

# **World Federation of Neurosurgical Societies (WFNS) Neurorehabilitation & Reconstruction Neurosurgery Committee : Activities and Future Plans**

2020 was a difficult, depressing and lull year for all of us irrespective of our nationality or community. As is said that necessity is the mother of invention, we found out the way to continue medical education in the virtual platform.

WFNS- Neurorehabilitation & Reconstruction Neurosurgery is an "open" multidisciplinary neurosurgical Group in fast evolution. Many different souls inspire new trends in many different neurosurgical fields, all dealing with "neurosurgical reconstruction". Spine and peripheral nerves reconstructive surgery, central nervous system revascularization (surgical, radio interventional), neuro oncology and cytoreductive neurosurgery along with neuromodulation, bioengineering and transplantation are the effective tools to promote reconstruction, restoration, and rehabilitation. These are the three key words of our creed and all fulfil the aim of our Committee, dealing with mechanical, morphological, and functional restoration. Spinal, functional, vascular, radio and oncologic neurosurgeons are the addressees of our proposal along with biologists, bioengineers, anatomists', physiologists, physiotherapists who are precious and irreplaceable inspirers.

The WFNS – Neurorehabilitation and Reconstruction Neurosurgery Committee had planned to conduct the following meetings in 2020:

1. Joint meeting with ACNS in 14-15<sup>th</sup> March 2020 at Chennai, India
2. 20-22<sup>nd</sup> August 2020 with ICRAN in Bangalore, India
3. 3<sup>rd</sup>-6<sup>th</sup> September, 2020 in Malaysia with NAM
4. 5<sup>th</sup>-8<sup>th</sup> November, 2020 with 33<sup>rd</sup> Annual conference of Pakistan society of Neurosurgeons
5. 20<sup>th</sup>-22<sup>nd</sup> November 2020 in Nepal with WFNS Anatomy committee and ACNS

Unfortunately, due to COVID 19 none of these physical meetings could be materialised.

From July 2020 to January 2021, WFNS -Neurorehabilitation and Reconstruction Neurosurgery Committee successfully conducted ten virtual meetings with various renowned and rising neurosurgeons. No financial support was taken from WFNS.

We tried to involve or engage other Societies' or Committee' webinars, so both providing our "know how" and merging our experiences. We tried to carry out the classic neurosurgery from an old fashion removal philosophy to a new model of "restorative demolition". In other words, although historically reconstruction was intended as a pure mechanical way, in our philosophy concepts dealing with restoration or rehabilitation cannot be identified in a simple demolishing plan but as a surgical procedure's armamentarium aiming to repairing neurological structures.

A total of fifty-two speakers participated. The speakers were from India, Italy, Australia, Germany, USA, UK, Malaysia, China, South Korea, Japan, South Africa, Colombia, Spain, France, Netherlands, Saudi Arabia, Switzerland, Indonesia, and Singapore. The scientific talks were highly interactive and, in many ways, seemed like a master class. Despite a sea of webinars during the lockdown, we had a good registration count for all the webinars. Five of the meetings had collaboration with AASNS- Neurotrauma committee which helped in enhancing the variety of speakers and the viewership.

We collaborated a joint virtual meeting with WFNS Neurotrauma Committee (ICRAN ) on 5<sup>th</sup>-6<sup>th</sup> December 2020.

## Future

- Meeting (virtual) is planned in April / May 2021 spread over two days. Each day would have multiple sessions with a combined duration of four hours.
- CONGRESSES UNDER OUR PATRONAGE: June the 24th – the 26th, 2021 14 Congress of the European Skull Base Society: From our Master to the Future. Jugular foramen and craniocervical junction (Visocchi, Signorelli)
- March the 25th 2021 Vascular demolition and reconstruction: 7 strategies (BRUNEAU, FROENLICH, CENZATO, ZHONG, STURIALE, VISOCCHI, SINHA, DUFF)
- March the 26th 2021 (Joint Meeting of WFNS Neurorehabilitation & Reconstruction Neurosurgery Committee & AASNS Neurotrauma Committee) : 6 Speakers (SURESH M DUGANI, V D SINHA, IYPE CHERIAN, XIAN-JIAN HUANG, R RAMNARAYAN, AHMAD FARID)
- Drafting guidelines for TBI rehabilitation is underway.

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## Details of Webinar hosted by WFNS – Neurorehabilitation & Reconstruction Neurosurgery Committee

S.No.	Date	Society	Speakers	Topic
1	09.07.2020	WFNS Neurorehabilitation & Reconstruction Neurosurgery Committee	Dr. Maximillia Mehdorn, Germany	Limitations of Stabilization of Spine - Risk Preventions
			Dr. Atul Goel, India	Chiari malformation and syringomyelia - Atlantoaxial instability is the cause
			Prof. Massimiliano Visocchi, Italy	Craniovertebral junction 360-degree reconstruction
			Dr. Shashank Sharad Kale, India	Total Subaxial Cervical Spine Reconstruction
2	11.08.2020	Joint Meeting of WFNS-AASNS	Prof. Angelo Lavano, Italy	Technological advances in Spinal Cord Stimulation for Pain
			Dr. Girish Menon R, India	Rehabilitation following Epilepsy Surgery
			Dr. John Solomon M, India	Rehabilitation following TBI
			Dr. Ng Yee Sien, Singapore	Common Challenges in Rehabilitation of Traumatic Brain Injury
3	08.09.2020	Joint Meeting of WFNS-AASNS	Dr. Giovanni Broggi, Italy	Present & future of DBS for neurological diseases
			Dr. Achmad Fahmi, Indonesia	The future of stereotactic brain lesioning for Parkinson's disease in developing countries
			Dr. Suparna Gangopadhyay, India	Early rehabilitation - A precursor for successful outcome
4	22.09.2020	Joint Meeting of WFNS-AASNS	Prof. Franco Servadei, Italy	Do we have alternatives to cranial decompression to control refractory ICP?
			Dr. B K Misra, India	Decompressive Craniotomy : Our Experience
			Prof. Corrado Iaccarino, Italy	Report Consensus Conference on Cranioplasty (C3) : Update on Evidence
5	20.10.2020	Joint Meeting of WFNS-AASNS	Prof. Henry W. S. Schroeder, Germany	Skull Base Reconstruction after Endoscopic Endonasal Tumor Surgery
			Prof. Chandrashekhar Deopujari, India	Transcranial Repair of Anterior Skull Base
			Dr. Brindha Shivalingam, Australia	Managing CSF leak after Lateral and Posterior Fossa Skull Base Surgery

6	05.11.2020	WFNS Neurorehabilitation & Reconstruction Neurosurgery Committee	Dominic Thompson, UK	Paediatric Spine - Tales of the Unespected
			Alessandro Olivi, Italy	The acute treatment of cavernous angiomas of the brainstem with incoming hemorrhages
			Maurizio Fornari, Italy	Anterior and posterior surgery for C2 anterior degenerative subluxation
			Duccio Boscherini, Switzerland	Application of Robot Mazor X Stealth Edition in a challenging iliac screw positioning procedure where high tech beats conventional procedure
			Massimiliano Visocchi, Italy	Six level cervico thoracic spine circumferential demolition and reconstruction in chordoma
			Giampiero Tamburrini, Italy	Congenital giant hemorrhagic lesion in a neonate
			Giuseppe Barbagallo, Italy	Posterior C1 - C2 fixation : tips and tricks for a bloodless surgery
			Francesco Doglietto, Italy	The challenge of clival reconstruction in endoscopic skull base surgery: present scenario and future perspectives
7	24.11.2020	Joint Meeting of WFNS-AASNS	Prof. Russell J Andrews, USA	Nanotechniques for Neuro-repair
			Prof. Andres M Rubiano, Colombia	Global Perspective of Neurotrauma rehabilitation: Present and Future
			Dr. Anupam Gupta, India	Challenges of Urinary Bladder Rehabilitation after Neurotrauma
8	17.12.2020	WFNS Neurorehabilitation & Reconstruction Neurosurgery Committee	Atul Goel, India	Chairi Formation - Atlantoaxial Instability is the cause and Atlantoaxial Stabilization is the treatment
			Pasquale de Bonis, Italy	Chairi & CSF/Venous Dynamics Perspectives
			Chenlong Liao, China	Chairi and Basilar Invagination
			Luca Massimi, Italy	Chairi and Hydrocephalus
			Maurizio Fornari, Italy	Chairi with and without Syringomyelia : Which treatment ?
			Corlize Stein, South Africa	Duraplasty in Chairi : To open the Dura or not ?
			Massimiliano Visocchi, Italy	Chairi malformation : State of the Art
			Laura Valentini, Italy	Chairi and Syringomyelia : Neurological Institute Experience & International Recommendations
			Gail Rousseau, USA	Spinal Dysraphism, Folate Fortification and Neurosurgery

9	25.01.2021	WFNS Neurorehabilitation & Reconstruction Neurosurgery Committee	H Maximilliam Mehdorn, Germany	Need of Neurorehabilitation
			Ruth Marshall, Australia	Neurological Rehabilitation in the time of COVID 19
			Achal Sharma, India	Psychiatry disability after head injuries and it's rehabilitation
			Yee Yiy Cheng, Malaysia	Neurorehabilitation - A Neurosurgical Nurse Perspective
10	28.01.2021	WFNS Neurorehabilitation & Reconstruction Neurosurgery Committee	Atul Goel, India	NOVEL STRATEGY FOR RADICAL SURGERY FOR LOW GRADE GLIOMAS
			Alessandro Olivi, Italy	RECONSTRUCTIVE SURGICAL CHALLENGES IN THE TREATMENT OF PARASAGITTAL AND CONVEXITY MENINGIOMAS
			V D Sinha, India	DTI AS A LANDMARK TOOL FOR EXCISION OF DEEP NEURAXIAL TUMOURS
			Miguel Arraez, Spain	SURGICAL TREATMENT OF BRAINSTEM TUMORS: THE CONCEPT OF SAFE ENTRY ZONE
			Vincenzo Esposito, Italy	A MODIFIED TRANSCALLOSAL APPROACH FOR MICROSURGICAL REMOVAL OF THIRD VENTRICLE TUMORS: THE TRANSGENUAL ROUTE
			Carmelo Sturiale, Italy	MINIPISTEMONAL AND LATERAL SUPRAORBITAL APPROACHES FOR UNRUPTURED ANTERIOR CIRCULATION ANEURYSMS: MINIINVASIVENESS AND RECONSTRUCTION PROACTIVATION
			Sebastian Froelich, France	THE ANTEROLATERAL AND POSTEROLATERAL APPROACHES FOR CCJ TUMORS
			Massimiliano Visocchi, Italy	CONSERVATIVE ANTERIOR APPROACHES FOR CCJ TUMORS
			Alshafai Nabeel, Saudia Arabia	CCJ: LESS IS MORE ?
			Peul C Wilco, Netherlands	R0 OR R1-R2 RESECTION FOR AXIAL CHORDOMA AND SARCOMA. SACRIFICE OR PRESERVE?
			Giuseppe M Della Pepa, Italy	INTEGRATED MULTIMODAL INTRAOPERATIVE ECOGRAPHIC TECHNIQUES: NEW SCENARIOS FOR MINIMALLY INVASIVE NEUROSURGERY

11	25.02.2021	WFNS Neurorehabilitation & Reconstruction Neurosurgery Committee	Atul Goel - Mumbai, India	GLIOMA SURGERY: FROM THE ORIGINS TO THE SURGICAL PRACTICE
			Alessandro Olivi - Rome, Italy	INTRAVENTRICULAR TUMORS : SURGICAL STRATEGIES
			Iype Cherian - Karad, India	CISTERNOSTOMY IN BRAIN TRAUMA : FROM THE CADAVER – LAB LESSONS TO SURGICAL NUANCES
			Luis A B Botha - Curitiba, Brazil	TAILORING SURGICAL APPROACHES TO CVJ MENINGIOMAS : FROM THE LAB TO OR
			Andrea Talacchi - Rome, Italy	HANDS ON EXPERIMENTAL SURGICAL APPROACHES TO THE ANTEROLATERAL SKULL-BASE
			Paolo Cappabianca - Napoli, Italy	ENDOSCOPIC TRANSNASAL APPROACH TO THE SKULL BASE : FROM THE ORIGINS TO THE FUTURE
			Pasquale Ciappetta - Rome, Italy	PRECUNEAL APPROACHES TO THE VENTRICULAR TRIGONUM : FROM THE CADAVER LAB TO THE OPERATING THEATRE
			Massimiliano Visocchi - Rome, Italy	CADAVER LAB INVESTIGATIONS ON CVJ SURGICAL DOMAINS
			Francesco Signorelli - Rome, Italy	360° APPROACHES TO THE CVJ IN A CADAVERIC LABORATORY SETTING : HISTORICAL INSIGHTS, CURRENT AND FUTURE PERSPECTIVES IN A COMPARATIVE STUDY
			Ivon G Valcarcel - Barcelona, Spain	THE PATHWAY TO FORAMEN OVALE PERCUTANEOUS APPROACHES IN TRIGEMINAL NEURALGIA : NEW PERSPECTIVES



# WORLD FEDERATION OF NEUROSURGICAL SOCIETIES

**Neurorehabilitation & Reconstruction Neurosurgery Committee & Neurotrauma Committee**  
in conjunction with



## Asian Australasian Society of Neurological Surgeons

60% of the world's neurosurgeons caring for 60% of the world's population



Tuesday  
22nd Sept., 2020

invites you to join  
**LIVE WEBINAR**

09.30 am GMT  
03.00 pm IST

### DISTINGUISHED SPEAKERS



**Prof. Franco Servadei**  
President, World Federation of Neurosurgical Societies (WFNS)  
Dept. of Neurosurgery  
Humanitas University & Research Hospital,  
Milano – Italy

Do we have alternatives to cranial decompression to control refractory ICP?



**Prof. Basant K. Misra**  
1<sup>st</sup> Vice President WFNS  
Honorary President AASNS  
President WF5BS  
Head, Department of Neurosurgery & Gamma Knife Radiosurgery  
Hinduja National Hospital,  
Mumbai – India

Decompressive Craniotomy :  
Our Experience



**Prof. Corrado Iaccarino**  
Member Neurotraumatology Committee WFNS  
Department of Biomedical, Metabolic and Neural Sciences  
University Hospital of Modena –  
Neurosurgery Unit  
Modena – Italy

Report Consensus Conference on Cranioplasty (C3) :  
Update on Evidence

### THE MODERATORS



**Dr. Tariq Khan**  
Chairman Neurotraumatology Committee WFNS  
Dean, Northwest School of Medicine,  
Peshawar – Pakistan



**Prof. V.D. Sinha**  
Chairman Neurorehabilitation & Reconstruction Neurosurgery Committee WFNS  
Sr. Prof., Dept. of Neurosurgery  
S M S Medical College  
Jaipur – India



**Dr. Amit Chakrabarty**  
Member Neurorehabilitation & Reconstruction Neurosurgery Committee WFNS  
Sr. Consultant Neurosurgeon  
Eternal Hospital  
Jaipur – India

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# WORLD FEDERATION OF NEUROSURGICAL SOCIETIES

NEUROREHABILITATION & RECONSTRUCTION  
NEUROSURGERY COMMITTEE

FROM CADAVER LAB DISSECTION TO OPERATING ROOM  
RECONSTRUCTION

**LIVE WEBINAR**

Date : February the 25th  
Time : 09:00 hrs. CET

Registration Link : <https://us02web.zoom.us/j/84473586294?pwd=a2pHbG5qRXA3ckhvdG1ZVkdpTmZlUT09>

Zoom Webinar ID : 844 7358 6294 Passcode : 352898

### INTRODUCTION

Prof. M. Visocchi

### SPEAKERS



**Atul Goel** h: 9:00  
Mumbai, India  
GLIOMA SURGERY: FROM THE ORIGINS TO THE SURGICAL PRACTICE



**Paolo Cappabianca** h: 9:20  
Napoli, Italy  
ENDOSCOPIC TRANSNASAL APPROACH TO THE SKULL BASE: FROM THE ORIGINS TO THE FUTURE



**Alessandro Olivi** h: 9:40  
Rome, Italy  
INTRAVENTRICULAR TUMORS: SURGICAL STRATEGIES



**Pasquale Ciappetta** h: 10:00  
Rome, Italy  
PRECUNEAL APPROACHES TO THE VENTRICULAR TRIGONUM: FROM THE CADAVER LAB TO THE OPERATING THEATRE



**Iype Cheria** h: 10:20  
Karad, India  
CISTERNOSTOMY IN BRAIN TRAUMA: FROM THE CADAVER-LAB LESSONS TO SURGICAL NUANCES



**Massimiliano Visocchi** h: 10:40  
Rome, Italy  
CADAVER LAB INVESTIGATIONS ON CVJ SURGICAL DOMAINS



**Luis A B Borba** h: 11:00  
Curitiba Brazil  
TAILORING SURGICAL APPROACHES TO CVJ MENINGIOMAS: FROM THE LAB TO OR



**Francesco Signorelli** h: 11:20  
Rome, Italy  
360° APPROACHES TO THE CVJ IN A CADAVERIC LABORATORY SETTING: HISTORICAL INSIGHTS, CURRENT AND FUTURE PERSPECTIVES IN A COMPARATIVE STUDY



**Andrea Talacchi** h: 11:40  
Rome, Italy  
HANDS ON EXPERIMENTAL SURGICAL APPROACHES TO THE ANTEROLATERAL SKULL-BASE



**Ivon G Valcárcel** h: 12:00  
Barcelona, Spain  
THE PATHWAY TO FORAMEN OVALE PERCUTANEOUS APPROACHES IN TRIGEMINAL NEURALGIA: NEW PERSPECTIVES

### PANELISTS



**V. D. Sinha**  
Chairman  
Jaipur, India



**Massimiliano Visocchi**  
Co-Chairman  
Rome, Italy

### MODERATORS



**Francesco Signorelli**  
Rome, Italy



**Alessandro Rapisarda**  
Rome, Italy