



XXXIX ANNUAL MEETING, 23RD ADVANCED COURSE IN DIAGNOSTIC NEURORADIOLOGY & 8TH ADVANCED COURSE IN INTERVENTIONAL NEURORADIOLOGY OF THE EUROPEAN SOCIETY OF NEURORADIOLOGY

SEPTEMBER 15-18, 2016 • BELGRADE / SERBIA



ESNR CENTRAL OFFICE

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CONGRESS PRESIDENT

Prof. Dr. Tatjana STOSIC-OPINCAL,

M.D, PhD Professor of Radiology and Neuroradiology
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ORGANIZING SECRETARIAT

»»» DEKON
CONGRESS & TOURISM

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PROGRAMME BOOKLET



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WELCOME ADDRESS

It is my great honor and pleasure to welcome you in Belgrade. This year Belgrade will host our 39th ESNR Annual Meeting, with 23rd Advanced Course on Diagnostic Neuroradiology and 8th Advanced Course on Interventional Neuroradiology. Courses will be held on September 15th, and Annual meeting from September 16th till September 18th.

This meeting will provide you with interesting scientific program enriched with multiple educational workshops, scientific lectures related to both, clinical problems and scientific topics. Numerous distinguished lecturers and experts from all around the world will join their efforts to present current topics and interesting cases, covering all fields of Neuroradiology. We invite you to take active participation during the sessions, since such meetings are a unique opportunity for the exchange of knowledge and experiences between colleagues from different countries and continents. The 39th ESNR Annual Meeting will offer the opportunity for younger radiologist to present their work and achievements through poster presentation and parallel scientific sessions.

After a hard working day, we offer you the opportunities to explore and enjoy Belgrade, the city which lays at the confluence of the Sava and the Danube rivers, through the social events that we have arranged for you. Belgrade is one of the oldest cities in Europe and has been an important crossroad since ancient times. It's the place where Western and Eastern Europe meet. Belgrade presents at the same time a mixture of a modern European metropole and an old historical town. Serbian people have made some greatest contributions to science, art and culture. And finally, Belgrade is famous for its interesting night life and various types of restaurants with excellent music from jazz to folk.

We look forward to seeing you in Serbia, country of Nikola Tesla, Mihajlo Pupin, Ivo Andric, Emir Kusturica, Goran Bregovic, Novak Djokovic...

Prof. Tatjana Stosic-Opincal, MD

President of the 39th Annual Meeting of the ESNR



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THURSDAY SEPTEMBER 15TH, 2016

Meeting Room 1 – Atlantic/Pacific		Meeting Room 2 – Mediterranean/Adriatic	
09.00-10.30	<p>Brain Tumors Imaging Update Brain tumors: Update 2016 what's new Biological behavior of astrocytic tumors Pretreatment planning of glioma</p>	09.00-10.30	<p>Elementary and Advanced Imaging for Patient Selection Types of ischemic edema: cytotoxic, ionic, vasogenic, congestive. What are the differences? Clinical selection and iv thrombolysis Stroke CT in acute ischemic disease Stroke MRI in acute ischemic disease</p>
10.30-11.00	Coffee Break		
11.00-13.00	<p>From Diagnostic to Treatment SWI techniques in brain tumors Perfusion in brain tumors Oncometabolomics MR in brain glioma Posttreatment Imaging in glioma</p>	11.00-13.00	<p>Fundamentals of recanalization Clot: origin, etiology and imaging Technical basics of recanalization Studies: The big 7 New European guidelines</p>
13.00-14.00	Lunch Break		
14.00-16.00	<p>Differential Diagnostic and Beyond Extraaxial tumors MR imaging of cystic lesions of the sellar region Cystic masses Perineural tumor spread</p>	14.00-16.00	<p>Stroke at the Edge New ways in stroke management (stroke networks) Carotid stenting Intracranial stenting Subclavian and extracranial Vertebral Stenting</p>
16.00-16.30	Coffee Break		
16.30-18.30	<p>Tumors-Miscellaneous Posterior fossa tumors Pediatric brain tumors Spinal cord tumors in children and mimics Spinal bone tumors</p>	16.30-18.30	<p>Venous Infarcts and Diseases Clinical findings and Imaging of venous thrombosis Pseudotumor cerebri and venous stenting AV Fistulas: Classification and Imaging AV Fistulas: endovascular treatment concepts</p>
FRIDAY SEPTEMBER 16 TH , 2016			
Meeting Room 1 – Atlantic/Pacific		Meeting Room 2 – Mediterranean/Adriatic	
08.00-09.00	Case presentation adults	09.00-10.30	<p>Psychiatric/Neurodegenerative Disorders Imaging of Alzheimer disease Advanced MRI in psychiatric conditions and related disorders Dementia: conventional and advanced neuroimaging</p>
09.00-10.20	<p>Diagnostic Vascular I Differential diagnosis of intracerebral hemorrhage Vasculitis update Microbleeds and cortical superficial siderosis Brain involvement in systemic and endocrine disorders</p>		
10.30-11.00	Coffee Break		
11.00-12.00	<p>Diagnostic Vascular II Intracerebral bleeding imaging CT and MRI of intracranial aneurysms What is the most important in diagnosing and describing brain vascular malformations</p>	11.00-12.00	<p>Metabolic Diseases/Intoxication Vascular and Infectious Deep Gray Matter Lesions Metabolic and Degenerative Deep Gray Matter Lesions Asymmetric Deep Gray Matter Lesions</p>
12.30-13.30	Lunch Break		
14.00-16.00	<p>Opening Ceremony Honorary Membership Ceremony Awards Ceremony EDINR Ceremony</p>	14.00-16.00	Ceremonies in Meeting Room 1



16.00-16.30	Coffee Break		
16.30-18.30	Selected Oral Presentations: Diagnostic Brain 1 Diagnostic Brain	16.30-18.30	Selected Oral Presentations: Diagnostic Brain 2 Diagnostic Brain
Meeting Room 3 – Lobby floor meeting room			
09.00-10.30	<p style="text-align: center;">Interventional Session: Aneurysms Flow diverters: what are the indications in cerebral aneurysm What is the role of intrasaccular flow disruptors among other intrasaccular material? Did we change our endovascular approach in distal bifurcation aneurysms? Giant aneurysms -What is the updatate treatment?</p>		
10.30-11.00	Coffee Break		
11.00-12.00	<p style="text-align: center;">Interventional Session: AVM Impact of EVT in cerebral pial Pediatric dural AVFs: Diagnosis,treatment and follow-up Adult cerebral dural AVF: Diagnosis, treatment and follow-up</p>		
12.30-13.30	Lunch Break		
14.00-16.00	Ceremonies in Meeting Room 1		
16.00-16.30	Coffee Break		
16.30-18.30	Selected Oral Presentations: Interventional 1 2-Interventional		
SATURDAY SEPTEMBER 17th, 2016			
Meeting Room 1 – Atlantic/Pacific		Meeting Room 2 – Mediterranean/Adriatic	
08.00 - 09.00	Case presentations interventional		
09.00-10.30	<p style="text-align: center;">White Matter Diseases Multiple sclerosis: Differential diagnosis Update on diagnostic criteria in multiple sclerosis MRI biomarkers: progressing from qualitative to quantitative image assessment Quantitative MRI in Multiple Sclerosis</p>	09.00-10.30	<p style="text-align: center;">ESNR-OHBM Joint Session Optimised approach to Language lateralisation in the clinical set up Workshop fMRI Language lateralisation for dummies: examples from epilepsy</p>
10.30-11.00	Coffee Break		
11.00-12.00	<p style="text-align: center;">CNS Infections Easy approach to diagnose spinal cord infections All faces of CNS tuberculosis Brain Infections Europeans don't know about</p>	11.00-12.00	<p style="text-align: center;">Special focus: Advance Techniques ASL in Alzheimer disease fMRI: What Radiologist need to know Language lateralization: Other imaging methods</p>
12.30-13.30	Lunch Break		
14.00-15.00		14.00-15.00	<p style="text-align: center;">Diagnostic Brain Session Imaging of the neonatal brain: tips and tricks The short Neuroradiology comicbook SYMMETRY in Neuroradiology-a beauty or challenge</p>
15.00-15.30	Coffee Break		



15.30-17.10	ESNR-ESNHR Joint session Title Head and Neck Tumors Optic nerve/orbital inflammation Neoplasm affecting the skull base Tumors affecting the posterior skull base Head and Neck Malformations Advanced imaging in the head and neck When and how	15.30-17.10	ESNR Meets Serbia Serbian textbook of fetal MRI Oxidative stress markers and MRI features in the assessment of diseases activity in CIS and RR MS MRI: Imaging the future Endovascular Treatment of Middle Cerebral Artery Aneurysms Endovascular treatment of complex intracranial aneurysms
17.10-18.20	Selected Oral Presentations: Interventional 2 Interventional	17.10-18.20	Selected Oral Presentations: Head & Neck and Spine Head & Neck

Meeting Room 3 – Lobby floor meeting room

09.00-10.30	Cranial Nerve Pathologies V cranial nerve VII cranial nerve VIII cranial nerve IX-XII cranial nerves
10.30-11.00	Coffee Break
11.00-12.00	Interventional Session How can I reduce complications rate in neurointervention? Imaging and microneavigation Analysis of interventional aneurysm therapy
12.30-13.30	Lunch Break
14.00-15.00	Spine Interventional Session I Diagnostic and therapeutic approach to primary benign spine tumors Diagnostic, medical and mini invasive treatment of porotic fracture RT and medical treatment for spine mets
15.00-15.30	Coffee Break
15.30-17.30	Spine Interventional Session II Facets and sacral treatment: hot and cold EBM of disk treatment EBM of vertebral cementoplasty Percutaneous treatment of spine mets
17.30-18.35	Selected Oral Presentations: Pediatric Pediatrisk

SUNDAY SEPTEMBER 18th, 2016

Meeting Room 1 – Atlantic/Pacific		Meeting Room 2 – Mediterranean/Adriatic	
08:00 - 09:00	Case presentation spine		
09.00-10.30	Pediatric Session: ESNR-ASPNR Joint session Genetics in metabolic disorders Clinical features and imaging findings of inborn errors in metabolism in neonates Clinical features and imaging findings of inborn errors in metabolism in childhood Metabolic disorders: quiz Child abuse imaging	09.00-10.30	Spine Diagnostic Session Sagittal balance and biomechanics of the spine Dynamic evaluation of the spine Tractography of the spinal cord: clinical application Diagnostic spine evaluation and follow up in hematologic disorders
10.30-11.00			Coffee Break
11.00-12.20	Pediatric Session Cerebellar vulnerability in prematures Overview of neonatal encephalopathies Congenital and neonatal infections Congenital and neonate tumors	11.00-12.15	Selected Oral Presentations: Diagnostic 3 Diagnostic
12.30-12.45			Closing Ceremony
12.45-13.45			ESNR General Assembly

FACULTY LIST

- | | | | |
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SCIENTIFIC PROGRAM

THURSDAY, SEPTEMBER 15th 2016

"ADVANCED DIAGNOSTIC COURSE TUMOR IMAGING"

Meeting Room 1 – Atlantic/Pacific

Brain Tumors Imaging Update / Moderators: Tatjana Stosic-Opincal, Majda Thurnher

- 09:00 - 09:30 Brain tumors: Update 2016 what's new **Majda Thurnher, Austria**
09:30 - 10:00 Biological behavior of astrocytic tumors **Sebastian Brandner, UK**
10:00 - 10:30 Pretreatment planning of glioma **Tatjana Stosic-Opincal, Serbia**
10:30 - 11:00 Coffee Break

From Diagnostic to Treatment / Moderators: Pia Sundgren, Rolf Jager

- 11:00 - 11:30 SWI techniques in brain tumors **Roberto Gasparotti, Italy**
11:30 - 12:00 Perfusion in brain tumors **Rolf Jager, UK**
12:00 - 12:30 Oncometabolomics MR in brain glioma **Alberto Beltramello, Italy**
12:30 - 13:00 Posttreatment Imaging in glioma **Pia Sundgren, Sweden**
13:00 - 14:00 Lunch break

Differential Diagnostic and Beyond / Moderators: Athanasios Gouliamos, Jan Casselman

- 14:00 - 14:30 Extraaxial tumors **Zulejha Merhemic, Bosnia and Herzegovina**
14:30 - 15:00 MR imaging of cystic lesions of the sellar region **Fabrice Bonneville, France**
15:00 - 15:30 Cystic masses **Alexandre Krainik, France**
15:30 - 16:00 Perineural tumor spread **Jan Casselman, Belgium**
16:00 - 16:30 Coffee break

Tumors-Miscellaneous / Moderators: Andrea Rossi, Katarina Koprivsek

- 16:30 - 17:00 Posterior fossa tumors **Friedhelm Zanella, Germany**
17:00 - 17:30 Pediatric brain tumors **Chen Hoffmann, Israel**
17:30 - 18:00 Spinal cord tumors in children and mimics **Andrea Rossi, Italy**
18:00 - 18:30 Spinal bone tumors **Luc van den Hauwe, Belgium**



"ADVANCED COURSE UPDATE ON STROKE MANAGEMENT "

Meeting Room 2 – Mediterranean/Adriatic

Elementary and Advanced Imaging for Patient Selection / Moderators: Rudiger von Kummer,

09:00 - 09:20 Types of ischemic edema: cytotoxic, ionic, vasogenic, congestive. What are the differences?

Rüdiger von Kummer, Germany

09:20 - 09:40 Clinical selection and iv thrombolysis **Urs Fischer, Switzerland**

09:40 - 10:00 Stroke CT in acute ischemic disease **Maria Luisa Bischoito, Portugal**

10:00 - 10:20 Stroke MRI in acute ischemic disease **Pasquale Mordasini, Switzerland**

10:20 - 11:00 Coffee Break

Fundamentals of recanalization / Moderators: Marko Rados, Tomaz Seruga

11:00 - 11:30 Clot: origin, etiology and imaging **Christian Riedel, Germany**

11:30 - 12:00 Technical basics of recanalization **Alain Bonafe, France**

12:00 - 12:30 Studies: The big 7 **Wilhelm van Zwam, Netherland**

12:30 - 13:00 New European guidelines **Jens Fiehler, Germany**

12:30 - 13:30 Lunch Break

Stroke at the Edge / Moderators: Olav Jansen, Istvan Szikora

14:00 - 14:30 New ways in stroke management (stroke networks) **Urs Fischer, Switzerland**

14:30 - 15:00 Carotid stenting **Olav Jansen, Germany**

15:00 - 15:30 Intracranial stenting **Istvan Szikora, Hungary**

15:30 - 16:00 Subclavian and extracranial Vertebral Stenting **Klaus Hausegger, Austria**

16:00 - 16:30 Coffee Break

Venous Infarcts and Diseases / Moderators: Pedro Vilela, Ivan Vukasinovic

16:30 - 16:50 Clinical findings and Imaging of venous thrombosis **Pedro Vilela, Portugal**

16:50 - 17:20 Pseudotumor cerebri and venous stenting **Pasquale Mordasini, Switzerland**

17:20 - 17:40 AV Fistulas: Classification and Imaging **Christoph Cognard, France**

17:40 - 18:00 AV Fistulas: endovascular treatment concepts **Rene Chapot, Germany**



FRIDAY SEPTEMBER 16th, 2016

Meeting Room 1 – Atlantic / Pacific

08:00 - 09:00 Case presentation adults **Majda Thurnher**

Diagnostic Vascular I / Moderators: Pia Sundgren, Paulina Due - Tonnessen

09:00 - 09:20 Differential diagnosis of intracerebral hemorrhage **Paulina Due - Tonnessen, Norway**

09:20 - 09:40 Vasculitis update **Pia Sundgren, Sweden**

09:40 - 10:00 Microbleeds and cortical superficial siderosis **Rolf Jager, UK**

10:00 - 10:20 Brain involvement in systemic and endocrine disorders **Beatriz Gomez Anson, Spain**

10:30 - 11:00 Coffee Break

Diagnostic Vascular II / Moderators: Naci Kocer, Svetlana Milosevic-Medenica

11:00 - 11:20 Intracerebral bleeding imaging **Karl Olof Lovblad, Switzerland**

11:20 - 11:40 CT and MRI of intracranial aneurysms **Igor Pronin, Russia**

11:40 - 12:00 What is the most important in diagnosing and describing brain vascular malformations **Naci Kocer, Turkey**

12:30 - 13:30 Lunch Break

12:00 - 12:50 Industry - Sponsored Symposium

13:10 - 14:00 Industry - Sponsored Symposium

14:00 - 14:30 Opening Ceremony

14:30 - 14:50 Honorary Membership Ceremony

14:50 - 15:30 Awards Ceremony

15:30 - 16:00 EDINR Ceremony

16:00 - 16:30 Coffee Break

Parallel Scientific Sessions

16:30 - 18:30 Selected Oral Presentations: Diagnostic Brain 1

1-Diagnostic Brain/ Moderators: Fabrice Bonneville, Marija Jovanovic

1-0.1 : Comparison of three different Perfusion CT Software to Predict the Final Infarct after Thrombectomy **Monika Huhndorf**



1-0.2 : ASL-based Non-contrast MRDSA with 3D Data Acquisition: Initial Clinical Experience in Intracranial Major Trunk Stenooclusive Diseases

Kazuhiro Tsuchiya

1-0.3 : Glioma MR Imaging Practices in Europe: Results from the European Society for Neuroradiology (ESNR) Diagnostic Subcommittee Survey on Glioma Imaging

Steffi Thust

1-0.4 : Gadolinium deposition in the brain: 10 years' experience with double dose administration of GBCAs - using a generalized additive model with R

Yae-Won Park

1-0.5 : White matter load and brain atrophy in SLE patients: correlation to cognitive impairment

Björn Cannerfelt

1-0.6 : Cognition at baseline before radiotherapy with Temozolomide predict response to treatment in malignant glioma as measured by parametric response maps (PRM)

Pia Sundgren

1-0.7 : Influence of cognitive impairment and depression on the cortical trophism of patients with multiple sclerosis

Emanuele Pravata

1-0.8 : Texture analysis features reveal selective vulnerability of thalamic nuclei in mice after hypoxic-ischemic injury

Matthias W. Wagner

1-0.9 : Evaluation of T2 Signal Intensity of GH-secreting Pituitary Macroadenoma in Treatment-Naïve Acromegalic Patients Receiving Primary Treatment with Lanreotide Autogel (LAN-ATG) 120 mg

Fabrice Bonneville

1-0.10 : Presence of central veins and susceptibility weighted imaging for evaluating lesions in multiple sclerosis and leukoaraiosis

Urka Lamot

1-0.11 : Amplitude of low-frequency fluctuations in association with anxiety and depression in subjects with multiple sclerosis: a resting-state fMRI study

Briggith Beltrán

Meeting Room 2 – Mediterranean /Adriatic

Psychiatric/Neurodegenerative Disorders / Moderators: Dusko Kozic, Vasilis Katsaros

09:00 - 09:30	Imaging of Alzheimer disease Dusko Kozic, Serbia,
09:30 - 10:00	Advanced MRI in psychiatric conditions and related disorders Vasilis Katsaros Greece
10:00 -10:30	Dementia: conventional and advanced neuroimaging Efrosini Papadaki, Greece
10:30 - 11:00	Coffee Break

Metabolic Diseases/Intoxication / Moderators: Dorith Goldsher, Zoran Rumboldt

11:00 - 11:20	Vascular and Infectious Deep Gray Matter Lesions Zoran Rumboldt, Croatia
11:20 - 11:40	Metabolic and Degenerative Deep Gray Matter Lesions Hrvoje Vavro, Croatia
11:40 - 12:00	Asymmetric Deep Gray Matter Lesions Zoran Rumboldt, Croatia
12:30 - 13:30	Lunch Break

Ceremonies in Meeting Room 1

16:00 - 16:30	Coffee Break
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Parallel Scientific Sessions

16:30 - 18:00	Selected Oral Presentations: Diagnostic Brain 2
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1-Diagnostic Brain / Moderators: Alex Rovira, Katarina Kacar

1-0.12 : Correlation between brain volume change and T2 relaxation time in patients with clinically isolated syndrome

Alex Rovira

1-0.13 : Safety and diagnostic efficacy of gadoteric acid in magnetic resonance imaging (MRI) of the central nervous system (CNS)

Alex Förster

1-0.14 : The visual evaluation of nigrosome-1 on 3T susceptibility-weighted imaging may improve diagnostic performance in the patients with Lewy body disease without abnormal findings on 123I-MIBG scintigraphy or 99mTc-ECD SPECT

Tomoya Nakatsuka

1-0.15 : Brain microstructural changes in patients with pseudoexfoliation syndrome: a tract-based spatial statistics diffusion tensor imaging study.

Anastasia Zikou



1-0.16 : Incomplete hippocampal inversion in patients with focal epilepsy without known etiology and focal MRI abnormalities

Raili Raininko

1-0.17 : Treatment effect by advanced MR imaging in adult glioblastoma patients including analysis of regional diffusion variations

Anna Rydelius

1-0.18 : Infratentorial superficial siderosis: clinical and radiological spectrum, causes, diagnostic criteria and rational investigation pathway based on an observational case series of 64 patients

Peter Cowley

1-0.19 : Diffusion tensor imaging with tract-based spatial statistics reveals widespread microstructural alterations in aspartylglucosaminuria

Anna Tokola

1-0.20 : A Voxel-based morphometry study in diabetes mellitus type II compared to healthy controls. Preliminary results of the PRECISED study.

Alex Rovira

1-0.21 : Redefining the pulvinar sign in fabry's disease: a quantitative mr study

Sirio Coccozza

1-0.22 : Improved Detection Rate of Hyperacute Infarction Using Brain CT with Color Look-Up-Table

Kuei-Hong Kuo

Meeting Room 3 – Lobby floor meeting room

Interventional Session: Aneurysms / Moderators: Saruhan Cekirge, Rene Chapot

09:00 - 09:20	Flow diverters: what are the indications in cerebral aneurysm Saruhan Cekirge, Turkey
09:20 - 09:40	What is the role of intrasaccular flow disruptors among other intrasaccular material ? Laurent Pierot, France
09:40 - 10:00	Did we change our endovascular approach in distal bifurcation aneurysms? Rene Chapot, Germany
10:00 - 10:20	Giant aneurysms - What is the uptodate treatment? Naci Kocer, Turkey
10:30 - 11:00	Coffee Break

Interventional Session: AVM / Moderators: Isil Saatci, Gyula Gal

11:00 - 11:20	Impact of EVT in cerebral pial AVM Isil Saatci, Turkey
11:20 - 11:40	Pediatric dural AVFs: Diagnosis, treatment and follow-up Laurent Spelle, France
11:40 - 12:00	Adult cerebral dural AVF: Diagnostis, treatment and follow-up Gyula Gal, Denmark
12:30 - 13:30	Lunch Break

Ceremonies in Meeting Room 1

16:00 - 16:30	Coffee Break
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Parallel scientific sessions

16:30 - 18:00	Selected Oral Presentations: Interventional 1
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2-Interventional/ Moderators: Naci Kocer, Nikola Boban

2-0.1: Utility of Transbrachial Coil Embolization of Cerebral Aneurysms in the Anterior Cerebral Circulation

Takahisa Mori

2-0.2: Long-Term Outcome of Percutaneous Alcohol Embolization Combined with Percutaneous Vertebroplasty in Aggressive Vertebral Hemangiomas with Epidural Extension

Kévin Premat

2-0.3: Safety and efficacy of antiplatelet response assay and drug adjustment in coil embolization: A propensity score analysis

Min Soo Kim

2-0.4: Inherited transmission of an anatomic conformation favoring aneurismal formation of the anterior communicating artery?

Cédric Lenoble

2-0.5: Endovascular treatment of acute internal carotid artery dissections: technical considerations, clinical and angiographic outcome

Wiebke Kurre

2-0.6: Transvenous coil embolization of cavernous sinus dural arteriovenous fistula on a revised classification

Chao-Bao Luo



2-0.7 : Development of microporous covered stent for the treatment of intracranial aneurysms (NCVC-CS1): its functional features and commencement of investor-initiated clinical trial.

Tetsu Satow

2-0.8 : Preinterventional i.v.-rtpa in middle cerebral artery treated with thrombectomy: a double-edged sword?

Johannes Kaesmacher

2-0.9 : Correlation of long term clinical outcome with the degree of collateral circulation in stroke patients treated with stent retrievers – Are there indications not to perform thrombectomy based on CT angiography?

Hannes Nordmeyer

2-0.10 : Efficacy of deconstructive method for ruptured vertebral artery dissecting aneurysms

Yoji Orita

SATURDAY SEPTEMBER 17th, 2016

Meeting Room 1 – Atlantic / Pacific

08:00 - 09:00 Case presentations interventional **Civan Islak/ Naci Kocer**

White Matter Diseases / Moderators: Alex Rovira, Dusan Damjanovic

09:00 - 09:20 Multiple sclerosis: Differential diagnosis **Alex Rovira, Spain**

09:20 - 09:40 Update on diagnostic criteria in multiple sclerosis **Cristina Auger, Spain**

09:40 - 10:00 MRI biomarkers: progressing from qualitative to quantitative image assessment
Paul Parizel, Belgium

10:00 - 10:20 Quantitative MRI in Multiple Sclerosis **Tarek Yousry, UK**

10:20 - 11:00 Coffee Break

CNS Infections Title / Moderators: Turgut Tali, Ivan Nikolic

11:00 - 11:20 Easy approach to diagnose spinal cord infections **Turgut Tali, Turkey**

11:20 - 11:40 All faces of CNS tuberculosis **Charles Romanowski, UK**

11:40 - 12:00 Brain Infections Europeans don't know about **Leonardo Macedo, Brazil**

12:30 - 13:30 Lunch Break

12:00 - 12:50 Industry - Sponsored Symposium

15:00 - 15:30 Coffee Break

ESNR-ESNHR Joint session Title Head and Neck Tumors / Moderator: Sotirios Bisdas, Sladjana Petrovic

15:30 - 15:50	Optic nerve/orbital inflammation Katarina Surlan Popovic, Slovenia
15:55 - 16:20	Tumors affecting the posterior skull base Christian Czerny, Austria
16:20 - 16:45	Congenital Cystic Masses of The Neck Athanasios Gouliamos, Greece
16:45 - 17:10	Advanced imaging in the head and neck When and how Sotirios Bisdas, UK

Parallel Scientific Sessions

17:10 - 18:20 Selected Oral Presentations: Interventional 2

2-Interventional / Moderators: Naci Kocer, Biljana Georgijevski-Brkic

2-0.11 : Endovascular treatment of acute basilar artery occlusion: RELOBA study Group experience.
Francesco Biraschi

2-0.12 : Endovascular Treatment of Intracranial Aneurysms Using Acandis Acclino Stents: Mid- and Longterm Results
Friedhelm Brassel

2-0.13 : Treatment of ruptured blister aneurysms with flow-diverters: a single centre experience
Chiara Gaudino

2-0.14 : CT Perfusion (CTP) for early detection of vascular complications after Subarachnoid Hemorrhage (SH) due to aneurysm rupture.
Edoardo Puglielli

2-0.15 : Carotid body tumours-CBT endovascular embolisation using onyx : single centre experience
Ossama Mansour

2-0.16 : 3-D computational fluid dynamics during mechanical aspiration thrombectomy in acute ischemic stroke
Cecilia Haydee Corzo

2-0.17 : SVS: inter MRI manfacters agreement, inter and intra observers agreement, histo-MR correlation
Détraz Lili

2-0.18 : Non-saccular aneurysms of the posterior inferior cerebellar artery: review of a single center series.
Frederic Clarençon



Meeting Room 2 – Mediterranean / Adriatic

ESNR-OHBM Joint Session / Moderator: Nuria Bargallo

- 09:00 - 09:30 Optimised approach to Language lateralisation in the clinical set up
Susan Bookheimer, USA
- 09:30 - 10:40 Diagnostic Committee Epilepsy Working Group Workshop fMRI Language lateralisation for dummies: examples from epilepsy
Paolo Vitali, Cristina Rosazza, Susan Bookheimer
- 10:40 - 11:00 Coffee Break

Special focus: Advance Techniques / Moderator: Kazuhiro Tsuchiya

- 11:00 - 11:20 ASL in Alzheimer disease **Marion Smits, Netherlands**
- 11:20 - 11:40 fMRI: What Radiologists need to know **Cem Calli, Turkey**
- 11:40 - 12:00 Language lateralization: Other imaging methods **Sven Haller, Switzerland**
- 12:30 - 13:30 Lunch Break

Diagnostic Brain Session / Moderator: Dorit Goldsher

- 14:00 - 14:20 Imaging of the neonatal brain: tips and tricks **Maria Argyropoulou, Greece**
- 14:20 - 14:40 The short Neuroradiology comicbook **Martina Spero, Croatia**
- 14:40 - 15:00 SYMMETRY in Neuroradiology-a beauty or challenge **Dora Zlatareva, Bulgaria**
- 15:00 - 15:30 Coffee Break

ESNR Meets Serbia / Moderators: Ljubo Markovic, Slobodan Cirkovic

- 15:30 - 15:50 Serbian textbook of fetal MRI **Katarina Koprivsek, Serbia**
- 15:50 - 16:10 Oxidative stress markers and MRI features in the assessment of diseases activity in CIS and RR MS **Dragan Stojanov, Serbia**
- 16:10 - 16:30 MRI: Imaging the future **Milos Lucic, Serbia**
- 16:30 - 16:50 Endovascular Treatment of Middle Cerebral Artery Aneurysms
Svetlana Milosevic-Medenica, Serbia
- 16:50 - 17:10 Endovascular treatment of complex intracranial aneurysms **Ivan Vukasinovic Serbia**
- Parallel Scientific Sessions
- 17:10 - 18:30 Selected Oral Presentations: Head & Neck and Spine

3-Head & Neck/ Moderators: Zanka Cerovic, Katarina Surlan

3-0.1 : Comparison of contrast and non contrast 3DTOF MR angiography in detecting clinically significant stenosis of ICA(internal carotid artery)

Edin Avdagic

3-0.2 : Use of apparent diffusion coefficients to predict outcome of vestibular schwannomas following Gamma Knife radiosurgery

Chih-Chun Wu

3-0.3 : Plaque morphology and clinical features of symptomatic internal carotid artery stenosis with non-high intensity signal of T1 weighted magnetic resonance image

Megumu Takata

3-0.4 : The role of imaging in perineural tumoral spread detection

Sladjana Petrovic

4-Spine/ Moderator:Turgut Tali, Milos Lucic

4-0.1 : Craniovertebral junction congenital and acquired anomalies

Gulgun Yilmaz Ovali

4-0.2 : Integration of Phase Sensitive-Inversion Recovery (PSIR) and Diffusional Kurtosis Imaging (DKI) sequences of the spinal cord

Valentina Panara

4-0.3 : Imaging of peripheral nerve pathology

Daliborka Marić

4-0.4 : Feasibility of Synthetic MRI for the spine

Maria Isabel Vargas

4-0.5 : Imaging of Spine Fusion: Post Surgery Complications

Eduardo Bravo

4-0.6 : The Value of Axial Loading in MRI of Lumbar Spine

Deniz Bulja

Meeting Room 3 – Lobby floor meeting room

Head & Neck Session

Cranial Nerve Pathologies / Moderators: Bernhard Schuknecht,

09:00 - 09:20

V cranial nerve **Teresa Nunes, Portugal**

09:20 - 09:40

VII cranial nerve **Berit Verbist, Netherlands**

09:40 - 10:00

VIII cranial nerve **Bernhard Schuknecht, Switzerland**

10:00 - 10:20

IX-XII cranial nerves **Agnieszka Trojanowska, Poland**

10:20 - 11:00

Coffee Break



Interventional Session/ Moderator: Civan Islak, Dragan Stojanov

- 11:00 - 11:20 How can I reduce complications rate in neurointervention? **Civan Islak, Turkey**
11:20 - 11:40 Imaging and micromanipulation **Staffan Holmin, Sweden**
11:40 - 12:00 Analysis of interventional aneurysm therapy **Marco Leonardi, Italy**
- 12:30 - 13:30 Lunch Break

Spine Interventional Session I / Moderator: Stefano Marcia

- 14:00 - 14:20 Diagnostic and therapeutic approach to primary benign spine tumors **Alessandro Cianfoni, Switzerland**
14:20 - 14:40 Diagnostic, medical and mini invasive treatment of porotic fracture **Peter Cowley, UK**
14:40 - 15:00 RT and medical treatment for spine mets **Marina Nikitovic, Serbia**
- 15:00 - 15:30 Coffee Break

Spine Interventional Session II / Moderator: Simonetta Gerevini

- 15:30 - 16:00 Facets and sacral treatment: hot and cold **Mario Muto, Italy**
16:00 - 16:30 EBM of disk treatment **Joshua Hirsch, USA**
16:30 - 17:00 EBM of vertebral cementoplasty **Stefano Marcia, Italy**
17:00 - 17:30 Percutaneous treatment of spine mets **Alan Brook, USA**

Parallel Scientific Sessions

- 17:30 - 18:35 Selected Oral Presentations: Pediatric

5-Pediatric/ Moderators: Andrea Rossi, Katarina Koprivsek

5-0.1 : Post-mortem High Resolution (HR) magnetic resonance imaging (MRI) in fetuses with brain abnormalities and confirmation of in utero MRI findings

Elisa Scola

5-0.2 : Pediatric multiple sclerosis - magnetic resonance in children under the age of 11.

Elżbieta Jurkiewicz

5-0.3 : MRI findings after surgery for congenital heart disease: insight from brain imaging

ARANTXA ROYO

5-0.4 : A practical clinical and imaging approach to pediatric neck masses

Yeliz Pekcevik



5-0.5 : Mapping the fetal brain connectome with high angular resolution diffusion tensor imaging

Andras Jakab

5-0.6 : Dural Arteriovenous Fistulas in children with Vein of Galen Malformation – The role of treatment timing and embolic material

Dan Meila

5-0.7 : Altered BOLD Signal Following Mirror Therapy on task-based fMRI in Children with Hemiparetic Spastic Cerebral Palsy

Arzu Ceylan Has

SUNDAY, SEPTEMBER 18th, 2016

Meeting Room 1 – Atlantic /Pacific

08:00 - 09:00 Case presentation spine **Johan Van Goethem, Luigi Manfre**

Pediatric Session: ESNR-ASPNR Joint session / Moderator: Pia Sundgren

09:00 - 09:20 Genetics in metabolic disorders **Zoltan Patay, USA**

09:20 - 09:40 maging strategy for evaluation of metabolic diseases **Birgit Ertl-Wagner, Germany**

09:40 - 10:00 Clinical features and imaging findings of inborn errors in metabolism in childhood
Susan Palasis, USA

10:00 - 10:20 Metabolic disorders: quiz **Bard Nedregaard, Norway**

10:20 - 10:40 Child abuse imaging **Giulio Zuccoli, USA**

10:40 - 11:00 Coffee Break

Pediatric Session/ Moderators: Nadine Girard, Tracy Kilborn

11:00 - 11:20 Cerebellar vulnerability in prematures **Andrea Rossi, Italy**

11:20 - 11:40 Overview of neonatal encephalopathies **Linda Meiners, Netherlands**

11:40 - 12:00 Congenital and neonatal infections **Tracy Kilborn, South Africa**

12:00 - 12:20 Congenital and neonate tumors **Nadine Girard, France**

Meeting Room 2 – Mediterranean /Adriatic

Spine Diagnostic Session / Moderators: Luc Van Den Hauwe, Marek Sasiadek

09:00 - 09:20 Sagittal balance and biomechanics of the spine **Johan van Goethem, Belgium**

09:20 - 09:40 Dynamic evaluation of the spine **Mario Muto Italy**

09:40 - 10:00 Tractography of the spinal cord: clinical application **Marek Sasiadek, Poland**



10:00 - 10:20 Diagnostic spine evaluation and follow up in hematologic disorders
Marc-Andre Weber, Germany

10:20 - 11:00 Coffee Break

Parallel Scientific Sessions

11:00 - 12:15 Selected Oral Presentations: Diagnostic 3

1-Diagnostic/ Moderators: Zulejha Merhemic, Brankica Vasic

1-0.23 : Mystery of polymicrogyria

Biljana Vukomancic

1-0.24 : Postcontrast STIR Imaging of Intracranial Disease Processes – a Pilot Study

Antonija Ruzic Barsic

1-0.25 : Evaluation of changes in the selected white matter tracts in HCV-infected patients using diffusion tensor imaging before and after new interferon-free therapy.

Joanna Bladowska

1-0.26 : Diagnostic Value of Longitudinal Computer-assisted 3D-volumetry in Follow-up MRI of Glioblastoma

Georgina Alber

1-0.27 : Anorexia nervosa and MP2RAGE

Maria Isabel Vargas

1-0.28 : Intraoperative resting-state fMRI for lesions related to the sensorimotor area: Technical implementation and preliminary results

Ayisha Al Busaidi

1-0.29 : Graph theory analysis of single subject gray-matter structure in malformations of cortical development (MCDs) - a novel approach for diagnostic workup

Lajos Rudolf Kozák

1-0.30 : McDonald Criteria 2016 revision: Case based MRI evaluation in patients with Clinically Isolated Syndrome

Utku Senol

12:30 - 12:45 Closing ceremony

12:45 - 13:45 ESNR General Assembly

POSTER ABSTRACTS

1 - Diagnostic Brain

1-P.01 - Crotid-anterior cerebral artery anastomosis diagnosed by mr angiography Akira Uchino¹, Naoko Saito¹
Saitama Medical University International Medical Center Diagnostic Radiology Hidaka-Japan ¹

1-P.02 - Microhemorrhages in the corpus callosum as the distinctive anoxic brain injury Dong Woo Park ¹,
Tae Yoon Kim ² Hanyang University Guri Hospital Radiology Guri-Korea, South ¹

1-P.03 - Paraneoplastic limbic encephalitis, an uncommon presentation of breast cancer: case report and discussion

Yon-Kwon Ihn¹, Won-Sang Jung¹, Min Kyung Jung¹ St.Vincent's hospital Radiology Suwon-Korea, South¹

1-P.04 - Correlation of cerebrovascular reserve assessed by acetazolamide-stress SPECT with collaterals on arterial spin-labeling MRI in patients with carotid occlusive disease

Hyunkoo Kang¹ Seoul Veterans Hospital Department of Radiology Seoul-Korea, South¹

1-P.05 - Arterial spin labeling in acute seizure

Mathieu Schertz¹, Samia Belkacem¹, Nadya Pyatigorskaya¹, Baronnet Flore², Dormont Didier², Delphine Leclercq¹, Bruno Law-ye¹ APHP - Hospital Pitié-Salpêtrière Neuroradiology Paris-France¹ APHP - Hospital Pitié-Salpêtrière Neurology Paris-France²

1-P.06 - Intracranial cysts and focal epilepsy: hospital based case control study Ivan Nikolic¹, Aleksandar Ristic², Dusan Damjanovic³, Marija Jovanovic¹, Kristina Davidovic³, Marko Dakovic⁴, Ruzica Maksimovic³, Dragoslav Sokic²
Clinical Center of Serbia, Center for Radiology and MRI, Belgrade-Serbia¹ Clinical Center of Serbia, School of Medicine, University of Belgrade, Center for Epilepsy and Sleep Disorders, Neurology Clinic, Belgrade-Serbia² Clinical Center of Serbia, School of Medicine, University of Belgrade, Center for Radiology and MRI, Belgrade-Serbia³ Faculty of Physical Chemistry, University of Belgrade, Belgrade-Serbia⁴

1-P.07 -Predictive mofological parameters for bleeding of brain arteriovenous malformations by multidetector ct angiography Biljana Milatovic¹, Svetlana Milosevic Medenica¹, Goran Tasic², Igor Nikolic² Clinical center of Serbia radiology Belgrade-Serbia² Clinical center of Serbia neurosurgery Belgrade-Serbia¹

1-P.08 - Differentiation of glioblastoma multiforme and single brain metastasis by the distribution pattern of intratumoral susceptibility sign derived from susceptibility-weighted imaging

Hyunkoo Kang¹, Keuntak Roh¹ Seoul Veterans Hospital Department of Radiology Seoul-Korea, South¹

1-P.09 - Uremic Encephalopathy: MR Imaging findings and Clinical Correlation Chang June Song¹, Dami Kim¹, Inho Lee¹, Inkyu Yoo² Chungnam National University Hospital Radiology Daejeon-Korea, South¹ Eulji University Hospital Radiology Daejeon-Korea, South²



1-P.10 - Prognostic value of preoperative dynamic contrast-enhanced MRI perfusion parameters for high-grade glioma patients Vasileios K. Katsaros ¹, Agne Ulyte ², Evangelia Liouta ³, George Stranjalis ⁴, Christos Boskos ⁵, Nickolas Papanikolaou ⁶, Jurgita Usinskiene ⁷, Sotirios Bisdas ⁸ University of Athens MRI - Neuroradiology Pikermi-Rafina-Greece ¹ Vilnius University Faculty of Medicine Vilnius-Lithuania ² University of Athens Neuropsychology Athens-Greece ³ University of Athens Neurosurgery Athens-Greece ⁴ University of Athens Radiation Oncology Athens-Greece ⁵ Center for the Unknown, Champalimaud Biomedical Engineering Lisbon-Portugal ⁶ National Cancer Institute Radiology Vilnius-Lithuania ⁷ National Hospital for Neurology and Neurosurgery, University College London Hospitals Neuroradiology London-United Kingdom ⁸

1-P.11 - Impact of age and gender on basilar artery size Filip Vitosevic ¹, Milica Kovacevic ¹, Svetlana Milosevic-Medunica ¹ Clinical Center of Serbia Center for Radiology and MRI Belgrade-Serbia ¹

1-P.12 - 4D Imaging of Intracranial Tumors at 1.5 T and 3.0 T Andrea Bink ¹, Christoph Stippich ¹ Neuroradiology University Hospital Basel Basel-Switzerland ¹

1-P.13 - Risk factors and characteristics of the ulcerated carotid plaque Loraine Fisch ¹, Dana Niry ², Rolf Jager ², Martin Brown ¹ National Hospital for Neurology and Neurosurgery Neurology London-United Kingdom ¹ National Hospital for Neurology and Neurosurgery Neuroradiology London-United Kingdom ²

1-P.14 - Does Systemic Lupus Erythematosus (SLE) cause chronic, progressive alteration of functional connectivity in intra-cerebral networks? A Resting state fMRI-study. Jessika Nystedt ¹, Pia C Sundgren ¹, Andreas Jönsen ², Petra Nilsson ³, Åsa Lilja ⁴, Peter Mannfolk ⁵, Olof Strandberg ⁶ Division of Clinical Radiology Department of Clinical Sciences Lund-Sweden ¹ Division of Rheumatology Department of Clinical Sciences Lund-Sweden ² Division of Neurology Department of Clinical Sciences Lund-Sweden ³ Center for primary Health Care Department of Clinical Sciences Lund-Sweden ⁴ Institution Clinical Imaging and Physiology Department of Clinical Sciences Lund-Sweden ⁵ Clinical Memory Research Unit Department of Clinical Sciences Lund-Sweden ⁶

1-P.15 - The natural course of spontaneous intracerebral hemorrhage in basal ganglia – the analysis of a series of 39 patients Aleksandra Milosevic ¹, Goran Tasic ², Mileusnic Valentina ³, Katarina Kacar ¹ Special Hospital "Sveti Sava" Radiology Belgrade-Serbia ¹ Clinical Center of Serbia Neurosurgery Belgrade-Serbia ² Special Hospital "Sveti Sava" Neurology Belgrade-Serbia ³

1-P.16 - Local Network Impairment in Asymptomatic Young AIDS Patients with Normal Brain MRI: Diffusion Tensor Imaging Connectome Analysis Snag-Hoon Cha ¹, Chi-Hoon Choi ², Kyung Sik Yi ² College of Medicine, Chungbuk National University Radiology Cheong-ju-Korea, South ¹ Chungbuk National University Hospital Radiology Cheong-ju-Korea, South ²

1-P.17 - Magnetic Resonance Imaging Findings of the Brain Related to Intravenous Administration of Ferumoxytol. Norbert Campeau ¹, Gary Miller ¹ Mayo Clinic Radiology Rochester-United States ¹

1-P-18 - Spontaneously thrombosed giant serpentine aneurysm in a patient with osteogenesis imperfecta

Alja Longo ¹, Tina Vipotnik Vesnaver ² University Medical Centre Ljubljana Clinical Institute of Radiology Ljubljana-Slovenia¹ University Medical Centre Clinical Institute of Radiology Ljubljana-Slovenia²

1-P-19 - A case of neurosarcooidosis Annapaola Bocchio¹, Davide Machado¹, Rosset Massimo¹, Meloni Teodoro¹ Regional Hospital Valle d Radiology aosta-Italy¹

1-P-20 - DTI: Assessment of diffuse axonal injury in moderate and severe traumatic brain injury Amaya Hilario¹, Ana Maria Castaño ², Elena Salvador ¹, Laura Koren ¹, Patricia Martin ¹, Alfonso Lagares ², Ana Ramos ¹ University Hospital 12 de Octubre Radiology Madrid-Spain ¹ University Hospital 12 de Octubre Neurosurgery Madrid-Spain ²

1-P-21 - How to suspect Cerebral Amyloidosis Ana Ramos ¹, Amaya Hilario ¹, Elena Salvador ¹, Laura Koren ¹, Patricia Martin ¹, Federico Ballenilla ¹ Hospital 12 de Octubre Radiology Madrid-Spain ¹

1-P-22 - How to approach cns infections in the compromised host Laura Koren¹, Elena Salvador ¹, Amaya Hilario ¹, Patricia Martin ¹, Federico Ballenilla ¹, Jose Maria Millan ¹, Ana Ramos ¹ Hospital 12 de Octubre Radiology Madrid-Spain ¹

1-P-23 - TECHNIQUES IN MR ANGIOGRAPHY OF THE BRAIN: WHAT TO DO WITH THEM Patricia Martin ¹, Amaya Hilario¹, Elena Salvador ¹, Laura Koren ¹, Federico Ballenilla ¹, Ana Ramos ¹ Hospital 12 de Octubre Radiology Madrid-Spain¹

1-P-24 - Late ferumoxytol enhancement aids the differentiation between meningiomas and metastases. Laszlo Szidonya ¹, Csanad Varallyay ², Bronwyn Hamilton ², Prakash Ambady ¹, Edward Neuwelt ¹ Oregon Health and Science University Dept. of Neurology, Blood-Brain Barrier and Neuro-Oncology Program Portland-United States¹ Oregon Health and Science University Dept. of Diagnostic Radiology Portland-United States ²

1-P-25 - Traumatic peritentorial subdural hematomas – meaning and significance of CT findings Jelena Kostic ¹, Irena Kostic ², Ana Stankovic ¹, Kristina Davidovic ¹, Faris Crnovrsanin ¹, Danilo Stankovic ¹, Ruzica Maksimovic ³ Clinical Center of Serbia Emergency department Belgrade-Serbia ¹ University of Kragujevac Department for Pathophysiology Kragujevac-Serbia ² Clinical Center of Serbia Center for radiology and MRI Belgrade-Serbia ³

1-P-26 - Assessment the utility of three-dimensional printed cerebral aneurysm model in neck clipping operation Toshi Abe ¹, Ayako Yoshida ¹, Shuji Nagata ¹, Yusuke Uchiyama ¹, Takachika Aoki ², Reiji Katayama ³, Norimitsu Tanaka ¹ Kurume University School of Medicine Department of Radiology Kurume-Japan ¹ Kurume University School of Medicine Department of Neurosurgery Kurume-Japan ² Kurume University Hospital Center for Diagnostic Imaging Kurume-Japan ³

1-P-27 - Optimized visualization of early cerebral infarcts after endovascular stroke therapy with dual-energy computed tomography Tanja Djurdjevic ¹, Thomas Schiestl ¹, Florian Dazinger ¹, Bernhard Glodny ², Rafael Rehwald ² Michael Knoflach ³, Elke Ruth Gizewski ¹, Astrid Ellen Grams ¹ Medical University of Innsbruck Department of



Neuroradiology Innsbruck-Austria ¹ Medical University of Innsbruck Department of Radiology Innsbruck-Austria ² Medical University of Innsbruck Department of Neurology Innsbruck-Austria ³

1-P-28 - Hemorrhagic Plaque of Carotid Artery on MRI Predicts Recurrent Ipsilateral Ischemia and Progression of Stenosis: A Single Center Study See Sung Choi ¹, Se Jeong Jeon ¹, Hye Ji Ryu ¹ Wonkwang University Hospital Radiology Iksan-Korea, South ¹

1-P-29 - Volumetric Change of Subcortical Gray Matter Structures in Mild Cognitive Impairment: A Longitudinal MRI Study Berrin Cavusoglu ¹, Emel Ada ², Derya Durusu Emek Savas ³, Gorsev Yener ⁴ Dokuz Eylul University Neuroscience İZMİR-Turkey ¹ Dokuz Eylul University Radiology İZMİR-Turkey ² Dokuz Eylul University Psychology İZMİR-Turkey ³ Dokuz Eylul University Neurology İZMİR-Turkey ⁴

1-P-30 - Prognostic value of mr spectroscopy in high grade astrocytomas. Validation of previous results. Albert Pons¹, Juan J Sánchez- Fernández ¹, Àngels Camins ¹, Margarida Julià- Sapé ², Miguel Gil ³, Carles Arús ⁴, Carles Aguilera¹, Carles Majós ¹ IDI Centre Bellvitge. HU de Bellvitge. Radiology. L'Hospitalet de Llobregat-Spain ¹ Universitat Autònoma de Barcelona. Centro de Investigación en Red en Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN). Unitat de Bioquímica de Biociències. Cerdanyola del Vallès.-Spain ² ICO l'Hospitalet. HU de Bellvitge. Medical Oncology. L-Spain ³ Universitat Autònoma de Barcelona. Unitat de Bioquímica de Biociències. Centro de Investigación en Red en Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN). Cerdanyola del Vallès.-Spain

4 1-P-31 - Neurofibromatosis type 2 - typical presentation, Case report Radivoje Trpcevic¹, Katarina Kacar¹, Jovanka Pisarevic-Neskovic¹ Special hospital for cerebrovascular diseases "Sveti Sava" Radiology Department Belgrade-Serbia ¹

1-P-32 - A rare congenital carotid-vertebrobasilar anastomoses: Persistent trigeminal artery - Case report Jelena Trickovic¹, Katarina Kacar¹, Radivoje Trpcevic¹, Biljana Brkic-Georgievski¹ Special hospital for cerebrovascular diseases Radiology Department Belgrade-Serbia¹

1-P-33 - Giant perivascular spaces: a difficult diagnosis? annapaola bocchio ¹, susanna cordera ², massimo rosset ¹, anna rosano ¹, dany furfaro ¹, teodoro meloni ¹ Regional hospital valle d Radiology aosta-Italy ¹ Regional hospital valle d Neurology aosta-Italy ²

1-P-34 - Vertebrobasilar ischemia with partial MCA territory infarction in case of a complete ICA agenesis Dominik Grieb¹, Jessica Katharina Baltés¹, Katharina Melber¹, Björn Greling¹, Martin Schlunz-Hendann¹, Friedhelm Brassel¹, Dan Meila¹ Sana Kliniken Duisburg Department of Radiology and Neuroradiology Duisburg-Germany ¹

1-P-35 - Importance of MDCT brain perfusion in acute ischemic stroke Kristina Davis¹, Ana Stankovic¹, Jelena Kostic¹, Ivan Nikolic², Faris Crnovrsanin¹, Zivorad Savic¹, Danilo Stankovic¹, Dragam Masulovic² Clinical center of Serbia Emergency room neuroradiology Belgrade-Serbia ¹ Clinical center of Serbia Radiology and mri Belgrade-Serbia ²

1-P.36 - Correlation between neuroimaging and clinical presentation – way to proper diagnosis Gordana Milenkovic ¹, Biljana Georgievski-Brkic ², Tatjana Stosic-Opincal ¹ General Hospital EUROMEDIK Radiology Obrenovac-Serbia ¹ Special Hospital for cerebrovascular diseases Sveti Sava Radiology Belgrade-Serbia²

1-P.37 - Infiltrative Edema on FLAIR Images for Detection of Cerebral Gliomas Slavica Kovacic ¹, Antonija Ruzic Barsic ¹, Damir Miletic ¹, Zoran Rumboldt ² University Hospital Rijeka Radiology Viskovo-Croatia ¹ University of Charleston Radiology Charleston -United States ²

1-P.38 - CT-perfusion of recurrent glial tumors Mikhail Amelin ¹, Jamil Rzaev ², Sergey Chernov ², Andrey Tulupov³ Federal Center for Neurosurgery X-ray department Novosibirsk-Russia ¹ Federal Center for Neurosurgery Surgery Novosibirsk-Russia ² Novosibirsk State research University X-ray department Novosibirsk-Russia ³

1-P.39 - Looking at the spine in a different way: radiological anatomy and its importance in central blockades. Patricia Martin ¹, Elena Salvador ¹, Amaya Hilario ¹, Laura Koren ¹, Federico Ballenilla¹, Jorge Hernando ², Ana Ramos ¹ Hospital 12 De Octubre Radiology Madrid-Spain ¹ Hospital De San Juan Anesthesiology Alicante-Spain ²

1-P.40 - MR Characteristics of Epidermoid Cysts Gordana Tošović ¹, Dragan Stojanov ¹, Slađana Petrović ¹, Ivana Marković ¹, Nikola Stojković ¹ Clinical center Niš Radiology Niš-Serbia ¹

1-P.41 - Laughter induced hemiparesis in a patient with Neurofibromatosis type 1. Anna Drazyk ¹, Alan O'Hare ², Ronan Killeen ³, M Javadpour ⁴, Chris McGuigan ¹ St Vincent's University Hospital Neurology Dublin-Ireland ¹ Beaumont Hospital Neuroradiology Dublin-Ireland ² St Vincent's University Hospital Neuroradiology Dublin-Ireland ³ Beaumont Hospital Neurosurgery Dublin-Ireland ⁴

1-P.42 - Investigation of creatin levels in low and high grade glial tumors using mr spectroscopy Mustafa Nadir ¹, Emel Ada ¹, Agah Baran ¹, Ayca Ersen Danyeli ², Nuri Karabay ¹ Dokuz Eylul University Radiology Izmir-Turkey ¹ Dokuz Eylul University Medical Pathology Izmir-Turkey ²

1-P.43 - The Neuroimaging Investigation in Brain of Alzheimer's Disease Patients Without and With Depression Clayton Chi-Chang Chen ¹, Jyh-Wen Chai ¹, Ni-Jung Chang ¹, Ching-Po Lin ², Hsian-Min Chen ³ Taichung Veterans General Hospital Department of Radiology Taichung-Taiwan ¹ National Yang Ming University Institute of Neuroscience Taipei-Taiwan ² Taichung Veterans General Hospital Department of Medical Research Taichung-Taiwan ³

1-P.44 - Long-term biodistribution and excretion of gadolinium-based contrast agents (GBCAs) Eric Lancelot ¹ Guerbet Clinical Development Roissy CDG Cedex-France ¹

1-P.45 - Leptomeningeal score (LMs) on Computed Tomography Angiography and outcome predictors in Acute Ischemic Stroke (AIS). Edoardo Puglielli ¹, Ruggero Lattanzi ¹, Gianluigi Esposito ¹, Vincenzo Di Egidio ¹ Asl Teramo Interventional Radiology Teramo-Italy¹



1-P.46 - Posterior circulation and Computed Tomography Perfusion (CTP): is it a valid tool for Acute Ischemic Stroke (AIS) patients selection? Edoardo Puglielli¹, Ruggero Lattanzi¹, Gianluigi Esposito¹, Federica De Filippis¹, Vincenzo Di Egidio¹ Asl Teramo Interventional Radiology Teramo-Italy¹

1-P.47 - Misinterpretation of MR Spectroscopy in the Preoperative Diagnosis of Brain tumors Eftychia Kapsalaki¹, Ioannis Tsougos², George Kyrgias³, Kostas Fountas⁴, Ioannis Fezoulidis¹ Univ Of Thessaly Radiology Larissa-Greece¹ Univ Of Thessaly Medical Physics Larissa-Greece² Univ Of Thessaly Radiation Oncology Larissa-Greece³ Univ Of Thessaly Neurosurgery Larissa-Greece⁴

1-P.48 - CORTICAL REORGANIZATION OF LANGUAGE FUNCTION INDUCED BY BRAIN LESIONS: AN fMRI STUDY Loris Di Clemente¹, Valentina Panara¹, Ioan Paul Voicu¹, Riccardo Navarra¹, Roberto Guidotti¹, Peter A. Mattei¹, Massimo Caulo¹ Università degli studi "G. D Department of neuroscience and imaging Chieti-Italy¹

1-P.49 - SVS : inter MRI manufacturers agreement, inter and intra observers agreement, histo-MR correlation Bourcier Romain¹, Détraz Lili¹, Guyomarch Béatrice², Toquet Claire³, Serfaty Jean Michel⁴, Desal Hubert¹ Centre Hospitalier Universitaire, Hôpital R et G Laënnec Diagnostic and Interventional Neuroradiology Nantes-France¹ Centre Hospitalier Universitaire, Hôpital R et G Laënnec Centre d'Investigation clinique Thorax Nantes-² Centre Hospitalier Universitaire, Hôtel Dieu Pathological Anatomy and Cytologie Department Nantes-³ Centre Hospitalier Universitaire, Hôpital R et G Laënnec Diagnostic Cardiac and Vascular Imaging Nantes-⁴

1-P.50 - Correlation between N-acetylaspartate as Neuronal Biomarker with Education Level in Healthy Adults Alma Brakus¹, Sanja Stojanovic¹, Dusko Kozic², Vedran Žigić¹, Biljana Georgievski-Brkic³, Jelena Ostojic¹ Clinical Centre of Vojvodina Centre for Radiology, Novi Sad-Serbia¹ Oncology Institute of Vojvodina, Sremska Kamenica Center for Imaging Diagnostics Novi Sad-Serbia² Special Hospital for Cerebrovascular Disease "Sveti Sava" Belgrade-Serbia³

1-P.51 - Single Brain Post-Contrast Dual-Energy Computer Tomography Acquisition Replacing Pre- and Post-Contrast Acquisitions Nadya Pyatigorskaya¹, Bert Geerts², Bruno Law Ye¹, Damien Galanaud¹, Didier Dormont¹ Pitié Salpêtrière Neuroradiology Paris-France¹ Ghent University Hospital Radiology Radiology Ghent-Belgium²

1-P.52 - CT Angiography Follow-up in the Endovascular Aneurysm Treatment : Early and Late Results Ozden Demir¹, Volkan Cakir², Melda Apaydin², Fazil Gelal² IKCU IAEA Radiology IZMIR-Turkey¹ IKCU IAEA Radiology IZMIR-Turkey²

1-P.53 - Importance of Susceptibility-Weighted Imaging for examining the clot and its lytic response in Acute Cardioembolic Stroke, single center experience ossama mansour mansour¹, mohamed saher² alexandria university neurology and neuroradiology alexandria-Egypt¹ cairo university neurology cairo-Egypt²

1-P-54 - Intracranial calcifications Dejan Kostic ¹, Aleksandar Jovanovski ¹, Smiljana Kostic ², Predrag Peric ³, Biljana Georgievski-Brkic ⁴, Miroslav Misovic ¹, Tijana Kosanovic ¹ Military Medical Academy Institut of radiology Belgrade-Serbia ¹ Military Medical Academy Clinic for neurology Belgrade-Serbia ² Military Medical Academy Clinic for neurosurgery Belgrade-Serbia ³ Special Hospital for Cerebrovascular Diseases, Sveti Sava radiology, Belgrade-Serbia ⁴

1-P-55 - Mutlimodality MR imaging for differentiation between brain tumor lesions Faris Durmo ¹, Anna Rydelius ², Silke Engelholm ³, Sara Kinhult ³, Krister Askaner ⁴, Jimmy Lätt ⁵, Pia C Sundgren ⁶ Institution of Clinical Sciences Lund University Kristianstad-Sweden ¹ Institution of Clinical Sciences Department of Neurology, Skane University Hospital, Lund University Lund-Sweden ² Institution of Clinical Sciences Department of Oncology, Skane University Hospital, Lund University Lund-Sweden ³ Center for Imaging and Function Department of Medical Imaging and physiology, Skane University Hospital, Lund University Malmö-Sweden ⁴ Center for Imaging and Function Department of Medical Radiation Physics, Skane University Hospital, Lund University Lund-Sweden ⁵ Institution of Clinical Sciences Department of Radiology, Skane University Hospital, Lund University Lund-Sweden ⁶

1-P-56 - Volume perfusion CT imaging of cerebral vasospasm: diagnostic performance of different perfusion maps Ahmed E. Othman ¹, Saif Afat ², Omid Nikoubashman ², Marguerite Müller ², Gerrit Alexander Schubert ³, Georg Bier ⁴, Marc A. Brockmann ⁵, Martin Wiesmann ², Carolin Brockmann ² University Hospital Tuebingen Department of Diagnostic and Interventional Radiology Tuebingen-Germany ¹ University Hospital Aachen Department of Diagnostic and Interventional Neuroradiology Aachen-Germany ² University Hospital Aachen Department of Neurosurgery Aachen-Germany ³ University Hospital Tuebingen Department of Neuroradiology Tuebingen-Germany ⁴ University Hospital Mainz Department of Diagnostic and Interventional Neuroradiology Mainz-Germany ⁵

1-P-57 - Diagnostic performance of Low-Dose Volume Perfusion CT for the detection of cerebral vasospasm Saif Afat ¹, Carolin Brockmann ¹, Marguerite Müller ¹, Omid Nikoubashman ¹, Marc A. Brockmann ², Konstantin Nikolaou ³, Martin Wiesmann ¹, Ahmed E. Othman ³ University Hospital Aachen Department of Diagnostic and Interventional Neuroradiology Aachen-Germany ¹ University Hospital Mainz Department of Diagnostic and Interventional Neuroradiology Mainz-Germany ² University Hospital Tuebingen Department of Diagnostic and Interventional Radiology Tuebingen-Germany ³

1-P-58 - The use of Vertebral artery Surface Anatomical Scanning (VSAS) in patients of vertebral artery dissection for anatomical diagnosis of association between vertebral artery and posterior inferior cerebellar artery Kensaku Yoshida ¹ Tokyo Metropolitan Hiroo Hospital Neurosurgery Tokyo-Japan ¹

1-P-59 - Reduction of Intracranial Clip Artifacts using Monoenergetic Extrapolations from Dual-Energy Computed Tomography Sebastian Winkhofer ¹, Gerasimos Baltasvias ¹, Ricarda Hinzpeter ², Jan-Karl Burkhardt ³, Antonios Valavanis ¹, Hatem Alkadihi ² University Hospital Zurich, University of Zurich Department of Neuroradiology Zurich-Switzerland ¹ University Hospital Zurich, University of Zurich Institute of Diagnostic and Interventional Radiology Zurich-Switzerland ² University Hospital Zurich, University of Zurich Department of Neurosurgery Zurich-Switzerland ³



1-P.60 - The Efficiency Of Gradient Echo (GRE) And Susceptibility Weighted Imaging (SWI) Sequences In The Detection Of Early Cerebral Parenchymal Microbleeds In Patients With Acute Stroke Zafer Sarialtin ¹, Kamil Karaali ¹, Ali Ünal ², Utku Şenol ¹ Akdeniz University Radiology Antalya-Turkey ¹ Akdeniz University Neurology Antalya-Turkey ²

1-P.61 - Evaluation of an optimized metal-artifact-reduction algorithm for flatdetector CT angiography Nadine Amelung ¹, Daniel Behme ¹, Ioannis Tsogkas ¹, Michael Knauth ¹, Marios Nikos Psychogios ¹ University Clinic Göttingen Neuroradiology Göttingen-Germany ¹

1-P.62 - MRI Findings In Pediatric Patients Presenting With Headache Aydın İnce ¹, Ali Dablan ¹, Öznur Bozkurt², Özgür Duman ², Kamil Karaali ¹, Hakkı Timur Sindel ¹ Akdeniz University Radiology Antalya-Turkey ¹ Akdeniz University Pediatric Neurology Antalya-Turkey ²

1-P.63 - Morphological and perfusion MRI abnormalities during acute migraine aura Gilles Adam ¹, Alain Viguier², Vanessa Cazzola ¹, Marine Ferrier ¹, Manuela Kamsu ¹, Sofia Patsoura ¹, Raluca Gramada ¹, Christophe Cognard ¹, Nelly Fabre², Fabrice Bonneville ¹ University hospital of Purpan Diagnostic and therapeutic neuroradiology service Toulouse-France ¹ University hospital of Purpan Neurology service Toulouse-France ²

1-P.64 - Neural foundations of goal directed overt and covert actions Efosini Papadaki ¹, Eleftherios Kavroulakis ¹, Georgios Kalaitzakis ², Themistoklis Boursianis ², Thomas Maris ², Helen Savaki ³, Panagiotis Simos ⁴ University Of Crete Radiology Heraklion-Greece ¹ University Of Crete Medical Physics Heraklion-Greece ² University Of Crete Neuroscience Heraklion-Greece ³ University Of Crete Psychiatry Heraklion-Greece ⁴

1-P.65 - Arterial spin labeling perfusion in pediatric epilepsy. Experience in the institute of neurosurgery DR. ASENJO. Francisco Torres ¹, Cecilia Okuma ¹, Francisca Montoya ¹, Marcelo Jara ¹, Mario Castro ¹, Aaron Vidal ¹, Roberto Marileo ¹, Ingeborg López ¹, Daniel Echeverria ¹, Lautaro Badilla ¹ Institute of Neurosurgery Dr. Asenjo Neuroradiology Santiago-Chile ¹

1-P.66 - Necrotic Glioblastomas and Necrotic Metastatic Brain Tumors: Discrimination with Susceptibility-Weighted Imaging and the Apparent Diffusion Coefficient Ping-Hong Lai¹, Tzu-Chao Chuang², Jui-Hsun Fu¹, Po-Chin Wang¹, Shuo-Hsiu Hsu¹, Huey-Shyan Lin³ Kaohsiung Veterans General Hospital Radiology Kaohsiung-Taiwan¹ National Sun Yat-Sen University Electrical Engineering Kaohsiung-Taiwan² School of Nursing, Fooyin University Program of Health-Business Administration Kaohsiung-Taiwan³

1-P.67 - Diffusion tensor imaging shows brain structural damage associated with verbal memory in subjects with multiple sclerosis Gerard Blasco ¹, Briggith Beltrán ¹, Carles Biarnés ¹, Jordi Gich ², Mireia Rivero ², Judith Salvedra ², Pepus Daunis-i-Estadella ³, Salvador Pedraza ¹, Lluís Lamió ², Josep Puig ¹ Imaging Research Unit, Diagnostic Imaging Institute (IDI), Dr. Josep Trueta University Hospital Radiology Girona-Spain ¹ Neuroimmunology and Multiple Sclerosis Unit, Department of Neurology, Dr. Josep Trueta University Hospital Neurology Girona-Spain ² University of Girona Department of Computer Science, Applied Mathematics and Statistics Girona-Spain ³

1-P.68 - Multiple Susceptibility based MRI Techniques for the Diagnosis of Nigrosome¹ Kyung Mi Lee¹, Hyug-gi Kim¹, Eui Jong Kim¹, Woo Suk Choi¹ Kyung Hee University Hospital Radiology Seoul-Korea, South¹

2 - Interventional

2-P.01 - The ICAN project : Understanding the pathophysiology of intracranial aneurysm **romain bourcier¹**, cedric lenoble¹, benjamin daumas-duport¹, vincent l'allinec¹, alexis moles¹, hubert desal¹ CHU de Nantes Neuroradiology Nantes-France¹

2-P.02 - Single center experience with Endovascular Treatment of Intracranial Dural Arteriovenous **Fistulas** Andrijana Jović¹, Vladimir Kalousek², Branimir Čulo¹, Kreimir Rotim³ UHC "Sisters of Mercy" Department of diagnostic and interventional radiology Zagreb-Croatia¹ UHC "Sisters of Mercy" Neurointerventional Unit Zagreb-Croatia² UHC "Sisters of Mercy" Department of Neurosurgery Zagreb-Croatia³

2-P.03 - Single-Centre Experience Using the 3MAX Reperfusion Catheter for the Treatment of Acute Ischemic Stroke with Distal Arterial Occlusion Kévin Premat¹, Bruno Bartolini¹, Flore Barronnet², Nader Sourour¹, Joseph Gabrieli¹, Charlotte Rosso², Federico Di Maria¹, Silvia Pistocchi¹, Vincent Degos³, Yves Samson², Jacques Chiras¹, Frédéric Clarençon¹ Pitié-Salpêtrière Hospital Interventional Neuroradiology 75013-France¹ Pitié-Salpêtrière Hospital Vascular Neurology 75013-France² Pitié-Salpêtrière Hospital Anaesthesiology 75013-France³

2-P.04 - Endovascular treatment of complex saccular and fusiform intracranial aneurysms with flow diverter devices Tomaz Seruga¹, Marko Jevsek¹ University Clinical Centre Radiology Maribor-Slovenia¹

2-P.05 - The dual lumen balloon catheter – a multipurpose device with unique features Ljubisa Borota¹, Ehab Mahmoud¹, Christoffer Nyberg¹, Per Enblad², Elisabeth Ronne-Engström² University Hospital Centre for Medical Imaging Uppsala-Sweden¹ University Hospital Department of Neurosurgery Uppsala-Sweden²

2-P.06 - Vertebroplasty for cervical lesions How to improve quality of filling and safety. 25 cases Chiras Jacques¹, Cormier Evelyne¹, Clarençon Frederic¹ Aphp 75 Paris-France¹

2-P.07 - Vascular angular remodeling by kissing-Y stenting in wide-necked intracranial bifurcation aneurysms Katharina Melber¹, Friedhelm Brassel¹, Dan Meila¹, Martin Schlunz-Hendann¹, Dominik Grieb¹ Sana Kliniken Duisburg Department of Radiology and Neuroradiology Duisburg-Germany¹

2-P.08 - Treatment of a giant cavernous carotid artery aneurysm with two balloon-expandable stent grafts – a technical note Dominik Grieb¹, Dan Meila¹, Katharina Melber¹, Björn Greling¹, Martin Schlunz-Hendann¹, Friedhelm Brassel¹ Sana Kliniken Duisburg Department of Radiology and Neuroradiology Duisburg-Germany¹



2-P.09 - Percutaneous Transluminal Angioplasty Using neck remodeling (compliant) balloon catheter for the treatment of severe vasospasm following intracranial aneurysm rupture. Rokudai Sakamoto¹, Masaru Hirohata², Toshi Abe³, Motohiro Morioka¹ Kurume Univeristy Neurosurgery Kurume-Japan¹ Kurume University Neurosurgery Kurume-Japan² Kurume University Radiology Kurume-Japan³

2-P.10 - Multimodal experience in intra-arterial Acute Ischemic Stroke (AIS) treatment. Edoardo Puglielli¹, Ruggero Lattanzi¹, Gianluigi Esposito¹, Vincenzo Di Egidio¹ Asl Teramo Interventional Radiology Teramo-Italy¹

2-P.11 - Usefulness of stent assisted aneurysmal embolization for the treatment for unruptured vertebral artery dissecting aneurysm Masaru Hirohata¹, Rokudai Sakamoto², Toshi Abe³, Hotohiro Morioka¹ Kurume University Neurosurgery Kurume-Japan¹ Kurume Univesity Neurosurgery Kurume-Japan² Kurume University Radiology Kurume-Japan³

2-P.12 - 3D vascular model is valuable in neurointervention. Shigeru Nemoto¹ Tokyo Medical and Dental University Endovascular Surgery Tokyo-Japan¹

2-P.13 - Mechanical thrombectomy in acute ischaemic stroke: device-thrombus interaction in a pulsatile flow model of the MCA Frank Lally¹, Iris Grunwald², Mahdi Saleh³, Scott Eaves¹, Christine Roffe¹ Keele University Institute for Science and Technology in Medicine Stoke-On-Trent-United Kingdom¹ John Radcliffe Hospital NIHR Oxford Biomedical Research Centre Acute Vascular Imaging Centre Oxford-United Kingdom² Charing Cross Hospital Clinical Decisions Unit London-United Kingdom³

2-P.14 - “Helical” Hyperplasia in Intracranial Flow-Diverter Stent: one case report carmine sicignano¹, giuseppe buono¹, luigi delehaye¹, giuseppe la tessa¹, vincenzo d'agostino¹, valeria piscitelli¹, giovanni sirabella¹
P.O. Loreto Nuovo Neuroradiology Napoli-Italy¹

2-P.15 - Glomus tympanicum – diagnosis and treatment Case report Aleksandar Jovanovski¹, Dejan Kostić¹, Igor Sekulić¹, Mi el Radulac¹, Tijana Kosanović¹ Military Medical Academy Institute of radiology Belgrade-Serbia¹

2-P.16 - Endovascular treatment of intra cranialvertebral dissecting aneurysms: pattern of disease and therapeutic options in a single centre. Chinthaka Appuhamy¹, Wickly Lee¹, Francis Hui¹ National Neuroscience Institute Neuroradiology Novena-Singapore¹

2-P.17 - Endovascular treatment of head and neck tumours complicated with vascular invasion. Chinthaka Appuhamy¹, Ashank Bansal¹, Wickly Lee¹ National Neuroscience Institute Neuroradiology Novena-Singapore¹

3- Head & Neck

3-P.01 - The contribution of high field MRI in the diagnosis of extraocular extension in retinoblastoma: a comparative study Aranzazu Royo¹, Alberto Alvarez-Muelas¹, Cristina Utrilla¹, Jose Abelairas², Nelson Mauricio Buitrago¹, Amelia Fernandez-Zubillaga¹, Juan Alvarez-Linera³, Gonzalo Garzón⁴ Hospital Universitario La Paz Neuroradiology Madrid-Spain¹ Hospital Universitario La Paz Pediatric Ophthalmology Madrid-Spain² Hospital Ruber Internacional Neuroradiology Madrid-Spain³ Hospital Universitario La Paz Radiology Department Madrid-Spain⁴

3-P.02 - SECURE study: observational post-marketing study on the safety profile of gadoteric acid - Final results in 35,499 patients De-Hua Chang¹ university clinic cologne Radiology Cologne-Germany¹

3-P.03 - Labyrinthine hemorrhage detected on magnetic resonance image as a cause of sudden profound sensorineural hearing loss Dong Woo Park¹ Hanyang University Guri Hospital Radiology Guri-Korea, South¹

4- Spine

4-P.01 - Importance of analysis of spinal cord in primary demyelinating disease suggestive cases Svjetlana Jelic¹, Daliborka Maric¹ University Clinical Centre of Republic of Srpska Department of Clinical Radiology Banja Luka-Bosnia and Herzegovina¹

4-P.02 - Diastematomyelia in adults: report of two cases. Laura Saitta¹, Caterina Lapucci², Lara Castelletti², Lucio Castellani¹ San Martino IST Hospital Neuroradiology Genoa-Italy¹ San Martino IST Hospital Neurology Genoa-Italy²

5 - Pediatric

5-P.01 - Disrupted glutamate-glutamine cycle in acute encephalopathy with biphasic seizures and late reduced diffusion (AESD) Jun-ichi Takanashi¹, Eri Oguni¹, Masashi Mizuguchi² Tokyo Women's Medical Univ. Yachiyo Medical Ctr. Pediatrics Yachiyo-Japan¹ Graduate School of Medicine, the University of Tokyo Developmental Medical Sciences Tokyo-Japan²

5-P.02 - Magnetic Resonance abnormalities in epileptic children and adolescence: 5 year experience Hye Jeong Kim¹, Hee Yeong Kim¹, Ji Young Woo¹, Ik Yang¹ Kangnam Sacred Heart Hospital radiology Seoul-Korea, South¹

5-P.03 - Diffusion tensor imaging and fiber tractography of the congenitally thickened corpus callosum Katarzyna Nowak¹, Elzbieta Jurkiewicz², Sylwia Chelstowska³, Katarzyna Kotulska-Jozwiak³, Piotr Pawliszak¹, Krzysztof Sadowski³, Iwona Pakula-Kosciesza⁴ The Children's Memorial Health Institute Department of Diagnostic Imaging Warsaw-Poland¹ The Children's Memorial Health Institute Department of Diagnostic Imaging Warsaw-Poland² The Children's Memorial Health Institute Department of Neurology Warsaw-Poland³ The Children's Memorial Health Institute Department of Diagnostic Imaging Warsaw-Poland⁴



5-P.04 - Pediatric glioblastoma - utility of the perfusion and diffusion weighted imaging Sylwia Chelstowska¹, Elżbieta Jurkiewicz², Katarzyna Nowak¹, Bożenna Dembowska-Baginska³, Marta Perek-Polnik⁴, Katarzyna Malczyk¹, Piotr Pawliszak⁵ The Children Department of Diagnostic Imaging Warsaw-Poland¹ The Children Department of Diagnostic Imaging Warsaw-Poland² The Children Deptment of Oncology Warsaw-Poland³ The Children Department of Oncology Warsaw-Poland⁴ The Children Department of Diagnostic Imaging Warsaw-Poland⁵

5-P.05 - Imaging findings in neonatal cerebral sinovenous thrombosis: Review of 4 years experience of a national tertiary referral hospital in Spain. Nelson Mauricio Buitrago Sánchez¹, Amelia Fernández Zubillaga¹, Malaika Cordeiro Alcaine², Cristina Utrilla Contreras¹, Arancha Royo Orejas¹, Gonzalo Garzón Moll³ Hospital Universitario La Paz Neuroradiology Madrid-Spain¹ Hospital Universitario La Paz Neonatal Intensive Care Unit Madrid-Spain² Hospital Universitario La Paz Vascular and Interventional Radiology Madrid-Spain³

5-P.06 - Microcephaly caused by Zika virus – MRI of the fetal brain and correlation with neuropathology Tina Vipotnik Vesnaver¹, Nataša Tul², Jernej Mlakar³, Sara Mehrabi⁴, Tatjana Avič Zupanc⁵, Mara Popovič³ University Clinical Centre Institute of Radiology Ljubljana-Slovenia¹ University Clinical Centre Dept of Perinatology Ljubljana-Slovenia² Faculty of Medicine Institute of Pathology Ljubljana-Slovenia³ Policlinico G.B. Rossi Institute of Radiology Verona-Italy⁴ Faculty of Medicine Institute of Microbiology and Immunology Ljubljana-Slovenia⁵

5-P.07- Particularly severe hypoplastic cerebellum located in upper cervical spinal canal associated with open spinal dysraphism – is it Chiari II malformation ? – A case report Marijana Karlović-Vidaković¹, Zlatko Kolić² Clinical Hospital Mostar Neuroradiology Departement Mostar-Bosnia and Herzegovina¹ Special Clinic Medico Neurosurgery Departement Rijeka-Croatia²

5-P.08 - Rasmussen encephalitis Hakan Cebeci¹, Ibrahim Guler¹, Huseyin Ozbiner¹, Yahya Paksoy¹ Selcuk University Faculty of Medicine Radiology Konya-Turkey¹

5-P.09 - The role of neuroimaging in non-accidental head injury: looking beyond the obvious Juan Andres Mora¹, Carolina Tramontini Jens², Karen Natalia Nieto¹, Piedad Uruña³, Alexandra Bernal⁴, Nohora Castaño¹, Cherina Herazo¹ Sanitas- Clinica Colombia Radiology Bogotá-Colombia¹ Sanitas- Clinica Combia Radiology Bogotá-Colombia² Instituto Neurologico de Colombia Radiology Bogota-Colombia³ Hospital San Jose Radiology Bogotá-Colombia⁴

5-P.10 - Unusual case of pontine and extrapontine myelinolysis in a child with adrenal insufficiency Nikola Boban¹, Dusko Kozic², Marija Knezevic-Pogancev³, Jasmina Boban², Natasa Kovac³ Clinical Center of Vojvodina Radiology Department Novi Sad-Serbia¹ Oncology Institute of Vojvodina Diagnostic Imaging Center Sremska Kamenica-Serbia² Institute for Children and Adolescent Healthcare of Vojvodina Neurology Department Novi Sad-Serbia³

5-P.11 - Fetal MRI in diagnosis of brain and spine malformations Ivana Markovic ¹, Vesna Stokanovic ¹, Zoran Radovanovic ¹, Petar Bosnjakovic ² Clinical Center Nis Center for Radiology Nis-Serbia ¹ Ibn Sina Hospital Radiology department Kuwait-Kuwait ²

5-P.12 - Non-enhanced MRI and MRA for endovascular treatment planning in Vein of Galen Malformation Dan Meila ¹, Nikola Duerr ¹, Heinrich Lanfermann ², Friedhelm Brassel ¹ Sana Kliniken Duisburg Department of Radiology and Neuroradiology Duisburg-Germany ¹ Medical School Hannover Department of Diagnostic and Interventional Neuroradiology Hannover-Germany ²

5-P.13 - Added value of FLAIR images in the evaluation of brain anomalies Mariana Cardoso Diogo ¹, Gerlinde M. Gruber ⁶, Peter Brugger ⁶, Gregor Kasprian ², Michael Weber ⁶, Daniela Prayer ² Centro Hospitalar de Lisboa Central Neuroradiology Lisboa-Portugal ¹ Medical University of Vienna Neuroradiology Vienna-Austria ²

5-P.14 - A novel index indicating pituitary insufficiency: Pons ratio ozum tuncyurek ¹, mehmet turgut ², tolga unuvar ³, R Shane tubbs ⁴, yelda ozsunar ¹ adnan menderes university radiology aydin-Turkey ¹ adnan menderes university neurosurgery aydin-Turkey ² adnan menderes university Pediatric Endocrinology aydin-Turkey ³ Seattle Science Foundation neurosurgery seattle-United States ⁴

5-P.15 - Predictive value of apparent diffusion coefficient (ADC) in hypoxic newborns treated with hypothermia Maja Cimpersek ¹, Nuska Pecaric Meglic ¹, Darja Paro Panjan ², Andreja Skofljanec ², Katarina Surlan Popovic ¹ University medical center Clinical institute of radiology Ljubljana-Slovenia ¹ University medical center Pediatric clinic Ljubljana-Slovenia ²



GENERAL INFORMATION

Venue :Crowne Plaza Belgrade

Address :Vladimira Popovica 10 Beograd, Belgrade - 11070, Serbia

Phone : +381-11-2204004 Fax: +381-11-2204104

Registration Desk Working Hours:

September 15, 2016	07:30 – 18:30
September 16, 2016	07:30 – 18:30
September 17, 2016	08:00 – 18:30
September 18, 2016	08:00 – 12:30

Exhibition Working Hours:

September 15, 2016	08:00 – 18:00
September 16, 2016	08:00 – 18:00
September 17, 2016	08:00 – 18:00
September 18, 2016	08:00 – 12:30

Official Language :English is the official language of the Meeting. Simultaneous translation will not be provided.

Certificate of Attendance: A certificate of attendance is automatically generated by the registration system and sent to the delegates by email once the name badge is printed at the registration desk. Please contact esnr@dekon.com.tr if you do not receive your certificate of attendance.



SCIENTIFIC INFORMATION

The 39th ESNR Annual Meeting, 23rd Advanced Course in Diagnostic Neuroradiology and 8th Advanced Course in Interventional Neuroradiology will take place at Crowne Plaza Hotel Belgrade from September 15 to 18, 2016.

Oral Presentations and E-Poster Sessions

There are 7 Sessions in which the selected abstracts sent by participants have been slotted into Oral Presentations. Posters at the 39th ESNR Annual Meeting will be digital. E-Posters will be presented on display monitors in the Exhibition Hall.

Authors are invited to be available for discussion or questions during the coffee/lunch breaks. Meeting attendees have access to all e-posters on the monitors at any time during the meeting.

Electronic Poster presentations of the ESNR Annual Meeting will be available for viewing from Tuesday September 15 to Sunday September 18. We highly recommend the authors to go to the E-Posters Area and access their presentation to ensure that it displays properly. Dekon staff will be available on-site for support. All the abstracts received by the deadline are published on the dedicated issue of Neuroradiology, the official Journal of the European Society of Neuroradiology.

The best poster will be selected and awarded at the end of the Meeting.

Technical Requirements for Speakers and Authors of Oral presentations

Both pc and Mac data projection are available at the Meeting. Each Room will be provided with a laptop. Use of personal laptops will not be allowed. Speakers with their personal laptops are kindly requested to go to the Speaker Ready Room (located inside the Speakers Lounge) at least 2 hours before the presentation in order to have their presentation copied and checked. For any special requirement, please contact Dekon staff at the Speaker Ready Room.

Speakers are invited to be in the Room assigned for presentation at least 10 minutes before the beginning of the Session and to respect the timing assigned to their presentation.



CME INFORMATION

Our three ESNR events received CME credits (ECMEC) by the European Accreditation Council for Continuing Medical Education (EACCME).

39th ESNR Annual Meeting – code n. 14438: 14 credits

23rd Advanced Course in Diagnostic Neuroradiology – code n. 14434: 6 credits

8th Advanced Course in Interventional Neuroradiology – code n. 14433: 6 credits

The three events are accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS). www.uems.net.

- The 23rd Advanced Course in Diagnostic Neuroradiology is designated for a maximum of (or "for up to") 6 hours of European external CME credits.

- The 8th Advanced Course in Interventional Neuroradiology is designated for a maximum of (or "for up to") 6 hours of European external CME credits.

- The 39th ESNR Annual Meeting is designated for a maximum of (or "for up to") 15 hours of European external CME credits.

Each medical specialist should claim only those hours of credit that he/ she actually spent in the educational activity. Through an agreement between the European Union of Medical specialist and the American Medical Association, physician may convert EACCME credits to an equivalent number of AMA PRA Category 1 Credit™. Information on the process to convert EACCME credit to AMA credit can be found at www.ama-assn.org.

Live educational activities. Occurring outside of Canada recognized by the UEMS-EACCME for ECMEC credit are deemed to be Accredited Group Learning Activities (Section 1) defined by the Maintenance of Certification Program of The Royal College of Physician and Surgeons of Canada

The certificate will be sent by email to all the attendees who have correctly filled out the UEM Evaluation Questionnaire of meeting (participants attending to one Advanced Course and the Annual Meeting will fill out two questionnaires).

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INDUSTRY SPONSORED SYMPOSIA

Friday, September 16th 2016

'From brain hypersignals to gadolinium retention: toolkit to better understand published data'



12:00 -12:50	Plenary Hall - Moderator: Prof. Majda Thurnher
12:00 -12:05	Introduction
12:05 -12:45	Interactive presentations with the participation of: Alexander Radbruch (Heidelberg, Germany) Lawrence N. Tanenbaum (New York, USA) Eric Lancelot (Medical and Regulatory Affairs, Guerbet)
12:45 -12:50	Conclusion

Friday, September 16th 2016



'Contrast-enhanced MR imaging: facts and myths'

13:10 -14:00	(Atlantic/Pacific Room) - Moderator: Paul M. Parizel Gadolinium-based contrast agents: similarities and differences for neuroimaging applications Zoran Rumboldt (Charleston, USA)
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Contrast agent safety: what does available evidence tell us?

Josef Vymazal (Prague, Czech Republic)

Saturday, September 17th 2016



'Update and Understanding on Gd Deposits'

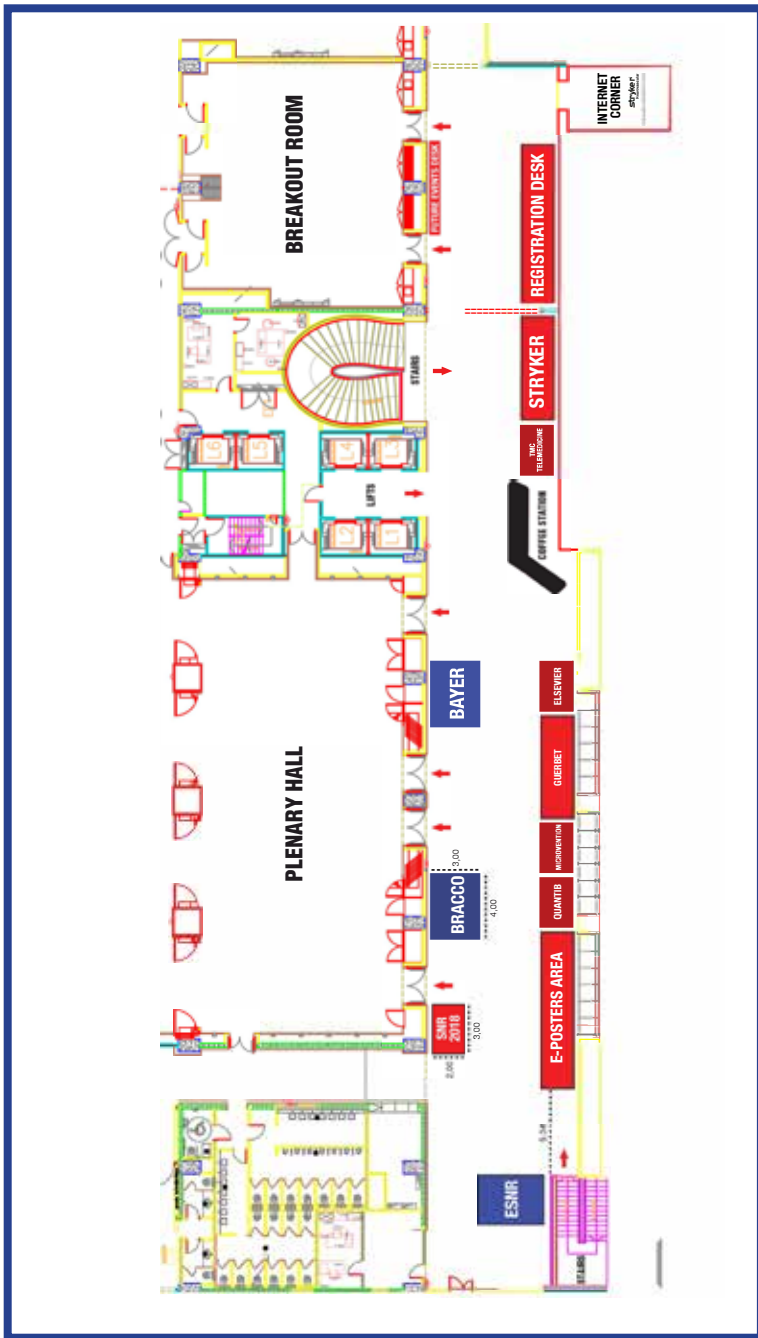
12:10 - 13:00	Plenary Room Atlantic/Pacific - Moderator: Alex Rovira
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What do we know from the clinical research?

Michael Forsting (Essen, Germany)

Gd deposits in preclinical perspective

Hubertus Pietsch (Berlin, Germany)



EXHIBITION AREA PLAN

Satellite Symposium  ESNR 2016

From brain hypersignals to gadolinium retention: toolkit to better understand published data

Chairperson: Prof. Majda Thurnher (Vienna, Austria)

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Invitation  Friday, September 16th, 2016

 12:00-12:50

 Plenary Hall

 Crowne Plaza Hotel, Belgrade

12:00–12:05  **Introduction**
by the Chairperson

12:05–12:45  **Interactive presentations with the participation of:**
Dr. Alexander Radbruch (Heidelberg, Germany)
Prof. Lawrence N. Tanenbaum (New York, USA)
Dr. Eric Lancelot (Medical and Regulatory Affairs, Guerbet)

12:45–12:50  **Conclusion**
by the Chairperson

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Due to overdose considerations, immediate repeat myelography in the event of technical failure is contraindicated. **Special warnings and special precaution for use.** Consideration of possible serious side effects, the use of iodinated contrast media should be limited to cases for which there is a precise need for a contrast examination. Use in specific patients: *Neonates, infants, children.* Young infants (age <1 year) especially neonates, are particularly susceptible to electrolyte imbalances and haemodynamic alterations. Care should be taken regarding the dosage to be used, the details of the procedure and the patient's status. *Elderly.* The elderly are at special risk of reactions due to CM high dosage. The frequently encountered combination of neurological disturbances and severe vascular pathologies constitutes a serious complication. Hypersensitivity or a previous history of a reaction to iodinated contrast media also increases the risk of recurrence of a severe reaction with non ionic media. *Women of child-bearing potential:* appropriate investigations and measures should be taken when exposing women of child-bearing potential to any X-ray, examination, whether with or without contrast medium. Caution should be used in patients to patient with allergic disposition, hay fever, hives and food allergy, asthmatic patients, hyperthyroidism, nodular goitre, renal impairment, diabetes mellitus, multiple myeloma, paraproteinaemia (Waldstroem's paraproteinemia), myelomatosis or paraproteinaemias, myasthenia gravis, severe liver and renal dysfunctions, severe cardiovascular disease, severe and chronic hypertension, acute cerebral infarction, acute intracranial haemorrhage, and conditions involving blood-brain-barrier (BBB) damage, brain oedema and acute demyelination, presence of intracranial tumors or metastases and a history of epilepsy, neurological symptoms due to degenerative, inflammatory or neoplastic cerebrovascular pathologies, cerebrovascular diseases, stroke stroke or frequent TIA (transient ischaemic attack), alcoholism. **Undesirable effects: general.** The use of iodinated contrast media may cause untoward side effects. They are usually mild to moderate. However, more serious reactions up to anaphylactoid shock, with possible fatal outcome, may occur. In most cases reactions occur within minutes of dosing. However, reactions may manifest also later on up to 24 hours from the injection, depending on the administration route. Anaphylaxis (anaphylactoid/hypersensitivity reactions) may manifest with various symptoms, and rarely does any one patient develop all the symptoms. Typically, in 1 to 15 min (but rarely after as long as 2 h), the patient complains of feeling abnormal, agitation, flushing, feeling hot, sweating increased, dizziness, lacrimation increased, rhinitis, palpitations, paraesthesia, pruritus, head throbbing, pharyngolaryngeal pain and throat tightness, dysphagia, cough, sneezing, urticaria, erythema, and mild localised oedema or angioneurotic oedema and dyspnoea owing to tongue and laryngeal oedema and/or laryngospasm manifesting with wheezing and bronchospasm. Nausea, vomiting, abdominal pain, and diarrhoea are less common. Severe anaphylactoid reactions involving the cardiovascular system, such as vasodilatation, with pronounced hypotension, reflex tachycardia, dyspnoea, agitation, cyanosis and loss of consciousness progressing to respiratory and/or cardiac arrest may result in death. These events can occur rapidly and require full and aggressive cardio-pulmonary resuscitation. Primary circulatory collapse, can occur as the only and/or initial presentation without respiratory symptoms or without other signs or symptoms outlined above. **Overdose.** Overdose may lead to life-threatening adverse effects mainly through effects on the pulmonary and cardiovascular system. **Instruction for use/handling.** Vial or bottles containing contrast media solution are not intended for the withdrawal of multiple doses. Bottles of 500 ml should be used in conjunction with an injector system. After each patient examination, the connecting tubes (to the patient) and relevant disposable parts should be changed. **Marketing Authorisation Information.** The Marketing Authorisation Holder, number, and date of approval may be different in different countries. Volumes, presentations, and indications may also differ. Refer to the local Summary of Product Characteristics. Please contact Bracco Imaging SpA - Via Egidio Follì, 50 20134 Milano - Italy for further information. **Date of Preparation of this Document:** October 2012

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