

# ◇ Synapse ◇

A detailed 3D illustration of a synapse. A large, light blue, translucent structure represents the presynaptic terminal, containing numerous purple mitochondria and several green, oval-shaped synaptic vesicles. Some vesicles are shown with red and green internal structures. Purple filaments connect these vesicles to the base of the terminal. Below the terminal, a yellow, oval-shaped structure represents the postsynaptic terminal. The background is dark green and black, with faint, glowing outlines of other neurons and axons, suggesting a neural network.

*The official Newsletter of the  
Indian Society of Neuroanaesthesiology and Critical Care  
ISNACC*

*March 2017*

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# From the Secretarial Desk

Dear All ISNACC members,

Greetings from the Secretariat

This year was a very fruitful year. The society has initiated many newer programs. We have started a one-year ISNACC PDF in Neurocritical Care. This year it is starting in four institutes across the country. The PDF Neuroanaesthesia course is also going strong. We had 13 candidates appearing for the exit exam and 11 cleared the examination successfully. This year we have initiated an award for the best outgoing student in PDF Neuroanaesthesia. Another important milestone was acceptance of a 3 year DNB Neuroanaesthesia and Critical care course by the DNB board. Thanks to the efforts put in by previous and present executive body members.

Another important activity of the society is supporting the Neuroanaesthesia CME's in non metro smaller cities. This will help in spreading awareness of Neuroanaesthesia and Neurocritical care among all the doctors and also may be in general public in smaller cities. Other initiatives include best research paper award for the articles published in our journal, starting with distinguished professional service award and distinguished teacher award. The details will be available on the website soon. The society has felt the need for establishing minimum monitoring standards for operations of neurosurgical patients. A committee has been formed to look into this aspect. Hopefully, we should have the initial draft soon.

The journal is going strong. The journal is in the process of indexing with various agencies. Our members are also excelling in their professional life. Getting a B C Roy national award, doing a Ph.D., writing Cochrane reviews, becoming directors of the institutes are all fantastic things. Nowadays, our conferences are well attended. The success of ISNACC2016 & ISNACC2017 is exhilarating. The next conference at Mumbai is also going to be an academic feast. The organizing team has already started their work. The ISNACC is really thriving with the active participation of all the members. We would also like to thank our executive members who finished their term recently for their ideas and support in taking the society forward.

Long live ISNACC,

With Best Regards,



Dr. VJ Ramesh  
Secretary



Dr. M Radhakrishnan  
Treasurer

Share with us your experiences, achievements, or any other story of success!

Send us your thoughts at:  
[isnaccsecretary@gmail.com](mailto:isnaccsecretary@gmail.com)

# Message from ISNACC President

Dear friends,

I would first like to thank all of you for giving me this golden opportunity to serve this prestigious society as president. I would then like to thank the honorable senior members of this society through whose sincere hard work this society has attained its present stellar status both inside and outside our country.

The ISNACC is now affiliated with other internationally acclaimed societies like SNACC, ASNACC and NACCS. Our society has always believed in appreciating the meticulous research work and publications of its members through various awards and research grants. Every year, we provide travel grants to neuro-anesthesiologists with special focus on our younger generation which helps them present their research work at various international platforms. For instance, this is the first time when a team of neuro-anesthesiologists from AIIMS, New Delhi and PGIMER, Chandigarh is presenting a PBLD in the SNACC.

Various PDF courses are also being conducted under the banner of ISNACC. Recently the society has given accreditation to 3 new centers for starting the PDF course in Neuro-anesthesia. A special course on emergency Neuro-critical life support has also been endorsed by this society. The aim of this course will be to train new generations of neuro-anesthesiologists so that they become well equipped for better care of TBI patients. This year, our main focus will be to conduct CMEs in neuro-anesthesia in tier II and tier III cities for better care of neurologically injured patients.

Our society is gaining recognition and expanding its reach every year. With 58 new members joining the family within the last one year itself, I am sure that these are just baby steps in the right direction. I would like to end with an excerpt from Robert Frost's lovely poem that signifies my hopes for this society's future-

The woods are lovely, dark, and deep,

But I have promises to keep,

And miles to go before I sleep,

And miles to go before I sleep.

**Dr. Shobha Purohit**



## Report on Neurotrack (Session on Neurosciences) during the 16<sup>th</sup> World Congress of Anaesthesiologists (WCA 2016) held at Hong Kong

The World Congress of Anaesthesiologists (WCA) 2016 was held at the Hong Kong Convention and Exhibition Centre (HKCEC), located in the heart of Hong Kong Victoria Harbour from 28<sup>th</sup> August to 03<sup>rd</sup> September 2016. It was jointly organized by the Society of Anaesthesiologists of Hong Kong (SAKH) and the World Federation of Societies of Anaesthesiologists (WFSA). The organizing committee of WCA 2016, prepared a comprehensive program to update on latest standards and innovations in anaesthesia, pain medicine and intensive care. The program featured 20 different scientific tracts organized by leaders in each field. Delegates from all over the globe participated in large number in this mega event with representation from India among the top ten countries.

The Neurotrack, i.e. scientific sessions on Neurosciences lasted for four days beginning from 29<sup>th</sup> to 31<sup>st</sup> August 2016 and included various important topics of Neuroanaesthesia, neurocritical care, and neuromonitoring. On 28<sup>th</sup> August, the scientific schedule covered two workshops on 'Neuromonitoring' which included hands-on-stations and interactive case discussion. The workshop on 'Neuromonitoring using somatosensory and motor evoked potentials' was started at 9.30 am. This workshop was organized by Antoun Koht (USA). It included three interactive hands-on-stations on (a) Somatosensory evoked potentials by Ben Olesnicky (Australia) and Christoph Schubert (USA), (b) Motor evoked potential by Adam Rehak (Australia) and Leslie Jameson (USA) and (c) Interpretation of evoked potential signals using computer simulation by Ljuba Stojilkovic (USA). Another workshop on 'Neuromonitoring using auditory evoked potentials, electromyography, transcranial Doppler and cerebral oximetry' was conducted during the post lunch session. It was also organized by Antoun Koht (USA). Three interactive hands-on stations were conducted: (1) Auditory evoked potentials and electromyography, by Lawrence Wierzbowski (USA) and Daniel Janik (USA), (2) Transcranial Doppler, by Deepak Sharma (USA) and Jee Jian See (Singapore) and (3) Cerebral Oximetry, by Sergio Bergese (USA) and John Bebawy (USA).

On 29<sup>th</sup> Sept 2016, the session on minimally invasive spine surgery started at 8.30 am, which was chaired by Kate Leslie (Australia). Andrew Morokoff (Australia) delivered a lecture on 'Major spine surgery- why and how?' 'Anaesthesia and pain management for major spine surgery' was discussed by Kate Leslie (Australia) and Jeremy Lieberman (USA) talked on 'Neuromonitoring during major spinal surgery.' A session on 'Postoperative delirium and postoperative cognitive dysfunction (POCD);' was started with Nomenclature for POCD by Liss Evered (Australia). Zhongcong Xie (USA) discussed about the 'Mechanistic studies of postoperative delirium and POCD.' Wen Ouyang (China) talked on 'Preservatives of the energy level by b-hydroxybutyrate improves postoperative cognitive decline' and Daqing Ma (UK) elaborated on 'Postoperative delirium and POCD: mechanism and intervention. This session was chaired by Zhongcong Xie (USA).

Next session was dedicated to "Anaesthetic effect on the brain: Electroencephalography (EEG), consciousness, delirium, cognitive dysfunction" which was chaired by Kristin Engelhard (Germany). Deepak Sharma (USA) talked in detail about anaesthetic effects on CBF, CMR and ICP. Eberhard Kochs (Germany) highlighted on 'Functional connectivity and information transfer during anaesthesia and in coma' while Lis Evered (Australia) described 'Role of anaesthetic agents on perioperative cognitive disorders'.

Post-lunch session began with session on "Neuromonitoring-How I do it?" chaired by Antoun Koht (USA) who also delivered lecture on 'Anaesthesia during neurophysiological monitoring'. Masahiko Kawaguchi (Japan) talked on 'Controversies with the use of muscle relaxants during motor evoked potentials and EMG.' 'Monitoring during carotid endarterectomy' was discussed by Jee Jian See (Singapore). The last session of the day was dedicated to "Training in Neuroanaesthesia (global perspective)" which was chaired by Masahiko Kawaguchi (Japan). The co-ordinator for the session, Deepak Sharma (USA), gave a brief introduction about the topic and it was followed by discussion of North America perspectives by Pirjo Manninen (Canada), Indian/Asian perspectives by Hari Hara Dash (India) and European perspectives by Christian Werner (Germany). Finally, Solpicio Soriano (USA) discussed the Paediatric Neuroanaesthesia perspectives.

## Report on Neurotrack (Session on Neurosciences) during the 16<sup>th</sup> World Congress of Anaesthesiologists (WCA 2016) held at Hong Kong

Next day (30<sup>th</sup> Sept) the session on neurosciences started with “Awake craniotomy: for seizure surgery and tumor surgery” chaired by Hari Hara Dash (India). This session had four interesting lectures dedicated to awake craniotomy. ‘History and indications for awake craniotomy’ was discussed by Adrian Gelb (USA), which was followed by a lecture on ‘Anesthetic techniques: scalp block, airway management and monitoring’ by Ari Katila (Finland). Pirjo Manninen (Canada) talked about ‘Neuropsychological/functional and cortical mapping during awake craniotomy’ it followed a lecture on ‘Paediatric awake craniotomy’ by Girija Prasad Rath (India). There was in depth discussion among the faculty and delegates on these important and relevant topic.

During afternoon session, there were two Pro-Con debate sessions on “Anaesthesia for craniotomy; what works and what doesn’t?” The first session was chaired by Piyush Patel (USA). The debates were on ‘TIVA is better than volatiles’ and ‘Failure to extubate is a failure in anaesthesia.’ The second Pro-Con debate session included debates on ‘A central line is completely unnecessary for a routine craniotomy’ and ‘Hypertonic saline is better than mannitol’ This session was chaired by Cor Kalman (Netherlands). The last session of the day was designated to “Standardized endpoints for perioperative medicine (StEP)” and “Core outcome measures in perioperative and anaesthesia care (COMPAC). In this session, Paul Myles (Australia) and Mike Grocott (United Kingdom) elaborated on ‘Standardized endpoints- solution to barriers in research’ while Ramani Moonesinghe (United Kingdom) and Mike Grocott (United Kingdom) emphasized on “Patient involvement in formulating standardized endpoint’.

On 31<sup>st</sup> August morning, a session on “Traumatic brain injury management in 2016 and beyond” chaired by Martin Smith (United Kingdom). The first lecture on ‘Intracranial pressure monitoring: standard of care or optional extra?’ was delivered by Andrew Kofke (USA). Thomas Lew (Singapore) discussed about ‘A failure in translation: update on recent clinical trials of neuroprotective strategies’ and Martin Smith (United Kingdom) discussed about ‘Cardiorespiratory complications: management and outcome effects.

Post lunch there was a session on “Perioperative stroke” chaired by Deepak Sharma (USA). This session included three talks on ‘Perioperative stroke – more common than you think’, ‘Hemorrhagic stroke – implications to the anaesthesiologists’ and ‘Stroke after cardiac surgery’. The day ended with a session on “Endovascular treatment for stroke: the role of the anaesthesiologist” chaired by Matthew Chan (Hong Kong). The three interesting topics of this session were ‘What is new in endovascular treatment for acute stroke?’ by Simon Yu (Hongkong), “optimal anaesthetic treatment: SNACC consensus statement by Pekka Talke (USA) and ‘General anaesthesia vs sedation for endovascular treatment by Mads Rasmussen (Denmark).

Besides the lectures, Pro-Con debates and panel discussions there was e-poster session during which delegates from all over the world presented their research work in the field of neurosciences. A total of seventy posters were displayed and discussed during the e-poster session out of which 15 were from India presented by delegates (ISNACC members) from New Delhi (Girija P. Rath and Gyaninder P. Singh), Gurgaon (Sujoy Banik), Maharashtra (Hitesh Mahajan, Vikas Karne), Varanasi (LD Mishra) to name a few. Other participants from India included S. L. Dsouza and D. Vadivel (Mumbai), M Chadha, B. Gupta, P. B. Patel, S. K. Rajak, and P. Tiwari.

Overall the WCA 2016 contributed one of the well-organised Neurotracks during a World congress. Everyone shared enhanced expectations during the upcoming WCA 2020, to be held at Prague.

*Dr. Gyaninder Pal Singh*  
*Associate Professor*  
*Neuroanaesthesiology & Critical Care, AIIMS, New Delhi*



# Indian society of neuroanaesthesiology and critical care (ISNACC 2017) conference report

The 18<sup>th</sup> Annual Conference of Indian Society of Neuroanaesthesiology and Critical Care (ISNACC 2017) was organized at the Bhargava Auditorium, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, India. It was an amalgamated effort by Prof. Nidhi Panda (Organizing secretary) and Dr. Hemant Bhagat (Co-Organising secretary) who conducted this conference in collaboration with Department of Anaesthesia and Intensive Care, PGIMER, Chandigarh.

With an ever changing intricacy and ramifications in Neuroanaesthesia and Neurocritical Care, and its rapid progression, the theme of this year's conference was "Challenges in Neuroanaesthesia with a focus on the Future." Prominent international faculty and notable national faculty pondered their knowledge towards the progress in the field of Neuroanaesthesia and Neurocritical care during the conference which was attended by more than 500 delegates from around the globe.

The three days of this academic extravaganza started on 24<sup>th</sup> February 2017. On Day 1, training course and workshop was conducted on Multimodal Neuromonitoring, Ultrasound and Echocardiography in Neuroanaesthesia and Difficult airway management which also included hands-on training for which around 130 delegates participated and made these workshops successful.

Simultaneously, the scientific sessions began with "Emergency in Neuroanaesthesia", under the following topics 'Pattern and categorisation of neurosurgical emergencies', Trigemino-cardiac Reflex: Mechanism and clinical implications', Management of emergency situations in elective Neurosurgery', 'Emergency in Neurosurgical Suite' delivered by Dr. D. Kulkarni, Dr. Gyanendra Singh, Dr. Ratan Chelani and Dr. Saurabh Anand respectively. The Later session included "Pros and Cons on Use of Desflurane in Neuroanaesthesia" by Dr. Smitha Sharma and Dr. Shashi Srivatsava. and Panel Discussion on "Does specialized training in neuroanaesthesia makes a difference to patient outcome" which was moderated by Dr. Joseph Monterio. After the tea break, a session on "Neurocritical care" with the lectures on 'Goals of management of critically ill neurosurgical patients',

Ventilatory strategies for Neurosurgical patients', Pain management in neurocritical care' and 'Is paediatric neurocritical care different from adults?' were presented by Dr. Jaya Wanchoo, Dr. R.K.Dubey, Dr. Mritunjay Verma and Dr. Ponniah respectively. The session on "Fluid therapy" included 'Colloids in neurosurgical patients', 'Does balanced intravenous fluids impact outcome in neurosurgical patients' and 'Goal-directed fluid management in patients with TBI' which were delivered by Dr. Bibukalyani Das, Dr. Venkatesh HK and Dr. D P Samaddar respectively.

Post lunch sessions included Hariwir Singh Oration by Dr. Ravi Mahajan on 'Patients Safety: Have we been barking up the wrong tree?'. Furthermore, this conference highlighted various video presentations on "Scalp block" by Dr. Irene Osborn, "Anaesthesia for DBS" by Dr. Rajashree Deopujari, "Cervical spine movement during Intubation" by Dr. Amlan Swain and "ECG guided placement of the tip of central venous cannula" by Dr. Banashree Mandal. To close the day the final session was concluded by Dr. Kanchan K Mukherjee who associated Mahabharata with Neurosciences in his lecture on 'Hiranyagarbha to Hypothalamus: A journey from mythology to Neuroscience' which piqued the interest of many delegates. It was followed by General Body meeting among executive members of ISNACC where Dr. Shobha Purohit from Jaipur was elected as new ISNACC president. Also, Dr. Prasanna Bidkar from Puducherry, Dr. Arvind Chaturvedi from new Delhi, Dr. Hemangi Karnik from Mumbai and Dr. Vasudha Singhal from Gurgaon became the new ISNACC executive members.

The scientific programme on Day 2 commenced with the session on "Traumatic brain injury" which included 'Cerebral autoregulation in TBI: Where do we stand', 'Biomarkers and Prognostication in TBI' and 'What can impact outcome in TBI: Evidence to clinical practice' which were delivered by eminent professors Dr. Adrian Gelb, Dr. GS Umamaheshwara Rao and Dr. Parmod Bithal respectively. G R Gode Oration was delivered by Dr. G Parameshwara on 'Extra-cranial complications in head injury – What is new'. Later session included "Paediatric neuroanaesthesia" focussing on 'Challenges in Paediatric Neurosurgery', 'Fluid management in Infants and children during intracranial surgery', 'Haemoglobin levels for transfusion trigger in paediatric

# Indian society of neuroanaesthesiology and critical care (ISNACC 2017) conference report

neurosurgical patients', and 'Anaesthetic concerns and management in children with craniopharyngioma' which were delivered by Dr. Pragati Ganjoo, Dr. Hemangi Karnik, Dr. VJ Ramesh and Dr. Srilata respectively. Another interesting Pro-Con session was debated upon by Dr. Swagata Tripathy and Dr. Monika Tandon on 'Invasive vs Non-invasive ICP monitoring'. The session on Stroke included some of the recent scenarios on 'Recognition and Management of Stroke', 'Metabolic monitoring tools in patients with stroke' and 'Current trends in mechanical thrombectomy in patients with acute ischaemic stroke' which were delivered by Dr. Aastha Takkar Kapila, Dr. Prabu Anandaraj, and Dr. Vivek Gupta respectively. Post lunch session on "Challenges in Neuroanaesthesia" included 'Awareness in Neuroanaesthesia', 'The use of EEG in Neuroanaesthesia', 'Management of intraoperative brain bulge despite standard care', and 'Management of Spinal cord Injury' which were aptly discussed by Dr. Rahul Bajekar, Dr. Lorenzo Dimple, Dr. Amit Jain and Dr. Neeraj Kumar respectively. The video session of the day included 'ICP monitoring' by Dr. Radhakrishnan, 'Intraoperative Electrophysiological Monitoring' by Dr. Ashok Jharyal, 'Intraoperative Electrocorticography' during Epilepsy Surgery by Dr. Pijo Manninen, and 'Cerebral Microdialysis' by Dr. Girija Prasad Rath as well as 'Brain Tissue Oxygen Tension' by Dr. Shobana Ranjan. The final session of the day included interesting Case scenarios on 'Pregnancy and SAH' and 'Odontoid fracture in a patient with Aortic Stenosis' presented by Dr. Kiran Jangra and Dr. Ankur Luthra in Problem-based Learning and Discussion. The inaugural function followed later which was presided over by His Excellency Acharya Dev Vrat, Governor of Himachal Pradesh who was invited as Chief Guest for the occasion.

The Final Day of the Conference was exclusively meant for the International Symposium on Aneurysmal SAH which began with an Introductory keynote by Dr. Hemant Bhagat. It was followed by 'Epidemiology and Pathophysiology of SAH' which was delivered by Dr. Suchitra Chakravarti and 'Biomarkers of SAH' were discussed by Dr. Akhilesh Pandey. SNACC Panel then emphasized upon 'Anaesthetic management', 'Neuroprotection', and 'ICU management' which were delivered by the eminent

International faculty Dr. Deepak Sharma, Dr. David Warner and Dr. Mike Souter from USA, respectively.

In the later half, Malathi Memorial Oration was delivered by Dr. MTV Chan who spoke on the current role of Statins in Aneurysmal SAH. After the Oration, six papers were presented by residents from various institutes across India being judged by Dr. Hilary Grocott and Dr. Adrian Gelb for the eminent Prof YS Verma award. The session on Systemic manifestations of SAH included 'Cardiovascular manifestations', and 'Fluid and electrolyte management with aneurysmal SAH' which were delivered by Dr. KS Manikandan, and Dr. Peter Farling respectively which was followed by a Panel Discussion on "Clipping versus Coiling of Intracerebral Aneurysm: are we still at cross roads!" moderated by Dr. Ashish Pathak and the Panelists were Dr. Adrian Gelb, Dr. N Khandelwal, Dr. M K Tiwari and Dr. C E Deopujari. The session on the Post-operative course included 'Management of Cerebral Vasospasm', and 'Outcome and rehabilitation of patients following Aneurysmal SAH' which were presented by Dr. HH Dash, and Dr. Dhaval Shukla respectively. To conclude the scientific program, Dr. Manjul Tripathy delivered an interesting talk on "Cricket and Neurosciences".

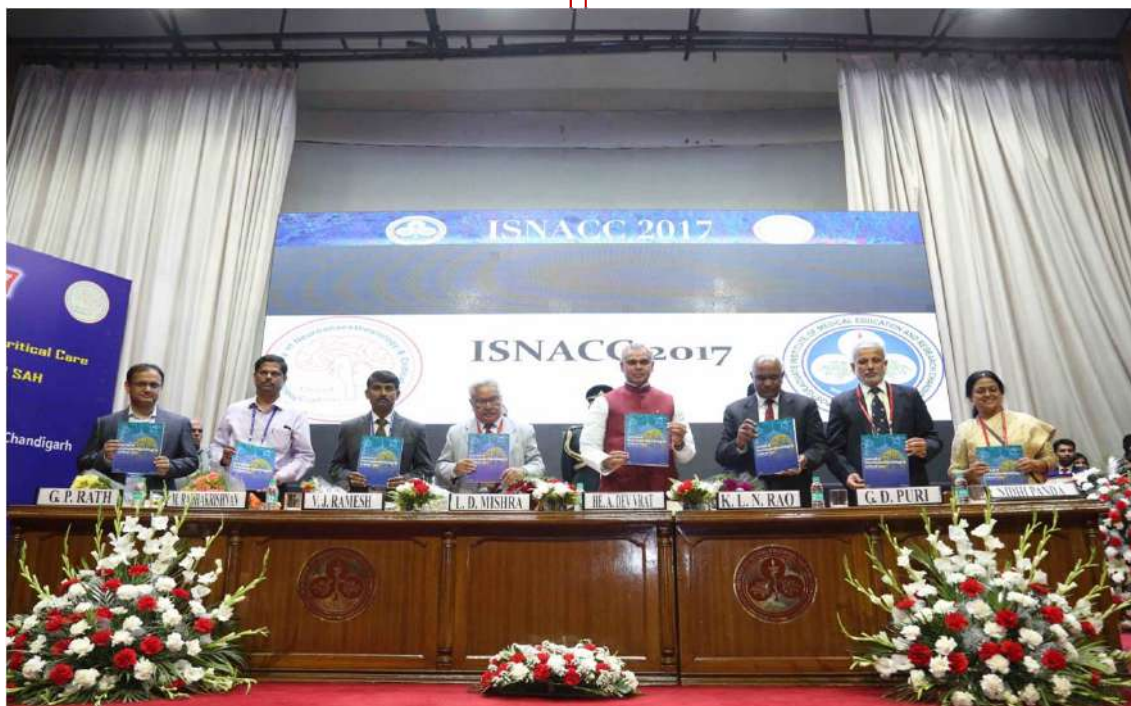
The conference was not only a scientific extravaganza but an audio-visual treat to all the delegates with the Residents of Department of Anaesthesia performing on Bollywood dance numbers which were cherished by all, and to wind up the cultural activities on day 1, the MORPHINE band performed with heart and soul and rejuvenated everyone. On Day 2, the Inaugural function was followed by professional Dances 'Kumaon' (dance form of Uttarakhand), Nati (dance form of Himachal Pradesh) and Gatka (Martial art form of Punjab) which was followed by well-arranged and well decorated dazzling Banquet dinner.

There were 64 poster presentations which included both case reports and Research papers from all over the world on first 2 days of the conference. This was followed by Valedictory Function and prize distribution to all the winners including Poster presentation and Quiz. Prof YS Verma award for the best research paper was awarded to Dr Shalvi Mahajan from PGIMER, Chandigarh.

# Indian society of neuroanaesthesiology and critical care (ISNACC 2017) conference report

The Organising secretary and Co-Organising secretary thanked the organizing team for making the conference a successful venture and a mega event which was very much appreciated by all the delegates and participating national and international faculty.

**Division of Neuro-Anaesthesia  
Department of Anaesthesia and Intensive  
care, PGIMER, Chandigarh**



## ISNACC On Social Media

ISNACC is now on face book and Twitter

The links are –



<https://www.facebook.com/ISNACC-408536015961829/?ref=ts&fref=ts>



<https://mobile.twitter.com/ISNACCINDIA>

Manuscripts invited for



Submission site: [www.journalonweb.com/jnacc](http://www.journalonweb.com/jnacc)

# Joining the Camp



LМК - 51	Ankur khandelwal
LМК - 52	Monica Kohli
LMM-46	Asad Mahmood
LMD - 30	Josemine Davis
LML -11	Nandini Nitin Londhe
LML - 12	Karen Ruby Lionel
LMH - 10	Ajay Prasad Hrishi
LМК - 53	Chandrasekaran Kathirvelu
LMB - 49	Ratul Basu
LMB - 50	Barkha Bindu
LMG - 41	Mudit Garg
LMP - 49	Pakaj B Patil
LMM -47	Madhura Maiya
LMA - 21	Jissmon V Abraham
LMD - 31	Ritesh Debroy

# Joining the Camp



LMS - 93	Seham Syeda
LMS - 92	Bharath S
LMR - 42	Hirok Roy
LMP - 50	Amitesh Kumar Pandey
LML - 13	Manjunath L
LMJ - 19	Ruchi Jain
LMB - 52	Prashanth kumar Behara
LMD - 32	Ankur Dhanda
LMM - 49	Harish Mallapura Maheswarappa

# Joining the Camp



LMN - 14	Roneeta Nandi
LMG - 42	Sumit Gupta
LMJ - 18	Shiwani Jain
LMN - 15	Hitesh Gurmukhdas Nathani
LMR - 40	Sangeetha RP
LMR - 41	Hetal Dirajlal Rathod
LMM - 48	Shyamal Maity
LMB - 51	Vijaykumar Boddupalli
LMA - 22	Budi Vijay Anand
LMS - 91	Siddharth Srinivas C
LMS - 94	Shwethashri K.R
LMS - 95	Debabrata Sanyal
LMM - 50	Dheeraj Masapu
LMK - 54	Neelakshi Kalita
LML - 14	Ziyana Liyakath
LMV - 12	Pavithra Venkateswaran
LMR - 43	Ravitej
LMV - 11	Lulu Fatema Vali

# Congratulations!!!



*The following candidates cleared the DM examinations conducted in Dec/Jan 2017.*

*PGIMER, Chandigarh*

- 1. Dr. Narender Kalaria*
- 2. Dr. Shiv Lal Soni*
- 3. Dr. Rajeev Chauhan*

*SCTIMST, Trivandrum*

- 1. Dr. Nilima RM*
- 2. Dr. Soumya M*

*Dr. Hemanshu Prabhakar, Professor, All India Institute of Medical Sciences, New Delhi, successfully defended his PhD title in January 2016. His title was “Mannitol versus Hypertonic Saline for brain relaxation in patients undergoing craniotomy - A systematic review.”*

# Congratulations!!!



The following candidates cleared the ISNACC PDF – Neuroanaesthesia exit examinations held in January 2017.

<b>Candidates</b>	<b>Hospital</b>
Dr Shiwani Jain	<i>Fortis Hospital, Noida</i>
Dr Shubham Garg	<i>Fortis Hospital, Noida</i>
Dr Sumit Gupta	<i>Max hospital, saket</i>
Dr. Ritesh Debroy	<i>Max hospital, saket</i>
Dr. Pankaj Balakrishna Patil	<i>Fortis Memorial research institute, Gurgaon</i>
Dr Roneeta Nandi	<i>Fortis Memorial research institute, Gurgaon</i>
Dr Muthukumaran R	<i>Park Clinic, Kolkata</i>
Dr. Nabanita Ghosh	<i>Institute of NeuroSciences, Kolkata</i>
Dr. Khushboo Dubey	<i>Kokilaben Dhirubhai Ambani hospital and medical research institute, Mumbai</i>
Dr. Shivani Bakshi	<i>Kokilaben Dhirubhai Ambani hospital and medical research institute, Mumbai</i>
Dr. Joanna Samantha Rodrigues	<i>P D Hinduja Hospital and medical research centre, Mumbai</i>

# Congratulations!!!



*Dr G S Umamaheswara Rao on receiving Dr B C Roy National award for "Eminent Medical Teacher" (standing second from left)*



# Announcements

## Travel/ Visit Grant

ISNACC provides Travel/Visit Grant to suitable candidates to either visit one of the premier Neurosciences (Neuroanaesthesiology) Centers abroad or to present scientific paper(s) in an International forum. The last date for submission of application will be July 31 and December 31. A fixed sum of Rs.25,000/- ( 6 candidates per year) will be awarded to candidates who must fulfill the following criteria -

- Should be a life-member for more than a year at the time of application.
- He/she should not have availed the grant from ISNACC in the previous 2 years.
- Must submit the abstract of the scientific work at the time of application.
- Must submit the attendance and participation/presentation certificate within 15 days of attending the conference

## Research Grant

ISNACC awards research grant to suitable candidates to carry out clinical research in the field of Neuroanaesthesia and Neurocritical Care in India. A fixed sum of Rs.50,000/- [2 candidates per year] will be awarded to candidates who fulfill the following criteria –

- Should be a life-member for more than a year at the time of application.
- He/she should not have availed the grant from ISNACC in previous 2 years
- Should provide a copy of Ethics Committee approval and the protocol (both soft and hard copy)
- The candidate must provide the estimated expenditure details along with the application.
- Financial assistance from other sources must be disclosed
- The proposal would be scrutinized by the education committee of ISNACC and its decision would be final.
- Should complete the study within 2 years of obtaining the grant and must produce the statement of expenditure. Should present the results of the research in the Annual conference of ISNACC in the same year as completion of study or within one year of completing the study.
- Should acknowledge ISNACC as the funding source in all forms of presentation / publication.
- Last date for submission of application is December 31.

Application form may be downloaded from the website ([www.isnacc.org](http://www.isnacc.org))

Contact Secretariat for assistance

Email: [isnaccsecretary@gmail.com](mailto:isnaccsecretary@gmail.com)

# Announcements

## Educational Grant

*ISNACC society is pleased to announce a grant of Rs 25,000 to ISNACC members who conduct CME programme in neuroanaesthesia and neurocritical care in tier II cities. Two such grants will be awarded every year.*

Application form may be downloaded from the website ([www.isnacc.org](http://www.isnacc.org))

Contact Secretariat for assistance

Email: [isnaccsecretary@gmail.com](mailto:isnaccsecretary@gmail.com)

# Books



**Manual of  
Neuroanesthesia**  
**The Essentials**

**Hemanshu Prabhakar**  
**Charu Mahajan • Indu Kapoor**



**CRC Press**  
Taylor & Francis Group

# Office Bearers 2017

President	Shobha Purohit
President Elect	Shashi Shrivastava
Vice President	H K Venkatesh
Secretary	VJ Ramesh
Treasurer	M Radhakrishnan
Editor-in-Chief	Parmod K Bithal
Executive Members	Arvind Chaturvedi Vasudha Singhal Hemangi Karnik RK Dubey Jayati Ghosh Prasanna B



# Mark your calendar for future meets



Date: January 19-21, 2018

Venue: The Leela Mumbai

Integrating Technology; Enhancing Outcomes

**ISNACC 2018**  
MUMBAI

## 19<sup>th</sup> Annual Conference of the Indian Society of Neuroanaesthesiology and Critical Care

HIGHLIGHT OF  
THE MEETING:  
**International  
Symposium on  
Neurotrauma**

### Join us in Mumbai for the 2018 ISNACC Annual Conference

Interactive Pre-conference Workshops and  
events will address:

- NEUROSIMULATION
- ENLS
- MULTIMODALITY NEURO MONITORING

Exciting scientific program providing a perfect  
blend of advances in basic research and  
technology, upto-date lectures, debates and  
other presentations follow.

#### Contact Us:

ORGANISING SECRETARY

R. Deopujari

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Mobile: +91 9821116771

EVENT MANAGER

Vama Events Pvt. Ltd.

Email: [vamahospitality@hotmail.com](mailto:vamahospitality@hotmail.com)

[www.isnacc2018.com](http://www.isnacc2018.com)



Mark your calendar for future meets

**Department of Neuroanaesthesia and Neurocritical Care  
NIMHANS, Bengaluru**



**Presents  
NIMHANS Cerebral Monitoring Symposium  
(NCMS 2017)**

**Date: 9<sup>th</sup> July 2017**

**Venue: 4th Floor, Dr M V Govindaswamy Building, NIMHANS**

**HIGHLIGHTS**

- Full day programme covering EEG, Evoked potentials, Transcranial Doppler, Cerebral oximetry, ICP, Depth of consciousness and Imaging
- Video demonstration of each monitoring technique
- Practical aspects of monitoring and interpretation
- Walk through various monitoring stations



**Contact:  
Organizing Secretary,  
NIMHANS Cerebral Monitoring Symposium  
Department of Neuroanaesthesia,  
Faculty Block, 3rd Floor, NIMHANS, Bengaluru  
Email: [nimhanscme@gmail.com](mailto:nimhanscme@gmail.com)  
Phone: 080-26995415**

