin Schumacher (Germany)

08.30-09.00 **How intracranial aneurysm rupture damages the brain**

Tomasz Trojanowski (Poland)

09.00-09.30 **Modern approach to SAH in intensive care unit**

Nicolas Bruder (France)

09.30-09.50 **Vasospasm and delayed consequences**

Serge Bracard (France)

09.50-10.10 **Diagnosis CT angio, MRA**

Marco Leonardi (Italy)

10.10-10.30 **Diagnosis DSA, 3D Angiography**

Jo Peluso (Belgium)

10.30–11.00 **Coffee Break**

Aneurysms

11.00-11.30 **The aneurysmal wall. The key to a subclassification of intracranial arterial aneurysm vasculopathies?**

Timo Krings (Germany)

11.30-12.00 **Environment of aneurysms and endovascular considerations**

Anton Valavanis (Switzerland)

12.00-12.30 **ISAT : Lessons and update**

Robin Sellar (UK)

12.30-14.00 **Lunch**

14.00–18.00 Afternoon Session

Endovascular treatment

Chairpersons: Malgorzata Szczerbo-Trojanowska (Poland), Istvan Szikora (Hungary)

14.00-14.20 **Endovascular treatment of complex aneurysms using remodelling devices-stents**

Thomas Grobelny (USA)

14.20-14.40 **Remodelling: indications, limits and non indications**

Laurent Spelle (France)

14.40-15.00 **Stents : indications, limits and non indications**

Isabelle Wanke (Germany)

15.00-15.20 **Complications: How to avoid, How to manage?**

Robin Sellar (UK)

15.20-15.40 **Endovascular treatment of large and giant intracranial aneurysms with use of mixture different embolic materials - the proposal of new approach**

Maciej Szajner (Poland)

15.40-16.00 **Flow modifying devices in aneurysm treatment: what is in the pipeline?**

Istvan Szikora (Hungary)

16.00-16.30 **Coffee Break**

16.30-18.00 **SAH aneurysmal care: organization in different countries and recommendations**
Nicolas Bruder, Massimo Gallucci, Marco Leonardi, Martin Schumacher, Tomasz
Trojanowski, Anton Valavanis

Friday, September 19, 2008
Morning

Lecture Hall 'A' - (Diagnostics)

08.00-09.15 Refresher Course I

Chairperson: Turgut Tali (Turkey)

08.00-08.25 **Brain infections**

Jordi Rusalleda (Spain)

08.25-08.50 **Update on MRI criteria for early diagnosis of multiple sclerosis**

Alex Rovira (Spain)

08.50-09.15 **MRI in epilepsy**

Karel Deblaere (Belgium)

09.15-10.15 Opening Ceremony

Hommage to Professor Pierre Lasjaunias

Luc Picard (France)

Lucien Appel Prize

10.20-12.05 Lecture and Scientific Session

Chairpersons: Jan Casselman (Belgium), Ernst Wilhelm Radue (Switzerland)

10.20-10.45 **State-of-the-Art Lecture**

Genetic white matter

Robert Zimmerman (USA)

10.50-12.05 Scientific Papers I - Intracranial Tumours I (A1)

MRI QUALITATIVE EVALUATION OF SURGERY IN NEURO-ONCOLOGY : WHEN AND HOW ?

S. CONDETTE-AULIAC(1), A. BOULIN(1), S. ALDEA(2), L. BOZEC-LEMOAL(3), S. GUIEU(1), M. DUPUY(1), S. GAILLARD(2), G. RODESCH(1)

(1)Foch Hospital Neuroradiology Department, Suresnes, France, (2) Foch Hospital Neurosurgery Department, Suresnes, France, (3) Foch Hospital Oncology Department, Suresnes, France

CORRELATION OF MAGNETIC RESONANCE IMAGING MORPHOLOGIC ABNORMALITIES, MAGNETIC RESONANCE SPECTROSCOPY AND RADIATION TREATMENT DOSE-VOLUMES IN HISTOLOGICALLY PROVEN CEREBRAL RADIATION NECROSIS

P. SUNDGREN(1), L. ROGERS(2), CT. TSIEN(3), P. McKEEVER(4), L. JUNCK(2), Y. CAO(3), RT. HAKEN(2), DM. GOMEZ HASSAN(1)

(1)University of Michigan Health Systems, Department of Radiology, Ann Arbor, USA, (2)University of Michigan Health Systems, Department of Neurology, Ann Arbor, USA, (3)University of Michigan Health Systems, Radiation Oncology, Ann Arbor, USA, (4)University of Michigan Health Systems, Pathology Ann Arbor, USA

MRI(ADC) AND 99MTC-MIBI SPET RATIOS CORRELATE WITH HISTOLOGICAL GRADING OF GLIOMAS

R. MARDARI(1), R. MANARA(1), D. CECCHIN(2), M. SEVERINO(1), V. CITTON(1), M. CALDERONE(1), F. ZUSTOVICH(3), C. CAROLLO(1), A. DELLA PUPPA(4)

(1)Neuroradiology Unit, University Hospital of Padua Padua Italy, (2)Nuclear Medicine Service, Department of Diagnostic Medical Sciences, University of Padua, Padua, Italy, (3)Oncology Department, University Hospital of Padua Padua Italy, (4)Department of Neurosurgery, University Hospital of Padua, Padua, Italy

IDENTIFICATION OF HYPERMETABOLIC REGIONS IN BRAIN GLIOMAS WITH T2'

MAPS

L. SAITTA(1), A.F. FÖRSTER(2), S. SIEMONSEN(2), J. FINSTERBUSCH(2), O. HEESE(2), B. HOLST(2), L. CASTELLAN(1), J. FIEHLER(2)

(1)San Martino Hospital - Department of Neuroradiology Genoa, Italy, (2)University Medical Center Eppendorf, Hamburg, Germany

PROTON MR SPECTROSCOPY AS A TOOL FOR DISCRIMINATING BETWEEN TUMOUR AND PSEUDOTUMOURAL LESION IN SOLID BRAIN MASSES

C. MAJOS(1), J. ALONSO(2), M. JULIA-SAPE(3), C. AGUILERA(1), JJ. SANCHEZ(1), S. CASTAÑER(1), A. SAMITIER(1), A. ROVIRA(2), C. ARUS(3)

(1)IDI, HU de Bellvitge L'Hospitalet de Llobregat, Barcelona Spain, (2)IDI, HU de Vall d'Hebron Barcelona, Spain, (3)Dpt Bioquímica i Biologia Molecular, UAB Cerdanyola del Vallés, Barcelona, Spain

MAPPING OF MOTOR AREAS IN BRAIN TUMOUR PATIENTS: NAVIGATED BRAIN STIMULATION (NBS) AND FMRI

M. KÖNÖNEN(1), E. MERVAALA(2), J. KARHU(3), J.E. JÄÄSKELÄINEN(4), V. LEINONEN(4), R. VANNINEN(1)

(1)Dept. of Clinical Radiology, Kuopio University Hospital, Kuopio, Finland, (2) Dept. of Clinical Neurophysiology, Kuopio University Hospital, Kuopio, Finland, (3)Dept. of Physiology, Kuopio University Hospital, Kuopio, Finland, (4)Dept. of Neurosurgery, Kuopio University Hospital, Kuopio, Finland

MULTICENTER DOUBLE-BLIND RANDOMIZED INTRAINDIVIDUAL CROSSOVER COMPARISON OF GADOBENATE DIMEGLUMINE AND GADOPENTETATE DIMEGLUMINE IN MRI OF THE CNS AT 3 TESLA

Z. RUMBOLDT(1), H. ROWLEY(2), F. STEINBERG(3), JA. MALDJIAN(4), J. RUSCALLEDA(5), L. GUSTAFSSON(6), S. BASTIANELLO(7)

(1)Medical University of South Carolina, Department of Radiology Charleston, SC USA, (2)UWHC - Department of Radiology Madison, WI USA, (3)University MRI & Diagnostic Imaging Centers Boca Raton, FL USA, (4)Dept. of Radiology, Wake Forest University School of Medicine Winston-Salem, NC USA, (5)Dept. of Neuroradiology, Hospital de la Santa Cruz y San Pablo Barcelona Spain, (6)Dept. of Neuroradiology, Sahlgrenska University Hospital Gothenburg, Sweden, (7)Fondazione Istituto Neurologico Casimiro Mondino, Pavia, Italy

QUANTITATIVE ASSESSMENT OF BRAIN TUMOR VASCULARITY: CORRELATION OF NON-CONTRAST HIGH-RESOLUTION SUSCEPTIBILITY-WEIGHTED IMAGE WITH MR PERFUSION IMAGING AT 3T

H. KIM, S. KIM

Department of Diagnostic Radiology, Ajou University School of Medicine, Suwon, South Korea

12.10-13.30 Scientific Papers II - Advanced MR Techniques I (A2)

Chairpersons: Majda Thurnher (Austria), Johan van Goethem(Belgium)

COMPARISON OF GENERAL LINEAR MODEL (GLM) VERSUS MULTI SESSION TENSOR INDEPENDENT COMPONENT ANALYSIS (TICA) APPROACH TO FMRI ANALYSIS OF EMOTIONAL PROCESSING IN MALES AND FEMALES

M. KUNIECKI(1), A. URBANIK(2), B. SOBIECKA(2), J. KOZUB(2), L. PODSIADLO(2), M. BINDER(1)

(1)Jagiellonian University, Institute of Psychology, Department of Psychophysiology Cracow Poland, (2)Jagiellonian University, Collegium Medicum, Chair of Radiology, Cracow, Poland

OPTIMIZATION OF CLINICAL FUNCTIONAL MRI PROTOCOLS AT 3 TESLA

L. KOZAK(1), P. BARS(1), L. EROSS(2), Z. VIDNYANSZKY(1,3), G. RUDAS(1)

(1)MR Research Center, Semmelweis University Budapest Hungary, (2)National Institute of Neurosurgery Budapest Hungary, (3)Neurobionics Research Group, Hungarian Academy of Sciences - Pazmany Peter Catholic University - Semmelweis University, Budapest, Hungary

PLASTIC CHANGES IN THE FUNCTIONAL BRAIN ORGANISATION INDUCED BY FORCED RIGHT-HANDEDNESS - FMRI STUDY

M. GUT(1), A. URBANIK(2), L. FORSBERG(3), M. BINDER(4), K. RYMARCZYK(1), B. SOBIECKA(2), J. KOZUB(2), A. GRABOWSKA(1)

(1)The Nencki Institute of Experimental Biology Warsaw Poland, (2)Collegium Medicum, Jagiellonian University Cracow Poland, (3)Karolinska Institute Stockholm Sweden, (4)Institute Of Psychology, Jagiellonian University, Cracow, Poland

HOW DIFFERENT BRAIN PATHOLOGIES INFLUENCE LANGUAGE PLASTICITY IN THE BRAIN: FMRI STUDY

M. CAULO(1), C. BRIGANTI(1), C. SESTIERI(1), F. DE PASQUALE(1), C. COLOSIMO(2), A. TARTARO(1)

(1)ITAB University Of Chieti, Chieti Italy, (2)Catholic University, Rome, Italy

FMRI IN LOCALIZATION OF LANGUAGE AREAS IN BILINGUALS

A. BRYLL(1), A. URBANIK(1), M. BINDR(2), I. HERMAN - SUCHARSKA(1)

(1)Collegium Medicum of Jagiellonian University, Department of Radiology Cracow Poland, (2)Jagiellonian University, Department of Neuropsychology, Cracow, Poland

FUNCTIONAL MAGNETIC RESONANCE IMAGING OF THE GENDER DIFFERENCES IN ACTIVATION OF THE BRAIN EMOTIONAL CENTRES

L. PODSIADLO, A. URBANIK, M. KUNIECKI, J. KOZUB, B. SOBIECKA

(1)Jagiellonian University Cracow , Poland

THE FIRST CASE OF NEUROSURGICAL TREATMENT OF EPILEPSY ON THE BASIS OF IMAGE FUSION OF MRI AND SPECT

E. JURKIEWICZ(1), M. BEKIESINSKA-FIGATOWSKA(2), J. MISKO(3), A. KAMINSKA(4), S. KWIATKOWSKI(5), I. TERCZYNSKA(6), J. WALECKI(7)

(1)Childrens Memorial Health Institute - MRI Unit Warsaw, Poland, (2)Institute of Mother and Child - Department of Diagnostic Imaging, Warsaw, Poland, (3)Miedzyleski Specialistic Hospital - Department of Nuclear Medicine Warsaw, Poland, (4)Childrens Memorial Health Institute - Department of Nuclear Medicine Warsaw Poland, (5)University Childrens Hospital - Department of Neurosurgery, Cracow, Poland, (6)Institute of Mother and Child - Department of Neurology Warsaw, Poland, (7)Central Clinical Hospital of Ministry of Internal Affairs - Department of Radiology, Warsaw, Poland

Lecture Hall 'B' - (Interventional)

08.00-09.15 Refresher Course II

Chairpersons: Marco Leonardi (Italy), Isabelle Wanke (Germany)

08.00-08.25 **Imaging in acute stroke patients**

Ruediger von Kummer (Germany)

08.25-08.50 **Endovascular treatment of acute stroke**

Thomas Grobelny (USA)

08.50-09.15 **Extracranial stenting**

Tomasz Jargiello (Poland)

10.20-12.05 Lecture and Scientific Session

Chairpersons: Soren Jacob Bakke (Norway), Ruediger von Kummer (Germany)

10.20-10.45 **Contribution of neuroradiology to the understanding of cerebral architectonics**

Anton Valavanis (Switzerland)

10.50-12.05 **Scientific Papers III - Cerebrovascular Disease I (B1)**

CT ANGIOGRAPHY COVERING BOTH CERVICAL AND CEREBRAL ARTERIES ON A 16-DETECTOR ROW

SYSTEM: MODIFICATION OF CONTRAST DOSE AND INJECTION RATE BY PATIENT WEIGHT

K. TSUCHIYA, M. IMAI, H. TATEISHI, K. HONYA, M. YOSHIDA, T. NITATORI

Department of Radiology, Kyorin University School of Medicine, Tokyo, Japan

CT ANGIOGRAPHY COVERING BOTH CERVICAL AND CEREBRAL ARTERIES USING A REDUCED DOSE

AND HIGHER CONCENTRATION ON A 16-DETECTOR ROW SYSTEM: EFFECT OF A HIGHER IODINE

DELIVERY RATE AND A SALINE FLUSH

K. TSUCHIYA, H. TATEISHI, K. HONYA, M. YOSHIDA, M. GOMYO, T. NITATORI

Department of Radiology Kyorin University School of Medicine, Tokyo, Japan

320-MULTIDECTOR CT IN THE EVALUATION OF ARTERIAL CEREBROVASCULAR DISORDERS

D. SAN MILLAN RUIZ, P. GAILLOUD, K. MURPHY

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DYNAMIC SUBTRACTED VENOGRAPHY WITH 320-MULTIDECTOR CT

D. SAN MILLAN RUIZ, K. MURPHY, P. GAILLOUD

Divisions of Interventional Neuroradiology, Department of Radiology, The Johns Hopkins Hospital, Baltimore, USA

EVALUATION OF 3D PSEUDO-CONTINUOUS ARTERIAL SPIN LABELING (ASL) IN THE ASSESSMENT OF CEREBROVASCULAR RESERVE CAPACITY IN SYMPTOMATIC PATIENTS WITH ARTERIAL STENOSIS

M. TISSERAND, S. FOSCOLO, E. SCHMITT, A.S. RIVIERRE, R. ANXIONNAT, S. BRACARD

Neuroradiology Department, University Hospital, Nancy, France

TRANSCRANIAL DOPPLER AIDED DETECTION OF MICROEMBOLI DURING INTERNAL CAROTID ARTERY STENTING

A. SZOLICS(1), L. SZTRIHA(2), P. SZIKRA(1), E. VÖRÖS(1,3)

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A NEW CT-BASED CLASSIFICATION OF SPONTANEOUS SUPRATENTORIAL INTRACEREBRAL HAEMATOMAS

J. BOGUCKI(1), N. WALASEK(1), P. DABROWSKI(2), M. GLOWACKI(1), Z. CZERNICKI(1)

(1)Department of Neurosurgery, Medical Research Center, Polish Academy of Sciences Warsaw Poland, (2)Department of Neurosurgery, II Faculty of Medicine, Medical University of Warsaw, Warsaw, Poland

T2 VALUES CORRELATE WITH TIME FROM SYMPTOM ONSET IN ACUTE STROKE

S. SIEMONSEN(1), K. MOURIDSEN(2), B. HOLST(1), G. THOMALLA(3), J. FIEHLER(1)

(1)University Medical Center Hamburg-Eppendorf, Department of Neuroradiology Hamburg Germany, (2)Aarhus University Hospital, Center of Functionally Integrative Neuroscience Aarhus Denmark, (3)Medical Center Hamburg-Eppendorf, Department of Neurology, Hamburg, Germany

12.10-13.30 Scientific Papers IV - Interventional Neuroradiology: Brain I (B2)

Chairpersons: Timo Krings (Germany), Robin Sellar (UK)

TREATMENT OF INTRACRANIAL SACCCULAR ANEURYSMS USING HIGH MESH DENSITY VASCULAR ENDOPROSTHESIS (PIPELINE™): THE BUDAPEST EXPERIENCE

I. SZIKORA ISTVÁN(1), M. MAROSFOI(1), P. NELSON(2), A. BEREZ(3), ZS. BERENTEI(1), ZS. KULCSAR(1), WICKLY. LEE(1), I. NYARY(1)

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A SYSTEMATIC REVIEW OF COATED COILS USED IN ENDOVASCULAR ANEURYSM TREATMENT: PRELIMINARY RESULTS

P. WHITE(1), J. RAYMOND(2,3)

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HELPS TRIAL: PRESENTATION OF UNBLINDED CLINICAL FOLLOW-UP DATA AND

AN UPDATE ON PROGRESS

P. WHITE

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ENDOVASCULAR TREATMENT OF 180 MIDDLE CEREBRAL ARTERY ANEURYSMS: CLINICAL OUTCOME AND LONG-TERM ANGIOGRAPHIC FOLLOW-UP

J. VENDRELL, D. HOA, J. MORITZ, H. BRUNEL, M. MOYNIER, A. BONAFE

CHU Gui de Chauliac, Montpellier, France

RECRUITMENT OF PATIENTS FOR THE TEAM STUDY (TRIAL ON ENDOVASCULAR ANEURYSM MANAGEMENT): AN ACHIEVABLE GOAL

M. AUDET, J. RAYMOND, D. ROY, F. GUILBERT, J.B. CHEW, A. WEILL

Centre Hospitalier Universitaire de Montréal, Département de Neuroradiologie Interventionnelle, Montreal, CANADA

CLINICAL RESULTS OF CLARITY-GDC STUDY: PLACE AND RESULTS OF THE ENDOVASCULAR TREATMENT OF RUPTURED ANEURYSMS USING GDC COILS

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CLARITY STUDY : ANATOMICAL RESULTS OF THE ENDOVASCULAR TREATMENT OF RUPTURED ANEURYSMS USING GDC COILS - IS A NEW CLASSIFICATION USEFUL ?

C. COGNARD(1), L. PIEROT(2), R. ANXIONNAT(3), F. RICOLFI(4)

(1)Chu Toulouse France, (2)Chu Reims France, (3)Chu Nancy France, (4)Chu, Dijon, France

STENT MANAGEMENT OF COIL HERNIATION IN EMBOLIZATION OF INTERNAL CAROTID ANEURYSMS

C. LUO, M. TENG, F. CHANG, W. GUO, C. CHANG

Department of Radiology, Taipei Veterans General Hospital and National Yang-Ming University School of Medicine, Taipei, Taiwan

PRELIMINARY RESULTS WITH MAGNETICALLY STEERED NANOPARTICLES FOR EXPERIMENTAL ANEURYSM EMBOLISATION

T. KRINGS(1), A. SPIEGELBERG(2), P. KIRKPATRICK(3)

(1)Department of Neuroradiology, University Hospital Aachen Aachen Germany, (2)APG Medical Ltd. Hamburg Germany, (3)Addenbrookes Hospital Cambridge UK

HYDROCEPHALUS IN UNRUPTURED BRAIN ARTERIOVENOUS MALFORMATIONS. PATHOMECHANICAL CONSIDERATIONS, THERAPEUTIC IMPLICATIONS AND CLINICAL COURSE

S. GEIBPRASERT(1,2), V. PEREIRA(2), T. KRINGS(2,3), P. LASJAUNIAS(2), S. PONGPECH(1)

(1)Department of Radiology, Ramathibodi Hospital, Mahidol University Bangkok Thailand, (2)Service de Neuroradiologie Diagnostique et Thérapeutique, Hôpital de Bicêtre, Paris, France, (3)Department of Neuroradiology, University Hospital Aachen, Aachen, Germany

COMPARATIVE ANALYSIS OF ENDOVASCULAR AND MICROSURGICAL TREATMENT OF THE INTRACRANIAL AVMS

M. GUZINSKI(1), T. SZCZEPANSKI(2), W. JARMUNDOWICZ(2), M.J. SASIADEK(1)

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Afternoon

Lecture Hall 'A' - (Diagnostics)

14.30-16.10 Lecture and Scientific Session

Chairpersons: Danielle Balériaux (Belgium), Jordi Rusalleda (Spain)

14.30-14.55 **Dynamic MRI of the spine, usefulness and limits**
Massimo Gallucci (Italy)

15.00-16.10 **Scientific Papers V - Spine and spinal cord (A3)**

OCCULT NEURAL FORAMINA STENOSIS DETERMINATED BY ASSOCIATION BETWEEN DISK DEGENERATION AND FACET JOINT OSTEOARTRITIS. DEMONSTRATION WITH DEDICATED UPRIGHT MRI SYSTEM

A. SPLENDIANI, A. CATALUCCI, M.V. DI FABIO, R. DE AMICIS, M. GALLUCCI, C. MASCIOCCHI

(1)Dpt of Radiology, University of L'Aquila L'Aquila, Italy

UPRIGHT MRI OF SPONDYLOLYSIS AND SPONDYLOLISTHESIS

P. NIGGEMANN(1), J. KUCHTA(2), P. SIMONS(2), D. GROSSKURTH(1), T. SCHULZE(3), HK. BEYER(1)

(1)Privatpraxis fuer Kernspintomographie Koeln Germany, (2)Media Park Klinik Koeln Germany, (3)Privatpraxis fuer Kernspintomographie, Hannover, Germany

MRI-ASSESSMENT OF THE ALAR LIGAMENTS IN WHIPLASH INJURIES, A CASE-CONTROL STUDY

R. MYRAN, K.A. KVISTAD, M. FOLVIK, O.P. NYGAARD, H. ANDRESEN, J.A. ZWART
St Olavs Hospital, Trondheim, Norway

MR imaging characteristics of spinal subependymoma

Y. INOUE(1), K. MOCHIZUKI(1), T. NAKAYAMA(1), T. NISHIGUCHI(1), K. HAYAKAWA(3), T. TAKAMI(2), K. OHATA(2)

(1)Department of Radiology, Osaka City University Graduate School of Medicine Osaka Japan,

(2)Department of Neurosurgery, Osaka City University Graduate School of Medicine Osaka Japan,

(3)Department of Radiology, Kyoto City Hospital, Kyoto, Japan

IMPACT OF UPRIGHT, MULTI-POSITIONAL, FUNCTIONAL MRI (FMRI) ON THERAPEUTIC DECISION MAKING IN CERVICAL SPINE PATHOLOGIES

J. ELSIG(1), D. KAECH(2)

(1)FMRI Zentrum Zurich Switzerland, (2)Kantonsspital Graubünden, Chur, Switzerland

"WHITE FACET" SIGN AND LUMBAR INSTABILITY: EVALUATION USING MRI IN RECUMBENT AND UPRIGHT POSITION

A. CATALUCCI, A. SPLENDIANI, M. MANCINELLI, M.V. DI FABIO, C. MASCIOCCHI, M. GALLUCCI

Departement of Radiology - University of L'Aquila, L'Aquila, Italy

16.15-17.25 Scientific Papers VI - Inflammatory/demyelinating/degenerative diseases of the brain (A4)

Chairpersons: Bozena Goraj (The Netherlands), Alex Rovira (Spain)

CLINICAL AND MRI FEATURES OF PSEUDOTUMORAL IDIOPATHIC INFLAMMATORY DEMYELINATING LESIONS

A. ROVIRA(1), A. LEON(1), R. MITJANA(1), A. ROCHA(2), J. FLORES(3), H. GAMA(2), P.

ORELLANA(4), N. TELLEZ(1), P. SALGADO(3), CH. TILBERY(2), S. JORDY(2), C. GARRIDO(3),

G. ARRAMBIDE(3), H. ORREGO(3), T. CORONA(3), A. ROVIRA(5), X. MONTALBAN(1)

(1)Hospital Vall d'Hebron, Barcelona, Spain, (2)Hospital Santa Casa de Misericordia, Sao Paulo, Brazil,

(3)Instituto Nacional de Neurología y Neurocirugía Ciudad de Mexico Mexico, (4)Hospital Clínico de la

Universidad de Chile Santiago de Chile Chile, (5)UDIAT-CD, Corporació Sanitària, Parc Taulí,

Sabadell, Spain

ROLE OF NEUROIMAGING IN AUTOIMMUNE DISEASES OF THE CNS

V. KATSAROS(1), M. PAPATHANASIOU(2), S. LYRA(3), K. KARAGEORGIU(4), CH.

DROSSOS(5), A.D. GOULIAMOS(2)

(1)IKA Oncology Hospital, Department of Neuroradiology, CT And MRI Athens, Greece, (2)Attikon Hospital, University of Athens, Department of Radiology, Athens, Greece, (3)Red Cross Hospital, Department of Radiology, Athens, Greece, (4)Athens General Hospital, Neurological Clinic Athens, Greece, (5)Athens General Hospital, Department of Modern Imaging Modalities, Athens, Greece

T2 IMAGING INDICATES REDUCED METABOLISM IN MS PATIENTS

B. HOLST, S. SIEMONSEN, J. FINSTERBUSCH, M. BESTER, CH. HEESSEN, R. MARTIN, J. FIEHLER

University Medical Center Hamburg-Eppendorf Hamburg Germany

THE USE OF SUBTRACTION IMAGING IN INCREASING DETECTABILITY OF ENHANCING BRAIN LESIONS IN MULTIPLE SCLEROSIS PATIENTS

M. GAVRA(1), M. PAPATHANASIOU(1), K. VOUMOURAKIS(2), E. STABOULIS(2), A. GOULIAMOS(1)

(1) 2ND Department of Radiology, Attikon Hospital, University of Athens, Medical School Athens, Greece, (2)Department of Neurology, Attikon Hospital, University of Athens, Medical School, Athens, Greece

DIFFERENTIAL DIAGNOSIS BETWEEN TUMEFACTIVE MULTIPLE SCLEROSIS AND BRAIN TUMOURS USING PERFUSION MAGNETIC RESONANCE IMAGING

M. GALVEZ, E. BRAVO, P. RODRIGUEZ, C. OKUMA, D. MALDINI, G. SORDO, L. BADILLA
Servicio de Neurorradiología. Instituto de Neurocirugía. Universidad de Chile, Santiago, Chile

PRESURGICAL AND POSTSURGICAL FINDINGS IN REFRACTORY PATIENTS WITH ANTERIOR TEMPORAL LOBE RESECTION. ARE THEY PREDICTIVE FACTORS OF SURGICAL OUTCOME?.

N. BARGALLÓ, J. RUMIA, M. CARREÑO, A. DONAIRE, S. GONZALEZ, I. MAESTRO

(1)Hospital Clínic i Provincial de Barcelona. IDIBAPS, Barcelona, Spain

RELATIONSHIP OF INCOMPLETE HIPPOCAMPAL INVERSION AND EPILEPSY

D. BAJIC(1), E. KUMLIEN(2), P. MATTSSON(2), S. LUNDBERG(3), O. EEG-OLOFSSON(3), R. RAININKO(1)

(1)Department of Radiology Uppsala University Hospital, Uppsala Sweden, (2)Department of Neurology Uppsala University Hospital Uppsala Sweden, (3)Department of Child Neurology Uppsala University Hospital, Uppsala, Sweden

17.30-18.30 Case Review Session

The brain

Ann Osborn (USA)

Lecture Hall 'B' - (Interventional)

14.00-14.30 Philips Symposium

Stefan Sunaert (Belgium)

14.30-16.10 Lecture and Scientific Session

Chairpersons: Serge Bracard (France), Thomas Grobelny (USA)

14.30-14.55 **Mechanical recanalization of cerebral arteries in acute ischemic stroke**
Ruediger von Kummer (Germany)

15.00-16.10 **Scientific Papers VII - Interventional Neuroradiology: Brain II (B4)**

REGIONAL CEREBROVASCULAR RESERVE IN PATIENTS WITH A RECENT CEREBROVASCULAR ACCIDENT

J. GERBER(1), V. PUETZ(2), H. HENTSCHEL(2), M. KAEHLER(1), F. MOSCH(1), R. VON

KUMMER(1)

(1)University Hospital Carl Gustav Carus, Neuroradiology Dresden Germany, (2)University Hospital Carl Gustav Carus, Neurology, Dresden, Germany

STROKE MONITOR AS A DEVICE IMPROVING DIAGNOSTIC VALUE OF COMPUTED TOMOGRAPHY IN HYPERACUTE STROKE

K. SKLINDA(1), J. WALECKI(2), A. PRZELASKOWSKI(3)

(1)Department of Radiology CMKP, CSK MSWiA Warsaw Poland, (2)Department of Radiology CMKP, CSK MSWiA Warsaw Poland, (3)Institute of Radioelectronics, Warsaw University of Technology, Warsaw, Poland

PERFUSION COMPUTED TOMOGRAPHY AND CLINICAL STATUS OF PATIENTS WITH ACUTE ISCHEMIC STROKE

J. PERA(1), T.J. POPIELA(2), R. CHRZAN(2), A. SZCZUDLIK(1), A. URBANIK(2), A. SLOWIK(1)

(1)Department of Neurology CM Jagiellonian University Cracow Poland, (2)Department of Radiology CM Jagiellonian University, Cracow, Poland

INTEROBSERVER AGREEMENT IN PERFUSION CT EVALUATION IN ACUTE ISCHEMIC STROKE.

T. POPIELA(1), J. PERA(2), R. CHRZAN(1), A. SZCZUDLIK(2), A. URBANIK(1), A. SLOWIK(2)

(1)Department of Radiology CM Jagiellonian University Cracow Poland, (2)Department of Neurology CM Jagiellonian University Cracow. Poland

THE IMPACT OF HIGH B VALUE DWI IN EVALUATION OF ISCHEMIC STROKE AT 3 T MRI

M. CIHANGIROGLU(1), BEYZA. CITCI(2), ZEYNEP. FIRAT(1), DUYGU. KARA(1), AZIZ M. ULUG(3), GEYSU KARLIKAYA(2), CANAN A. BINGOL(2), ILHAMI. KOVANLIKAYA(3)

(1)Yeditepe University Hospital Department of Radiology Istanbul Turkey, (2)Yeditepe University Hospital Department of Neurology Istanbul Turkey, (3)Cornell University Department of Radiology, New York, USA

BRAIN MR ABNORMALITIES IN FABRY DISEASE: DATA FROM THE FABRY OUTCOME SURVEY (FOS)

R. MANARA(1), L. GINSBERG(2), M. SEVERINO(1), AR. VALENTINE(2), JT. CLARKE(3), B.

KENDALL(2), A. MEHTA(2), AP. BURLINA(4), BEHALF. FOS INVESTIGATORS GROUP
(1)Neuroradiology Unit, University Hospital of Padua Padua Italy, (2)Neuroscience Department, Royal Free Hospital, London, UK, (3)Division of Clinical and Metabolic Genetics, Hospital for Sick Children and University of Toronto Toronto, Canada, (4)Neurology Unit, S Bassiano Hospital, Bassano del Grappa, Italy

WHITE MATTER HYPERINTENSITIES OF THE CENTRUM SEMIOVALE IN DIFFUSION WEIGHTED IMAGING (DWI) WITH REDUCED APPARENT DIFFUSION COEFFICIENT (ADC): BEYOND BRAIN TERRITORIAL ISCHEMIA. A 7-YEAR EXPERIENCE

V. CITTON(1), R. MANARA(1), AB. BURLINA(2), AP. BURLINA(3), M. SEVERINO(1), R. MARDARI(1), M. CALDERONE(1), C. CAROLLO(1)

(1)Neuroradiology Unit - University of Padua Padua Italy, (2)Metabolic division of the Pediatric Department - University of Padua Padua, Italy, (3)Neurology Unit - S. Bassanio Hospital Bassano del Grappa, Italy

CAROTID PATHOLOGY AND BRAIN LESION: AN ANALYSIS BY USING MULTI-DETECTOR-ROW CT ANGIOGRAPHY

L. SABA, R. SANFILIPPO, R. MONTISCI, M. ATZENI, D. RIBUFFO, G. MALLARINI

Azienda Ospedaliera Universitaria, Cagliari, Italy

16.15-17.25 Scientific Papers VIII - Cerebrovascular Disease II (B3)

Chairpersons: Rolf Jaeger (UK), Guido Wilms (Belgium)

T-OCCLUSION OF THE CAROTID SIPHON : INTRA ARTERIAL THROMBOLYSIS IN 21 PATIENTS

S. BRACARD, A. LEBEDINSKY, R. ANXIONNAT, F. ROCA, M. LOUIS, L. PICARD

Neuroradiology Nancy France

PRELIMINARY EXPERIENCE WITH A DEDICATED THROMBASPIRATION SYSTEM (PENUMBRA™) FOR SUPERSELECTIVE RECANALIZATION IN ACUTE STROKE

I. SZIKORA, ZS. BERENTEI, ZS. KULCSAR, M. MAROSFOI, N. SZEGEDI, CS. OVARY

National Institute of Neurosurgery, Budapest, Hungary

REVASCULARIZATION WITH THE PENUMBRA SYSTEM™ IN ACUTE STROKE WITH MAJOR CLOT LOAD: INITIAL EXPERIENCE

Z. KULCSAR, H. YILMAZ, B. GORY, I. MOMIAN, C. BONVIN, R. SZTAJZEL, K.O. LOVBLAD, D.A. RUFENACHT

Geneva University Hospital Geneva Switzerland

EVIDENCE OF IMPROVED OUTCOMES FROM REVASCULARIZATION BY THE PENUMBRA MECHANICAL THROMBECTOMY DEVICE

T. GROBELNY

CINN- Chicago Institutes of Neurosurgery & Neuroresearch, Neurovascular & Stroke Program, Chicago, USA

THROMBUS ASPIRATION IN ACUTE ISCHEMIC STROKE

J. GERBER(1), A. MUELLER(1), D. MUCHA(1), O. WUNDERLICH(1), U. BECKER(2), V. PUETZ(2), R. VON KUMMER(1)

(1)University Hospital Carl Gustav Carus, Neuroradiology Dresden Germany, (2)University Hospital Carl Gustav Carus, Neurology, Dresden, Germany

ENDOVASCULAR TREATMENT OF STROKE WITH MECHANICAL DEVICE FOR THROMBUS ASPIRATION; OUR EXPERIENCE ON 11 CASES

N. NUZZI, M. ISALBERTI, C.M. CINNANTE, R. PAPA, C. SINA, A. COSTA, S. AVIGNONE, V. BRANCA

Fondazione IRCCS Ospedale Maggiore Policlinico Mangiagalli Regina Elena - Neuroradiologia Diagnostica e Interventistica, Milano, Italy

SELFEXPANDING STENTS FOR THE TREATMENT OF ICA AND MCA EMBOLISM

T. MAYER(1), G. FESL(2)

(1)Neuroradiologie, Friedrich-Schiller Universitaet Jena Germany, (2)Neuroradiologie, Ludwig-Maximilians Universitaet, T Muenchen, Germany

MAGNITUDE AND DISTRIBUTION OF WALL SHEAR STRESS IN SELF-EXPANDING INTRACRANIAL STENT: OPEN-CELL (NEUROFORM TREO) VERSUS CLOSED-CELL DESIGN (ENTERPRISE)

M. IONESCU(1), R.W. METCALFE(1), M. VALDIVIA Y ALVARADO(2), G. BENNDORF(2)

(1)Department of Mechanical Engineering Program, University of Houston Houston, Tx USA,

(2)Department of Radiology, The Methodist Hospital Research Institute Houston, Tx, USA

MIDTERM CLINICAL AND ANGIOGRAPHIC RESULTS OF MATRIX2

J. MORITZ, D. HOA, JF. VENDRELL, H. BRUNEL, C. RIQUELME, M. MOYNIER, A. BONAFE

CHU Montpellier, Montpellier, France

ENDOVASCULAR RECANALIZATION OF THE CHRONICALLY THROMBOSED INTERNAL CAROTID ARTERY. VERY PRELIMINARY RESULTS

MICHAEL. SÖDERMAN(1), TOMMY. ANDERSSON(1), STAFFAN. HOLMIN(1), HÅKAN. ALMQVIST(1), MIA. VON EULER(2)

(1)Departments of Neuroradiology Karolinska University Hospital Stockholm Sweden, (2)Departments of Neurology Karolinska University, Hospital, Stockholm, Sweden

Saturday, September 20, 2008
Morning

Lecture Hall 'A' - (Diagnostics)

08.00-09.15 Refresher Course II

Chairpersons: Barbara Hendrich (Poland), Jan Wilmink (The Netherlands)

08.00-08.25 **Postoperative spine**

Johan van Goethem (Belgium)

08.25-08.50 **Spinal extradural infections**

Turgut Tali (Turkey)

08.50-09.15 **Imaging in traumatic injuries of brachial plexus**

Marek J. Sasiadek (Poland)

09.20-11.05 Lecture and Scientific Session

Chairpersons: Olof Flodmark (Sweden), Charles Romanowski (UK)

09.20-09.45 **Imaging of non-neoplastic lesions of the sellar and parasellar regions**

Walter Kucharczyk (USA)

09.50-11.05 **Scientific Papers IX - Intracranial Tumours II (A5)**

EVALUATION OF LOW GRADE TUMOURS: USE OF A DYNAMIC VISUALIZATION AND A 3D VOLUMETRIC APPROACH ON FLAIR IMAGES

D. BALERIAUX(1), N. SADEGHI(1), O. SEWITTE(2), M. KAVEC(1)

(1)Department of Neuroradiology, Erasmus Hospital Brussels Belgium, (2)Department of Neurosurgery, Erasmus Hospital Brussels, Belgium

DETECTION OF EARLY RESPONSE TO THERAPY IN GLIOBLASTOMA MULTIFORME: MULTIPLE MRI TECHNIQUE FEASIBILITY

T. KAUFMANN, B. ERICKSON, J. PATRIARCHE, J. SARKARIA, D. HANSON, J. CAMP
Mayo Clinic, Rochester, USA

ARTERIAL SPIN LABELING COMPARED TO DYNAMIC SUSCEPTIBILITY CONTRAST PERFUSION MRI FOR CLINICAL EVALUATION OF BRAIN TUMOURS

H. JÄRNUM, E. STEFFENSEN, E-T. FRÜND, F.T. JENSEN, C. SIMONSEN, M.W. MUNK, E-M. LARSSON

AARHUS University Hospital/Aalborg Hospital - Department Of Radiology, Aalborg, Denmark

DIFFERENTIATING BETWEEN TUMEFACTIVE DEMYELINATING LESIONS AND GLIOMAS BASED ON PHYSIOLOGICAL (PERMEABILITY SURFACE AREA-PRODUCT) AND HEMODYNAMIC (CEREBRAL BLOOD VOLUME) PARAMETERS USING PERFUSION CT

R. JAIN, S. ELLIKA, N. LEHMAN, A. NARAYAN, L. SCHULTZ, J. ROCK, T. MIKKELSEN, S. PATEL

Henry Ford Health System, Detroit, USA

MULTIMODAL IMAGING OF TUMOR HETEROGENEITY IN CEREBRAL GLIOMAS

A. GRAMS(1), A. FOERSCHLER(1), J. GEMPT(2), S. ASTNER(3), A. DRZEZGA(4), C. ZIMMER(1)
(1)Dept. of Neuroradiology, Klinikum Rechts der Isar Munich Germany, (2)Dept. of Neurosurgery, Klinikum Rechts der Isar Munich, Germany, (3)Dept. of Radiation Oncology, Klinikum Rechts der Isar Munich Germany, (4)Dept. of Nuclear Medicine, Klinikum Rechts der Isar, Munich, Germany

IMAGING OF RATHKE'S CLEFT CYST DURING PREGNANCY

N. BILLON-GRAND, F. CATTIN, F. BONNEVILLE, J.F. BONNEVILLE
Service de Neuroradiologie Hôpital Jean Minjot, Besançon, France

FEMALE PITUITARY SIZE DEPENDING ON CYCLE AND HORMONE-SUBSTITUTION

A. FÖRSCHLER(1), A. GRAMS(1), J. GEMPT(2), J. KREUTZER(2), C. ZIMMER(1)
(1)Dept. of Neuroradiology, Klinikum rechts der Isar München Germany, (2)Dept. of Neurosurgery, Klinikum rechts der Isar München, Germany

3 YEAR LONGITUDINAL MRI FOLLOW-UP AND 1H SINGLE VOXEL MRS IN 20 PATIENTS WITH OLIGODENDROGLIAL TUMORS OR GLIOMATOSIS TREATED WITH TEMODAL

JM. CONSTANS(1,3), G. HOSSU(1), F. KAUFFMANN(2), A. SESBOUÉ(2), W. DOU(6), S. RUAN(4), S. GUILLAMO(3,5), F. RIOULT(7), JM. DERLON(5), E. LECHAPT-ZALCMANN(3,8), F. CHAPON(8), P. COURTHEOUX(1)

(1)Neuroradiology and MR unit, university hospital (CHU) Caen France, (2)LMNO CNRS UMR 6139 and Mathematics Department Caen, France, (3)CERVOxy and UMR CI-NAPS Caen, France, (4)CReSTIC EA 3804-IUT Troyes Troyes France, (5)Neurochirurgie and neurology, University Hospital (CHU) Caen France, (6)Tsinghua University, Beijing, China, (7)GREYC CNRS UMR 6072 Caen France, (8)Neuropathology, University Hospital (CHU), Caen, France

11.10-12.25 Scientific Papers X - Advanced MR Techniques II (A6)

Chairpersons: Walter Kucharczyk (USA), Andrea Rossi (Italy)

LOCALISATION OF THE NUCLEUS TEGMENTALIS PEDUNCULOPONTINUS WITH DTI FOR THE PLANNING OF DEEP BRAIN STIMULATOR PLACEMENT

C. ROMANOWSKI(1), J. ROWE(2), C. ISAAC(3), A. KHAN(4), T.Z. AZIZ(5), M. HUTTON(1), I.D. WILKINSON(1)

(1)Academic Radiology, University of Sheffield Sheffield UK, (2)Neurosurgery, Royal Hallamshire Hospital Sheffield, UK, (3)Neuropsychology, University of Sheffield Sheffield UK, (4)Neurology, Royal Hallamshire Hospital Sheffield, UK, (5)Nuffield Dept of Surgery, Oxford University, Oxford, UK

DOES REPETITION TIME (TR) AND NEX AFFECT THE ACCURACY OF MR DIFFUSION WEIGHTED IMAGING?

A. CELIK(1), SAIT. ALBAYRAM(2)

(1)GE Healthcare Istanbul Turkey, (2)Cerrahpasa University, Istanbul, Turkey

MAGNETIZATION TRANSFER RATIO MEASUREMENTS OF GRAY AND WHITE MATTER IN PARKINSON'S DISEASE

M. GAVRA(1), M. PAPATHANASIOU(1), E. BOVIATIS(2), M. THEMISTOKLEOUS(2), A. GOULIAMOS(1)

(1)2NDDepartment of Radiology, Attikon Hospital, University of Athens, Medical School Athens, Greece, (2)Department of Neurosurgery, Evangelismos General Hospital, University of Athens, Medical School, Athens, Greece

ESTIMATION OF MULTIPLE FIBER ORIENTATIONS FROM BRAIN DIFFUSION WEIGHTED IMAGES

M. GALVEZ(1), J. CISTERNAS(2), T. ASAHI(3), G. ROJAS(4), L. CARTIER(2), E. BRAVO(1), G. SORDO(1), G. QUIROZ(1)

(1)Servicio Neuroradiología Ins. Dr. Asenjo. Universidad de Chile Santiago Chile, (2)Universidad de los Andes Santiago Chile, (3)Centro de Modelamiento Matemático Universidad de Chile Santiago Chile, (4)Servicio Neurología, Hospital Salvador. Universidad de Chile, Santiago, Chile

THE HUMAN NUCLEUS ACCUMBENS – ANATOMICAL AND MRI COMPARATIVE STUDY

L. LUCAS NETO(1,2), E. OLIVEIRA(1), F. CORREIA(1), A. GONÇALVES FERREIRA(1,3)

(1)Anatomy Institute - Lisbon Faculty of Medicine Lisbon Portugal, (2)Neuroradiology Department - Santa Maria Hospital Lisbon, Portugal, (3)Neurosurgery Department - Santa Maria Hospital Lisbon Portugal

DELIENATION OF DEEP PONTINE AND CEREBELLAR NUCLEI AT 3 TESLA MULTIMODAL MRI

T. LÖNNFORS-WEITZEL(1), T. WEITZEL(2), C. KIEFER(1), G. SCHROTH(1), A. SIBAL(3), C. OZDOBA(1)

(1)Institute of Diagnostic and Interventional Neuroradiology Bern Switzerland, (2)Department of Nuclear Medicine Bern, Switzerland, (3)Department of Neurosurgery, Bern, Switzerland

12.30–13.30 ESNR General Assembly

Lecture Hall 'B'- (Interventional)

08.00-09.15 Refresher Course IV

Chairperson: Tomasz Jargiello (Poland)

08.00-08.25 **Imaging and endovascular treatment of brain AVMs**

Maciej Szajner (Poland)

08.25-08.50 **Endovascular treatment in spinal AVMs**

Timo Krings (Germany)

08.50-09.15 **Endovascular treatment of skull base tumors**

Rene Chapot (France)

09.20-11.20 Interventional Round Table

MICROINTERVENTIONAL PROCEDURES IN DISC PATHOLOGY

Chairpersons: Jacques Chiras (France), Massimo Gallucci (Italy)

09.20-09.25 **Introduction: Reasons for spinal microinterventional neuroradiology**

Massimo Gallucci (Italy)

09.25-09.35 **Techniques and main devices**

Gianni Pellicanò (Italy)

09.35-09.55 **Microinterventions in discogenic pain**

Ansgar Berlis (Germany)

New approaches for lumbar disk disease; indication, technique and results

09.55-10.15 **- Oxygen-ozone**

Mario Muto (Italy)

10.15-10.35 **- Gelified ethanol**

Jacques Theron (France)

10.35-10.55 **-Endoscopic therapy**

Juergen Reul (Germany)

10.55-11.55 **-Cervical disc: possibilities and limits**

Marco Leonardi (Italy)

11.15-11.20 **-Conclusive remarks**

Jacques Chiras (France)

11.25-12.25 Scientific Papers XI - Interventional Neuroradiology: Spine/ Head and Neck (B5)

Chairpersons: Gianni Pellicanò (Italy), Luc van den Hauwe (Belgium)

CT-GUIDED AMBULANT INFILTRATIVE TREATMENT OF BENINGE SPINE INDUCED PAIN - ATTEMPT OF POSITIONING IN DAY-TO-DAY WORK

U. REMMES(1,2)

(1)Inst. for Radiology Dusseldorf Germany, (2)Royal Society of Medicine, London, UK

COMBINED PERCUTANEOUS AND ENDOVASCULAR TREATMENT FOR THE SYMPTOMATIC ANEURYSMAL BONE CYST OF THE SPINE: PRESENTATION OF 3 CASES

M. MUTO, G. GUARNIERI, G. AMBROSANIO, R. IZZO, A. DIANO

Cardarelli Hospital, Naples, Italy

INITIAL CLINICAL EXPERIENCE WITH RADIO-FREQUENCY BASED VERTEBRAL AUGMENTATION IN TREATMENT OF VERTEBRAL COMPRESSION FRACTURES

M. MAROSFOI, ZS. KULCSAR, I. SZIKORA

National Institute of Neurosurgery, Budapest, Hungary

THE PERI-SIGMOID HALO SIGN: REFINING CT DIAGNOSIS IN ACUTE COALESCENT OTOMASTOIDITIS.

Y. SEGEV-SHNAPIK(1), G. FISHMAN(2), A. BRENNER(1), A. DEROWE(2)

(1)Tal-Aviv Sourasky Medical Center, Department of Radiology Tel-Aviv Israel, (2)Tal-Aviv Sourasky Medical Center, Department of ENT, Tel-Aviv, Israel

ULTRASONOGRAPHIC FEATURES OF FOLLICULAR VARIANT PAPILLARY THYROID CARCINOMA: MIMICKER OF A BENIGN THYROID NODULE

J. KIM(1), K. CHANG(1), E. KIM(1), C. SOHN(1), D. KIM(2)

(1)Seoul National University Seoul South Korea, (2)Seoul Regional Military Manpower Administration Seoul South Korea

IMPACT OF SUPERSELECTIVE HIGH DOSE CISPLATIN INFUSION THERAPY FOR MAXILLARY CANCER WITH ORBITAL INVASION.

M. KANOTO(1), H. TOYOGUCHI(1), Y. KURODA(1), A. ODA(1), T. HONMA(1), Y. SUGAI(1), T. HOSOYA(1), K. NEMOTO(2), A. ISHIDA(3), S. KOIKE(3)

(1)Yamagata University Department of Radiology Yamagata Japan, (2)Yamagata University Department of Radiation Oncology Yamagata Japan, (3)Yamagata University Department of Otorhinolaryngology Yamagata, Japan

PRESACCAL STENOSIS AS A CAUSE OF EPIPHORA

A. BINK(1), M. LÜCHTENBERG(2), J. BERKEFELD(1)

(1)Department of Neuroradiology Frankfurt am Main Germany, (2)Department of Ophthalmology, Frankfurt am Main, Germany

Afternoon

Lecture Hall 'A' - (Diagnostics)

14.30-16.20 Lecture and Scientific Session

Chairpersons: Paolo Tortori-Donati (Italy), Robert Zimmerman (USA)

14.30-14.55 **Fetal imaging of the brain and spine and its impact on intrauterine treatment**

Robert Zimmerman (USA)

15.00-16.20 **Scientific Papers XII - Pediatric Neuroradiology (A7)**

THE SHAKEN BABY SYNDROME: HOW SENSITIZED AND INVOLVED IS NEURORADIOLOGY IN DETECTION AND PREVENTION?

J. ZAJACZEK, B. HAUBITZ, H. LANFERMANN, E. BÜLTMANN

(1)Hannover Medical School; Inst. of Intervent. and Diagnostic Neuroradiology, Hannover, Germany

WHITE MATTER INVOLVEMENT IN GALACTOSEMIA (GAL): A DIFFUSION WEIGHTED IMAGING STUDY

M. MARZURA(1), R. MANARA(1), M. SEVERINO(1), R. MARDARI(1), V. CITTON(1), M. DEL RIZZO(2), AP. BURLINA(3), AB. BURLINA(2)

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BRAIN MRI IN GLUTARIC ACIDURIA TYPE I (GA-I): NEW FINDINGS WITH DIFFUSION WEIGHTED IMAGING (DWI)

M. SEVERINO(1), R. MANARA(1), V. CITTON(1), R. MARDARI(1), AP. BURLINA(2), C. CAROLLO(1), AB. BURLINA(3)

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BRAIN MAGNETIC RESONANCE FINDINGS IN SYMPTOMATIC CONGENITAL CYTOMEGALOVIRUS INFECTION

R. MANARA(1), L. BALAO(2), P. DRIGO(2), R. D'ELIA(3), EM. RUGA(3)

(1)Neuroradiology Unit, University Hospital of Padua Padua Italy, (2)Department of Pediatrics, University of Padua Padua Italy, (3)Division of Pediatric Infectious Diseases, Department of Pediatrics, University of Padua, Padua, Italy

LONG-TERM MANAGEMENT IN THE CLASSICAL FORM OF PKU: CAN BRAIN MR DIFFUSION WEIGHTED IMAGING BE A GUIDING LIGHT?

V. CITTON(1), R. MANARA(1), AP. BURLINA(2), AB. BURLINA(3), M. SEVERINO(1), R. MARDARI(1), M. RAPSOMANIKI(3), C. CAROLLO(1)

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PRENATAL MAGNETIC RESONANCE IMAGING (MRI) AND ITS INFLUENCE ON MENINGOCELE INTRAUTERINE SURGERY QUALIFICATION.

I. HERMAN-SUCHARSKA(1), A. URBANIK(1), J. ZAMLUNSKI(2), J. BOHOSIEWICZ(3), A. OLEJEK(2), A. GAJEWSKA(2), M. SZAFIRSKA(1), K. SPREZAK(4), P. TOTA(4)

(1)Radiology Department, Jagiellonian University Hospital Cracow Poland, (2)Obstetrics and Gynecology Department and Clinic, Silesian University Bytom Poland, (3)Pediatric Surgery Department and Clinic, Silesian University Katowice Poland, (4)Members of Students Scientific Society, Group of Radiology, Jagiellonian Medical College, Cracow, Poland

FETAL MR IMAGING AND ITS INFLUENCE ON PROGNOSIS AND THERAPY USED IN CASES WITH CENTRAL NERVOUS SYSTEM DEFECTS IN COMPARISON TO PRENATAL ULTRASOUND.

I. HERMAN-SUCHARSKA(1), A. URBANIK(1), M. NARDZEWSKA-SZCZEPANIK(1), A. MAMAK-BALAGA(2), J. TOMASZCZUK(2), ST. KWIATKOWSKI(3), K. SPREZAK(4), P. TOTA(4)

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**16.25-17.25 Case Review Session
Pediatric neuroradiology
Andrea Rossi (Italy)**

**17.30-18.30 Case Review Session
The spine
Johan van Goethem (Belgium)**

Afternoon

Lecture Hall 'B' - (Interventional)

**14.00-14.30 Bracco Symposium
More with less: the value of high contrast-to-noise ratio in MR neuroimaging
Efficacy and safety considerations**

Howard A. Rowley (USA)

14.30-16.10 Lecture and Scientific Session

Chairpersons: Rene Chapot (France), Maciej Szajner (Poland)

14.30-14.55 Curative embolization of brain AVMs

Anton Valavanis (Switzerland)

15.00-16.10 Scientific Papers XIII - Interventional Neuroradiology: Brain III (B7)

ENDOVASCULAR TREATMENT ONLY WITH INTRACRANIAL SELF-EXPANDABLE STENT FOR UNRUPTURED SYMPTOMATIC CEREBRAL CAROTID ANEURYSM: PRESENTATION OF TWO CASES WITH SHORT-TERM FOLLOW-UP

M. MUTO, G. GUARNIERI, P. VASSALLO, G. AMBROSANIO, A. LAVANGA

Cardarelli Hospital, Naples, Italy

PATIENTS PRONE TO RECURRENCE AFTER ENDOVASCULAR TREATMENT: THE PRE-TRIAL

D. ROY(1), P. WHITE(2), A. WEILL(1), F. GUILBERT(1), J. RAYMOND(1)

(1)CHUM Notre-Dame Hospital Montreal, Canada, (2)University of Edinburgh, Edinburgh, UK

ENDOVASCULAR TREATMENT OF EXTRACRANIAL CAROTID AND VERTEBRAL PSEUDOANEURYSMS WITH COVERED STENTS

L. LUCAS NETO, P. SEQUEIRA, R. SOUSA, M. GUEDES, C. SANTOS, S. REIMÃO, J. CAMPOS

Neuroradiology Department - Santa Maria Hospital, Lisbon, Portugal

A NEW TECHNICAL APPROACH TO COAXIAL CATHETERIZATION

M. LEONARDI

Neuroradiology Department, Bellaria Hospital, University of Bologna, Bologna, Italy

ONYX EMBOLIZATION OF CEREBRAL ARTERIOVENOUS MALFORMATIONS WITH A CURATIVE INTENT IN 101 PATIENTS

V. KATSARIDIS, C. PAPAGIANNAKI, E. AIMAR

Papanikolaou General Hospital, Thessaloniki, Greece

TREATMENT OF INTRA-OPERATIVE STENT THROMBOSIS WITH LOCAL INTRA-ARTERIAL ADMINISTRATION OF EPTIFIBATIDE

V. KATSARIDIS, C. PAPAGIANNAKI, E. AIMAR

Papanikolaou General Hospital Thessaloniki Greece

COIL EMBOLIZATION OF CAVERNOUS SINUS IN PATIENTS WITH DIRECT AND DURAL AVF

A. BINK(1), J. BERKEFELD(1), E. GÜRESIR(2), O. SINGER(3), M. LÜCHTENBERG(4), F.E. ZANELLA(1), R. DU MESNIL DE ROCHEMONT(1)

(1)Department of Neuroradiology Frankfurt Germany, (2)Department of Neurosurgery Frankfurt Germany, (3)Department of Neurology Frankfurt Germany, (4)Department of Ophthalmology Frankfurt, Germany

TREATMENT OF BRAIN AVM BY ONYX: RESULTS FROM A SINGLE CENTER

S. SALEME, C. CRUSIUS, P. GUEDIN, P. COURTHÉOUX

CHU de Caen - Department of Neuroradiology Caen France

ENDOVASCULAR TREATMENT OF BRAIN AVMS USING ONYX : PRELIMINARY RESULTS OF BRAVO SERIES

L. PIEROT(1), H. FRANSEN(2), C. COGNARD(3), W. VAN ROOIJ(4), E. BOCCARDI(5), A. BELTRAMELLO(6), D. HERBRETEAU(7), N. SOUROUR(8), K. KUPCS(9), A. BIONDI(8), W. REITH(10), A. BONAFE(11), P. COURTHEOUX(12), A. CASASCO(13)

(1)Hôpital Maison-Blanche Reims France, (2)AZ Sint Lukas and Volkskliniek Gent Belgium, (3)Hôpital Purpan Toulouse France, (4)Elisabeth Ziekenhuis Tilburg The Netherlands, (5)AO Niguarda Ca Granda Niguarda Italy, (6)AO Istituti Ospitalieri di Verona, Verona Italy, (7)CHU Tours France, (8)Hôpital Pitié-Salpêtrière Paris France, (9)P. Stradins Clinical University Hospital, Riga, Latvia,

(10)Universitätsklinikum des Saarlandes Homburg, Germany, (11)Hopital Guide Chauillac, Montpellier, France, (12)Hopital Cote de Nacre, Caen, France, (13) Sanitorio del Rosario, Madrid, Spain

**TRANSVENOUS EMBOLIZATION OF TYPE IIB DURAL ARTERIOVENOUS FISTULAS:
REPORT OF 3 CASES**

E. HOFMANN(1), H.T. HARBECK(1), L. CHONE(1), S. GEMEINHARDT(1), R. BEHR(2)
(1)Klinikum Fulda - Department of Neuroradiology Fulda Germany, (2)Klinikum Fulda - Department of Neurosurgery Fulda, Germany

16.15-17.25 Scientific Papers XIV - Cerebrovascular Disease III (B6)

Chairpersons: Peter Barsi (Hungary), Athanassios Gouliamos (Greece)

**COMPUTER-AIDED, ATLAS-ASSISTED PROCESSING AND QUANTIFICATION OF CT
AND MR SCANS IN STROKE**

W. NOWINSKI(1), GY. QIAN(1), KN. BHANU PRAKASH(1), I. VOLKAU(1), V. GUPTA(1), F. PUSPITASARI(1), J. HU(1), J. LIU(1), S. HUANG(1), R. KAZMIERSKI(2), W. AMBROSIUS(2), A. URBANIK(3), R. CHRZAN(3), NJ. BEAUCHAMP(4)

(1)Agency for Science Technology and Research Singapore Singapore, (2)Poznan University of Medical Sciences Poznan Poland, (3)Collegium Medicum, Jagiellonian University Cracow Poland, (4)University of Washington Medical Center, Washington, USA

**CEREBRAL VASCULATURE IN THREE DIMENSIONS AND ITS CORRELATION WITH
IMAGING NEUROANATOMY BASED ON 3T AND 7T ACQUISITIONS**

W. NOWINSKI(1), A. THIRUNAVUUKARASUU(1), I. VOLKAU(1), Y. MARCHENKO(1), B. AMINAH(1), F.PUSPITASARI(1), N. NOWINSKA(1), TT. NG(1), GY. QIAN(1), J. LIU(1), S. HUANG(1), A. GELAS(1), LC. LEE(1), MV. KNOPP(2), VM. RUNGE(3)

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4D IMAGING IN CEREBROVASCULAR INSUFFICIENCY BY USING 320-SLICE CT

R. KLINGEBIEL(1), E. SIEBERT(1), M. DEWEY(2), F. ENGELKEN(2), HC. BAUKNECHT(1), S. DIEKMANN(1), F. MASUHR(3), G. BOHNER(1)

(1)Charité, Dept. of Neuroradiology Berlin Germany, (2)Charité, Dept. of Radiology Berlin Germany, (3)Charité, Dept. of Neurology, Berlin, Germany

**FOLLOW-UP OF INTRACRANIAL ANEURYSMS TREATED WITH DETACHABLE COILS:
COMPARISON OF 3D INFLOW MRA AT 3T AND 1.5T AND CONTRAST-ENHANCED
MRA AT 3T WITH DSA**

B. RAMGREN(1), R. SIEMUND(1), M. CRONQVIST(1), P. UNDREN(1), O. NILSSON(2), S. HOLTÅS(1), E-M. LARSSON(3)

(1)Department of Neuroradiology, Center for Medical Imaging and Physiology, Lund University Hospital Lund Sweden, (2)Department of Neurosurgery, Lund University Hospital Lund Sweden, (3)Department of Radiology, Arhus University Hospital/Aalborg Hospital, Aalborg, Denmark

**HEMORRHAGE RISK IN BRAIN ARTERIOVENOUS MALFORMATIONS (AVMS) IS
RELATED TO HIGH FLOW IN DEEP VENOUS STRUCTURES**

T. ILLIES, N. FORKERT, D. SAERING, J. REGELSBERGER, M. WESTPHAL, U. GRZYSKA, J. FIEHLER

University Hospital Hamburg Eppendorf, Hamburg, Germany

**TERRITORIAL AND MICROVASCULAR PERFUSION - THE TWO LEVELS OF
PERFUSION IMPAIRMENT IN BRAIN ARTERIOVENOUS MALFORMATIONS**

J. FIEHLER(1), T. ILLIES(1), D. SARING(2), N. FORKERT(2), J. REGELSBERGER(3), U. GRZYSKA(1), H. HANDELS(2), J.V. BYRNE(4)

(1)Department of Neuroradiology Hamburg Germany, (2)Department of Medical Informatics Hamburg Germany, (3)Department of Neurosurgery Hamburg Germany, (4)Department of Neuroradiology, Oxford, UK

Sunday, September 21, 2008

Lecture Hall 'A' - (Diagnostics)

08.00-08.50 Refresher Course V

Chairpersons: Barbara Bobek-Billewicz (Poland)

08.00-08.25 **Craniocerebral trauma**

Monika Bekesinska-Figatowska (Poland)

08.25-08.50 **Spine and spinal cord injuries**

Luc van den Hauwe (Belgium)

09.00-10.40 Lecture and Scientific Session

Chairpersons: Guenther Erich Klein (Austria), Jerzy Walecki (Poland)

09.00-09.25 **Aneurysmal vasculopathies in children**

Pierre Lasjaunias (France) – presented by Timo Krings (Germany)

09.30-10.40 **Scientific Papers XV - Cerebrovascular Disease IV (A8)**

**UTILIZING THE NOVEL "DYNAMIC HISTOGRAM ANALYSIS" WITH
PERFUSION-WEIGHTED MRI IN ACUTE ISCHEMIC STROKE: CHARACTERISTICS OF
PENUMBRA VERSUS INFARCT**

M. EL-KOUSSY, R. WIEST, J. GRALLA, C.T. SCHUETZ, L. KAPPELER, G. SCHROTH, J.
SLOTBOOM

University Bern, Bern, Switzerland

**CEREBROVASCULAR RESERVE EVALUATION ON MRI FOR INTRACRANIAL
ARTERIES STENOSIS. FAISIBILITY AND INTEREST**

S. BRACARD, M. TISSERAND, S. FOSCOLO, E. SCHMITT, A.S. RIVIERRE, R. ANXIONNAT
Neuroradiologie Diagnostique et Thérapeutique Hopital Central Nancy France

**PREOPERATIVE VISUALISATION OF NEUROVASCULAR ANATOMY IN PATIENTS
WITH NEUROVASCULAR COMPRESSION SYNDROME: A COMPARISON BETWEEN
1.5T AND 3T MRI**

M. GARCIA(1), R. NARAGHI(2), P. HASTREITER(2), M. DÖLKEN(1), G. RICHTER(1), A.
DÖRFLER(1)

(1)Department of Neuroradiology, University Hospital Erlangen Erlangen Germany, (2)Department of
Neurosurgery, University Hospital Erlangen, Erlangen, Germany

**IMPROVED CORTICAL REPERFUSION PROTECTS COAGULATION FACTOR
XII-DEFICIENT MICE FROM CEREBRAL INFARCTION AS REVEALED BY
MULTIMODAL HIGH-FIELD MRI AT 17.6T**

M. PHAM(1), C. KLEINSCHNITZ(2), X. HELLUY(3), A.J. BARTSCH(4), M. AUSTINAT(2), T.
RENNÉ(5), G. STOLL(2), M. BENDSZUS(1)

(1)Department of Neuroradiology Heidelberg Germany, (2)Department of Neurology Wuerzburg
Germany, (3)Department of Experimental Physics Wuerzburg Germany, (4)Department of
Neuroradiology Wuerzburg Germany, (5)Institute of Clinical Biochemistry and Pathobiochemistry
Wuerzburg, Germany

**BLOCKADE OF THE GLYCOPROTEIN IB RECEPTOR SECURES MICROSVASCULAR
PATENCY AND PROTECTS MICE FROM EXPERIMENTAL CEREBRAL INFARCTION
AS REVEALED BY MULTIMODAL HIGH-FIELD MRI AT 17.6T**

M. PHAM(1), C. KLEINSCHNITZ(2), X. HELLUY(3), A.J. BARTSCH(4), M. AUSTRINAT(2), B.
NIESWANDT(5), G. STOLL(2,1), M. BENDSZUS(1)

(1)Department of Neuroradiology, University of Heidelberg Heidelberg Germany, (2)Department of
Neurology, University of Wuerzburg, Wuerzburg, Germany, (3)Department of Experimental Physics,
University of Wuerzburg, Wuerzburg, Germany, (4)Department of Neuroradiology, University of
Wuerzburg Wuerzburg Germany, (5)Institute for Clinical Biochemistry and Pathobiochemistry,
University of Wuerzburg, Wuerzburg, Germany

SARA - A TELERADIOLOGY NETWORK FOR INTERDISCIPLINARY STROKE TREATMENT SUPPORT

A. ROESLER

Diagnostic and Interventional Neuroradiology Department of Radiology / Klinikum Augsburg Augsburg Germany

CEREBRAL DIFFUSION AND PERFUSION MRI AS PROGNOSTIC TOOLS IN COMATOSE PATIENTS TREATED WITH HYPOTHERMIA - A PROSPECTIVE OBSERVATIONAL STUDY

H. JÄRNUM(1), L. KNUTSSON(2), M. RUNDGREN(3), R. SIEMUND(4), E. ENGLUND(5), H. FRIBERG(3), E-M. LARSSON(1,4)

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10.45-11.55 Scientific Papers XVI - Degenerative diseases of the brain II (A9)

Chairpersons: Monika Bekesinska-Figatowska (Poland), Pia Maly Sundgren (USA)

SURVEY OF IMAGING IN THE INVESTIGATION OF DEMENTIA IN THE UNITED KINGDOM

S. NAGARAJA(1), G. QUAGHEBEUR(1), G. WILCOCK(2)

(1)Department of Neuroradiology Oxford UK, (2)Department of Geratology Oxford UK

CORRELATION OF PERFUSION CT AND CT VOLUMETRY IN PATIENTS WITH ALZHEIMER'S DISEASE

A. CZARNECKA, A. ZIMNY, J. FILARSKI, M.J. SASIADEK

Dep. of General Radiology, Interventional Radiology and Neuroradiology, Wroclaw Medical University, Wroclaw, Poland

THE COMPARISON OF VOLUMETRIC AND COMPUTER INTERACTIVE FRACTAL METHODS BASED ON CT STUDIES IN EVALUATION OF CORTICAL AND SUBCORTICAL ATROPHY OF THE BRAIN IN PATIENTS WITH DEMENTIA

A. CZARNECKA(1), E. HUDYMA(2), H. KWASNICKA(2), M. PARADOWSKI(2), M.J. SASIADEK(1)

(1)Dep. of General Radiology, Interventional Radiology and Neuroradiology, Wroclaw Medical University Wroclaw Poland, (2)Institute of Applied Informatics, Wroclaw University of Technology Wroclaw Poland

CURRENT ROLE OF BRAIN CT AND SPECT IN PREDICTION OF DETERIORATION IN PATIENT PRESENTED MILD COGNITIVE IMPAIRMENT (MCI)

A. PAWLOWSKA-DETKO(1), J. WALECKI(1), T. GABRYELEWICZ(2), J. CWIKLA(1), J. MISKO(1), A. PFEFFER(2), L. KROLICKI(3), M. BARCIKOWSKA(2)

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THE COMPARISON OF CORPUS CALLOSUM AREA AND BRAIN VOLUME AMONG ALZHEIMER'S DISEASE, MILD COGNITIVE IMPAIRMENT AND HEALTHY CONTROL

122

H. SEO(1), HS. CHOI(1), KK. KIM(2), Y. YOON(1)

(1)Department of Radiology, Dongguk University International Hospital, Goyang-si, South Korea, (2)Department of Neurology, Dongguk University International Hospital, Goyang-si, South Korea

ANALYSIS OF THE BRAIN WATER SIGNAL DECAY IN MR DIFFUSION-WEIGHTED IMAGING IN PATIENTS WITH LIVER CIRRHOSIS

151

A. ROVIRA(1), L. CHAVARRIA(1, 2), F. AYMERICH(1,3), R. GARCIA(1,2), J. CORDOBA(1,2), J. ALONSO(1,2)

(1)Hospital Vall d'Hebron Barcelona Spain, (2)Centro de Investigacion Biomedica en Red de Enfermedades Hepaticas Spain, (3)Departament d'Enginyeria de Sistemes, Automatica i Informatica Industrial. Universitat Politecnica de Catalunya, Barcelona, Spain

**BRAIN INVOLVEMENT IN MYOTONIC DYSTROPHY TYPE 1 (DM1) AND TYPE 2 (DM2):
MAGNETIC RESONANCE IMAGING (MRI), CLINICAL AND COGNITIVE PROFILE**
C. FERRATI(1), R. MANARA(2), V. ROMEO(1), F. SQUARZANTI(1), E. PEGORARO(1), C.
CAROLLO(2), C. ANGELINI(1)

(1)Dept of Neurosciences, University of Padua Padua, Italy, (2)Neuroradiological Unit, University
Hospital of Padua, Padua, Italy

12.00-12.30 Closing Lecture

Chairperson : Marek Sasiadek (Poland)

Neuroradiology decision support in the 21th century
Ann Osborn (USA)

Lecture Hall 'B'- (Interventional)

10.45-11.55 Scientific Papers XVII - Interventional Neuroradiology: Brain IV (B8)

Chairpersons: Mario Muto (Italy), Vitor Pereira (France)

**PACKING DENSITIES USING BALLOON REMODELING TECHNIQUES AND RATE OF
ANEURYSM OCCLUSION**

R. TURNER(1), M. KELLY(2), V. GONUGUNTA(3), D. FIORELLA(4)

(1)Medical University of South Carolina - Department of Neurological Surgery and Neuroradiology
Charleston USA, (2)University of Saskatchewan - Department of Neurological Surgery Saskatoon
Canada, (3)Cleveland Clinic Foundation - Department of Neurological Surgery Cleveland USA,
(4)Barrow Neurological Institute - Department of Neurological Surgery and Neuroradiology Phoenix
USA

**BALLOON REMODELING AND HYDROGEL-COATED COILS: PACKING DENSITIES
AND OCCLUSION RATES**

R. TURNER(1), M. KELLY(2), V. GONUGUNTA(3), D. FIORELLA(4)

(1)Medical University of South Carolina - Departments of Neurological Surgery and Neuroradiology
Charleston USA, (2)University of Saskatchewan - Department of Neurological Surgery Saskatoon
Canada, (3)Cleveland Clinic Foundation - Department of Neurological Surgery, Cleveland, USA,
(4)Barrow Neurological Institute - Departments of Neurological Surgery and Neuroradiology, Phoenix,
USA

**IS BALLOON-ASSISTED COIL EMBOLIZATION OF UNRUPTURED ANEURYSMS
DANGEROUS? ANALYSIS IN ATENA SERIES**

L. PIEROT(1), L. SPELLE(2), C. COGNARD(3), X. LECLERC(4), A. BONAFE(5)

(1)Hôpital Maison Blanche Reims France, (2)Fondation Rothschild Paris France, (3)Hôpital Purpan
Toulouse France, (4)CHU Lille, France, (5)CHU, Montpellier, France

**UNRUPTURED INTRACRANIAL ANEURYSMS TREATED BY ENDOVASCULAR
APPROACH: RESULTS OF THE ATENA STUDY**

L. PIEROT(1), L. SPELLE(2), F. VITRY(1)

(1)Hôpital Maison-Blanche Reims France, (2)Fondation Rothschild, Paris, France

**NEUCRYLATE, A NEW LIQUID EMBOLIC AGENT FOR ANEURYSM THERAPY. INITIAL
CLINICAL RESULTS**

R SEAN. PAKBAZ(1), CHARLES. KERBER(1), HOSSEIN. GHANAATI(2), SHAHRAM.
AKHLAGHPOOR(3), ALI. SHAKOURI RAD(3)

(1)University of California, San Diego Medical Center San Diego, USA, (2)University of Tehran,
Tehran, Iran, (3)Tehran University of Medical Sciences, Tehran Iran

**SHORT TERM (14 MONTHS) EXPERIENCE WITH A NEW, DETACHABLE TIP
MICROCATETER- THE SONIC. COMPLICATION, INDICATION, PROS AND CONS**

S. MAIMON(1), J. LUCKMAN(2), V. PROLOV(3), Z. RAM(4)

(1)Sourasky Medical Center Tel Aviv Israel, (2)Rabin Medical Center Tel Aviv Israel, (3)Sourasky Medical Center Tel Aviv Israel, (4)Sourasky Medical Center, Tel Aviv, Israel

RADIOLOGICAL FOLLOW-UP OF EMBOLIZED INTRACRANIAL ANEURYSM WITH DETACHABLE COILS. 160 CASES – OWN EXPERIENCE

A. DOWZENKO(1), W. CZEPIEL(2), P. RICHTER(3), A. KOBAYASHI(2)

(1)Institute of Psychiatry and Neurology - Department of Endovascular Procedures of Central Nervous System Warsaw Poland, (2)Institute of Psychiatry and Neurology - 2nd Department of Neurology Warsaw Poland, (3)Institute of Psychiatry and Neurology - 1st Department of Neurology, Warsaw, Poland

INITIAL STUDY OF FUNCTIONAL AND ANGIOGRAPHIC RESULTS OF ENDOVASCULAR TREATMENT OF ARTERIOVENOUS-MALFORMATIONS USING HISTACRYL GLUE

M. BUJKO(1), K. KORDECKI(2), P. BILINSKI(1), M. ZABEK(1)

(1)Department of Neurosurgery Postgraduate Education Medical Center Warsaw Poland, (2)Medical University of Bialystok Bialystok, Poland

INITIAL COMPARATIVE STUDY OF TREATMENT OF ANTERIOR COMMUNICATING ANEURYSMS BY USING DIRECT CLIPPING OR ENDOVASCULAR ROUTE.

M. BUJKO(1), K. KORDECKI(2), P. BILINSKI(1), M. ZAWADZKI(3), M. ZABEK(1)

(1)Department of Neurosurgery Center of Postgraduate Medical Education Warsaw Poland, (2)University of Medicine Bialystok, Poland, (3)Central Hospital of Ministry of Interior and Administration, Warsaw, Poland

INTRACRANIAL BLEEDING DURING THE LATENCY PERIOD AFTER GAMMA KNIFE SURGERY FOR DURAL ARTERIOVENOUS SHUNTS COMPARISON TO THE NATURAL HISTORY

MICHAEL SÖDERMAN(1), TOMMY ANDERSSON(1), STAFFAN HOLMIN(1), BENGT KARLSSON(3), BODO LIPPITZ(2)

(1)Departments of Neuroradiology Karolinska University Hospital Stockholm Sweden, (2)Departments of Neurosurgery Karolinska University Hospital Stockholm Sweden, (3)Departments of Neurosurgery University of West Virginia West Virginia, USA