

# REPORT

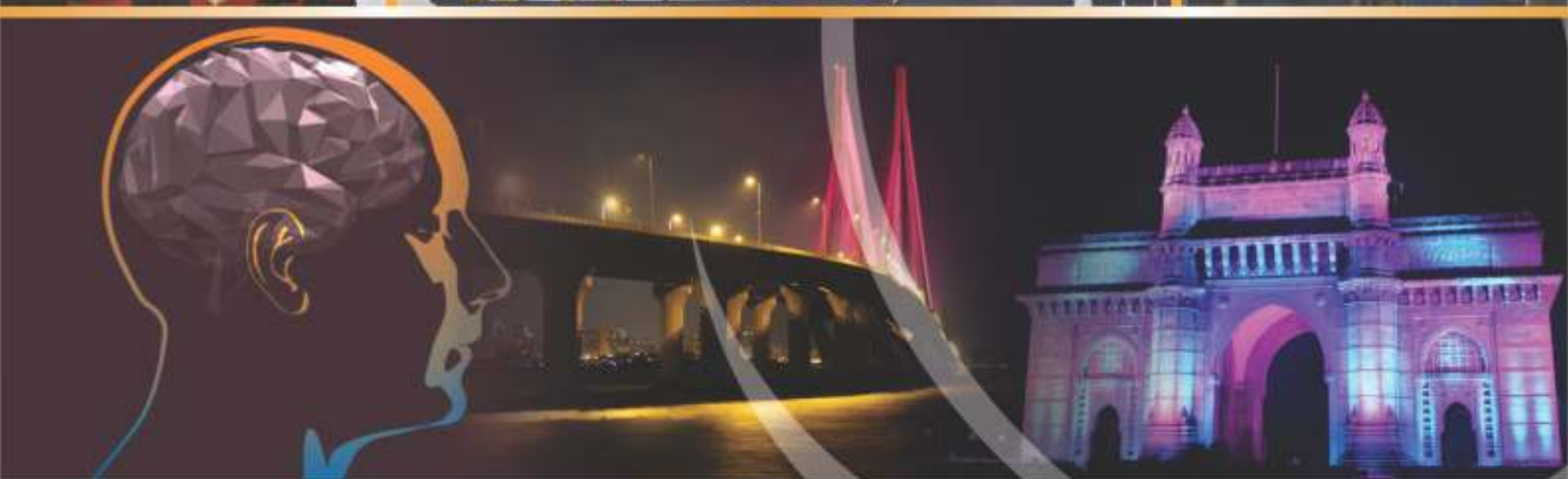


## 10<sup>TH</sup> WORLD CONGRESS FOR **NEUROREHABILITATION**

FROM NEUROTECHNOLOGIES  
TO COMMUNITY CARE

7-10 February, 2018

Renaissance Mumbai Convention Centre Hotel,  
Powai, Mumbai, India



**WFNR**

World Federation for NeuroRehabilitation



Indian Federation of NeuroRehabilitation



# 10<sup>th</sup> WORLD CONGRESS FOR NEUROREHABILITATION

7 - 10 February, 2018 | Mumbai, India

10<sup>th</sup> World Congress for Neurorehabilitation 2018, was held from 7<sup>th</sup> - 10<sup>th</sup> February, 2018 at Renaissance Convention Center and Hotel, Mumbai, was hosted by Indian Federation for Neurorehabilitation in association with World Federation for Neurorehabilitation and Neurorehab Subsection of the Indian Academy of Neurology.

This congress was endorsed by Ministry of Home Affairs, Ministry of External Affairs and Ministry of Health & Family Welfare, Government of India & Supported by Indian Council of Medical Research and Ministry of Tourism, Maharashtra Government and supported by 22 supporting organizations.

## ENDORSED BY



सत्यमेव जयते

**Ministry of Home Affairs**  
Government of India



सत्यमेव जयते

**Ministry of External Affairs**  
Government of India



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**Ministry of Health and Family Welfare**  
Government of India

## SUPPORTED BY



The congress was attended by over 2200 delegates including Neurologist, Neurosurgeon, Physiatrist, Physiotherapist, Occupational Therapist, Speech Therapist, Psychologist, Patients, Caregivers and other Rehab Professionals at Large. The Congress consisted of a mixed group of eminent speakers from India & abroad and enlightened the young rehab enthusiasts present at the congress. Approx 2200+ Attendees came from 58 different countries around the globe, which included both Developed as well as Developing countries.

## SUPPORTING ORGANISATIONS



**AOSNR**  
Asia-Oceanian Society for  
NeuroRehabilitation

Asia-Oceanian Society for  
NeuroRehabilitation



Asian and Oceanian  
Association of Neurology



Pakistan Society of  
NeuroRehabilitation



Bangladesh Association of  
Physical Medicine & Rehabilitation



Association of  
Srilankan Neurologists



Nepal Physiotherapy  
Association



Indian Academy of Neurology



Neurological Society of India



Indian Stroke Association



Indian Association of Physical  
Medicine & Rehabilitation



Indian Society for Stereotactic  
and Functional Neurosurgery



Bombay Neurosciences  
Association



The Indian Association  
of Physiotherapists



All India Occupational  
Therapists' Association



Indian Speech  
and Hearing Association



Indian Association of  
Clinical Psychologists



Orthotics & Prosthetics  
Association of India



Spinal Cord Society

**MSSI™**  
Multiple Sclerosis Society of India  
Mumbai Chapter

Multiple Sclerosis  
Society of India



Indian Head Injury Foundation



Parkinson's Disease &  
Movement Disorder Society



ADAPT (Formerly The  
Spastics Society of India)

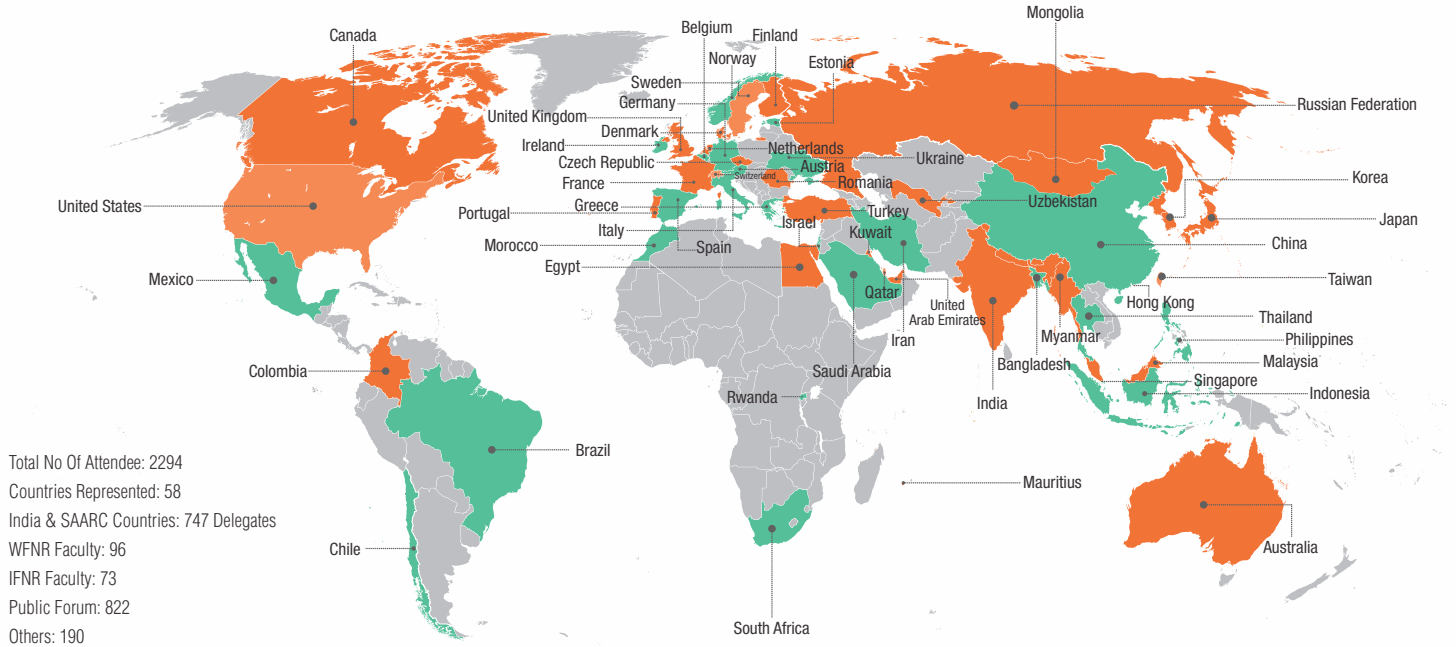
Digital Conference  
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**plexusmd**  
Connecting Doctors Worldwide

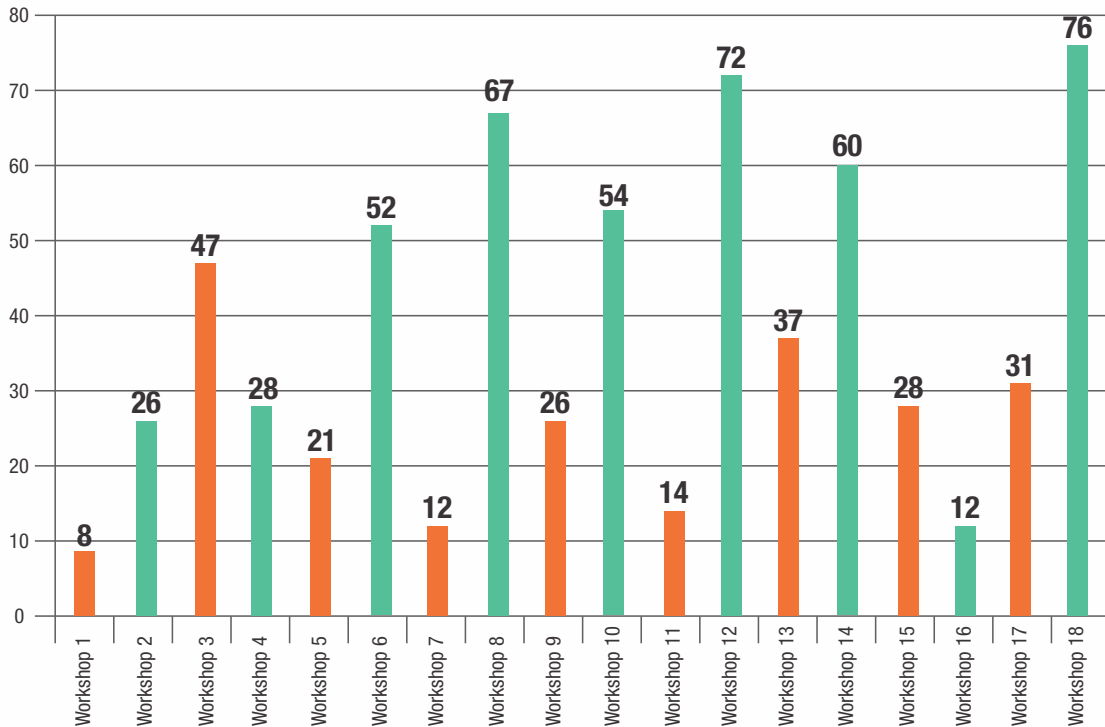
Media Partner



## HIGHLIGHTS OF 10TH WCNR 2018



## WORKSHOPS



- Meet the professor session - 15 sessions
- Breakfast session - 6 sessions
- WCNR Symposium - 18 symposiums
- Developing World Forum Symposium - 6 symposiums
- IFNR symposium - 6 symposiums
- Sponsored symposium - 8 symposiums
- Plenary session - 4 lectures
- Oral Presentation - 120 Presentations
- Poster Presentations - 482 Presentations
- Public Forum - 9 Forums



## WEDNESDAY, 7<sup>TH</sup> FEBRUARY 2018

Day one of the congress included 18 Pre Conference Workshops with topics of recent advances in Neurorehabilitation, a few of the Workshops involved patients who were examined and treated by specialists in the field. Vestibular rehabilitation, Telerehabilitation, Hands on Workshop for Spasticity Management, Speech and Swallowing workshop to name a few were the most preferred workshops by the attending delegates. Over 400 delegates both National and International attended these interesting Workshops.



Spasticity Workshop



Vestibular Rehabilitation



Ultrasound Workshop



Live Botulinum toxin Injection given during Workshop



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Inauguration Oration was given by Padmabhushan Shri Prof. N. K. Ganguly on "Issues related with the neurological disorders of old age and rehabilitation". Prof. Ganguly is the former Director General, Indian Council of Medical Research (ICMR), New Delhi; former Director, PGIMER (Chandigarh).



Prof. N. K. Ganguly



Dr. Nirmal Surya, Prof. Leonard Li,  
Prof. N. K. Ganguly, Dr. R. K. Srivastava



Inauguration of Trade Exhibitions

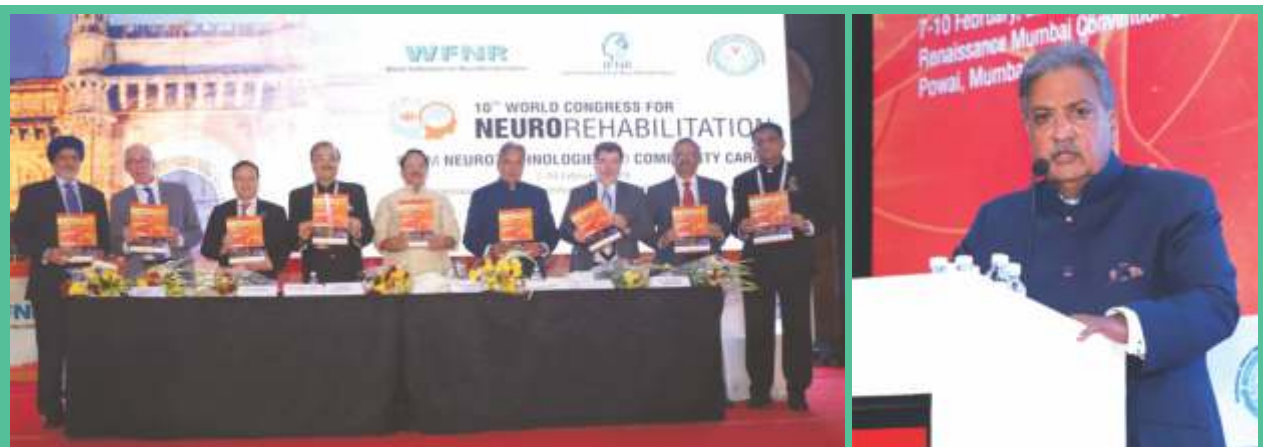


## FROM NEUROTECHNOLOGIES TO COMMUNITY CARE

Inauguration of the 10<sup>th</sup> World Congress for Neurorehabilitation was held in the evening of 7<sup>th</sup> February 2018. The Inauguration was attended by a large Number of National as well as International medical and rehab professionals. The chief guest were Shri. Raj K. Purohit, Chief Whip and Cabinet Minister of Maharashtra Government and the Patron of the 10<sup>th</sup> WCNR 2018, His Highness Maharaja Gaj Singh II of Jodhpur. The Congress Souvenir and Abstract Copy were released during the inauguration ceremony.



Lighting of the Lamp



Release of Souvenir of 10<sup>th</sup> WCNR 2018



Release of Abstract Pendrive of 10<sup>th</sup> WCNR 2018

# 10<sup>th</sup> WORLD CONGRESS FOR NEUROREHABILITATION

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The President of 10<sup>th</sup> WCNR Dr. Nirmal Surya, took this huge opportunity to felicitate Padmabhushan Dr. J. S. Chopra, the Senior most Neurologist of the country, contributed relentlessly to the field of Neurology and Neurorehabilitation.



Felicitation of Prof. J. S. Chopra by WFNR and IFNR Committee

A Brief Dance Performance by the Differently Able Dancers of the Victory Foundation got the foot tapping of the audience and a standing ovation, and was followed by an Indian Classical Fest leaving the audience mesmerized. The silent National Anthem was played at the end of the inaugural evening, which left many National and International attendees Tear-eyed.



Shiamak Davar - Victory Arts Foundation



Drishti Foundation





## THURSDAY, 8<sup>TH</sup> FEBRUARY 2018

The day started with 5 “Meet The Professor Sessions”, where delegates got to interact with the Eminent Neurorehab Specialists from around the world and 2 parallel Breakfast Sessions covering topics of Neurorehabilitation, the opportunity to hear and ask questions to esteemed faculty members was a driving force for the young budding neurorehab professionals. ‘Janus Head - The enigmatic role of motor learning in Neurorehabilitation’ was the topic of the plenary session delivered by Dr. Leonardo Cohen from USA.

Followed by this, 6 parallel Symposium were organized discussing various topics of interest ranging from Spinal Cord Injury, Concussion, Neuroinfection, Molecular Mechanisms of Recovery, Cochran and SAARC Joint symposium. During the Lunch Poster viewing session, the young research enthusiast presented their work in the field, 10<sup>th</sup> World Congress saw the most number of abstracts received for poster as well as oral presentation.

Sessions on free papers covered stroke rehabilitation, cognitive disorders including neuropsychology, movement disorders, and spinal cord injury with excellent representation worldwide. The evening Sessions again had 6 parallel Symposiums such as, AOSNR Joint Symposium, Neuropathic Pain, Traumatic Brain Injury, Robotics - Paradigm Shift In Neurorehabilitation, Outreach Programmes In Developing Countries & Multidisciplinary Team Approach In Neurorehabilitation In India.



Prof. Carmichael Stanley Thomas



Prof. Ellen Merete Hagen



Prof. A. K. Mukherjee



Prof. Caterina Pistarini

10<sup>th</sup> WORLD CONGRESS FOR  
**NEUROREHABILITATION**

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Dr. Gerard Francisco



Prof. Leonard Cohen



AOSNR Team



## FRIDAY, 9<sup>TH</sup> FEBRUARY 2018

The day started with 5 "Meet the Professor" sessions and was highly appreciated by the delegates who had the opportunity to hear and ask questions to specialists within the diverse areas of Neurorehabilitation. 2 parallel Breakfast Sessions on Music Therapy and Dance Therapy in India showcased the development in India in this field. During the Presidential Lecture: Neurorehabilitation - Challenges Ahead, Professor Leonard Li made a strong case for promoting better neurological rehab care worldwide.

The Morning session started with 6 parallel symposiums, Alternative Medicine, Critical Illness-Neuromyopathy, Cognitive Neurology & Neuropsychology, Spasticity, WFNR-ISPRM Disaster Rehabilitation and IAN Neurorehab Subsection Symposium. During the Lunch Poster viewing session, the young researchers presented their work in this field.

Sessions on free papers covered stroke rehabilitation, cognitive disorders including neuropsychology, movement disorders, and spinal cord injury with excellent representation worldwide. Evening session Symposium covered a Wide Variety of topics, Neurorehabilitation, Transition and Ageing in Cerebral Palsy, Behavioral Disturbances after Acquired Brain Injury, Motor Rehabilitation, Advanced Technologies in Neurorehabilitation - What a Healthcare professional needs to know and WHO Symposium.



Prof. Leonard Li during the Presidential Lecture



Dr. Ashok Pangariya



Prof. Michael Barnes



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Dr. Michel Selzer



The Local Organizing Committee organized an entertaining Bollywood night for the conference attendees, Javeed Jaffery, Arshad Warsi and Ali Asgar entertained the crowd followed by various dance performances.



Bollywood Night



Arshad Warsi, Ali Asgar and Javed Jaffery Entertaining The Crowd



## SATURDAY, 10<sup>TH</sup> FEBRUARY 2018

The last day started with 5 "Meet the Professor" sessions which once again proved highly popular, with delegates having the opportunity to interact and discuss topical issues with global leaders at their disposal. The morning sessions covered key areas around when to start rehabilitation after an acute stroke, the benefits of neurologic music therapy, making a prognosis for recovery potential after stroke, to neonatal rehabilitation, unmet needs in neurorehabilitation education, and hints and guidance for young researchers.

The main plenary session was led by Professor Dafin Muresanu on the subject of Anticorrelated Processes in Neurobiology. It was an absolute delight to hear about where we are heading in the science behind brain health. Six further symposia covering Neuro-Infections, Language and Communication disorders, Multiple Sclerosis, Movement Disorders, Models of Community Rehabilitation Outreach program, and Neck and Back pain disorders featured during the afternoon.



Prof. Dafin Muresanu



Prof. Jorge Hernandez Franco



Dr. Julie Bernhardt



Dr. Nirmal Surya



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The final closing lecture was delivered by Professor Alarcos Cieza on WHO Strategy on Rehabilitation which clarified many questions of the delegates as to the work done by WHO in this field of Rehabilitation.



WHO Global Strategy on Rehabilitation - 2030: Prof. Alarcos Cieza from WHO

The Valedictory ceremony was conducted by the President 10<sup>th</sup> WCNR 2018, Shri. Arvind Sawant, Member of Parliament was the Chief Guest of this ceremony, He thanked all those responsible behind the success of the congress, presented them with a memento and the conference bag.



Valedictory ceremony

# FROM NEUROTECHNOLOGIES TO COMMUNITY CARE



Dr. Nirmal Surya Delivering The Valedictory Presentation



## Best Poster Award

DATE	DAY	POSTER NO.	AUTHOR
08-02-2018	Thursday	T-102	Nikita Kirane, India
09-02-2018	Friday	F-150	Nithya Manoj, India
10-02-2018	Saturday	S-041	Claudia Rivas, Chile

Judges of Poster Presentation



Winners of the Poster Session



## PROGRAM: PUBLIC FORUM

Public Forum, A programme added first time in schedule of the WCNR by the President of WCNR 2018; A platform where the patients and caregivers could interact with each other as well as the national and international specialists in their respective field. This was a huge success and has been requested by Dr. Nirmal Surya to be added in the future congress. 9 Public Forum concerning topics of Neurorehabilitation were Organized.

### ► Thursday, 8<sup>th</sup> February, 2018

#### **TRAUMATIC BRAIN INJURY (TBI)**

No. Of Attendees	: 83
Conveners	: Rajendra Prasad, C. Deopujari, Suresh Sankhla, D. Muzumdar
NGO / Organization	: IHIF: Indian Head Injury Foundation, NSI: Neurological Society of India, BNA: Bombay Neurosciences Association
International Speakers	: Caterina Pistarani (Chair, Mild and Severe Brain Injury SIG)
National Speakers / Panel	: C. Deopujari, Rajendra Prasad, Suresh Sankhla, D. Muzumdar, Tarun Lala
Special Invitees	: HRH Maharaja of Jodhpur, Amimesh Kumar (Jt. Comm Of Police Traffic), Commodore Ranbit Talwar(CEO, IHIF)



Traumatic Brain Injury Forum

#### **SPINAL CORD INJURY**

No. Of Attendees	: 92
Conveners	: Ankur Nanda, Ketna Mehta
NGO / Organization	: Spinal Cord Society, Indian Spinal Injuries Center, Nina Foundation
International Speakers	: Humberto Antnio Cerrel Bazo (Chair, Spinal Cord Injury, SIG), Lisa Harvey (Editor in Chief, Spinal Cord), Maggie Sargent (Brain Injury & Spinal Injury Case Manager, U.K.)
National Speakers / Panel	: Ankur Nanda, Ketna Mehta



Spinal Cord Injury Forum



**CEREBRAL PALSY**

No. Of Attendees	: 80
Conveners	: Mithu Alur, Shabnam Rangwala
NGO / Organization	: ADAPT: Able Disabled All People Together
International Speakers	: Martin Staudt (Co-Chairperson for Pediatric Neurorehabilitation, SIG)
National Speakers / Panel	: Ashok Johari, Anaita Hegde, Richard Rieser, Taral Nagda, Dhawal Chotal



Cerebral Palsy Forum

► **Friday, 9<sup>th</sup> February, 2018**

**DEMENTIA**

No. Of Attendees	: 61
Conveners	: Suvarna Alladi, Vidya Shenoy, Sailesh Mishra
NGO / Organization	: ARDSI: Alzheimer's and Related Disorders Society of India, Silver Innings
International Speakers	: Dafin Muresanu (President, European Federation of Neurorehab Societies - EFNR)
National Speakers / Panel	: Suvarna Alladi, Santosh Bangar, Vidya Shenoy, Sailesh Mishra
Special Invitees	: Prakash Borgaonkar (Director, HelpAge India)



Dementia Public Forum

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## POLICY AND LEGAL ASPECTS

No. Of Attendees	:	39
Conveners	:	B. Athani (Ministry of Health, Government of India), N. Surya
International Speakers	:	Matilde Leonardi (Chair SIG-MAC - Measurement, Assessment and Classification)
National Speakers / Panel	:	Ravindra Singh (ICMR)



Legal and Policy Making Forum

## STROKE

No. Of Attendees	:	74
Conveners	:	Shirish Hastak, Dheeraj Khurana
NGO / Organization	:	Wockhardt Stroke Support Group
International Speakers	:	Gert Kwakkel (Chair, Neurorehab Dept., Rehab Medicine, Amsterdam)
National Speakers / Panel	:	Shirish Hastak, Dheeraj Khurana



Stroke Forum

► Saturday, 10<sup>th</sup> February, 2018

**Multiple Sclerosis**

No. Of Attendees	:	92
Conveners	:	Sheela Chitnis, Geeta Mirchandani
NGO / Organization	:	MSSI: Multiple Sclerosis Society of India
International Speakers	:	Jurg Kesselring (President, Swiss Multiple Sclerosis Society, Chairman, WHO Working Group on Multiple Sclerosis)
National Speakers / Panel	:	Sarosh Katrak, Girish Nair, Snehal Patel
Special Invitees	:	Prashant Laghate (Director, MERCK)



Multiple Sclerosis Forum

**Epilepsy**

No. Of Attendees	:	96
Conveners	:	Pravina Shah, Carol D'Souza, Nirmal Surya, Rahul, Hetal
NGO / Organization	:	Samman Association, Epilepsy Foundation
International Speakers	:	Alla Guekht (Head of the Neurology and Epilepsy Clinic, Moscow)
National Speakers / Panel	:	Gagandeep Singh, Sanjeev Thomas



Epilepsy Forum

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## Parkinson's Disease

No. Of Attendees	:	82
Conveners	:	Maria Baretto, Nicole D'Souza
NGO / Organization	:	PDMDS Parkinson's Disease and Movement Disorder Society
International Speakers	:	Barbara Wilson (Chair SIG Neuropsychological Rehabilitation), Jean-Michel Gracies (Albert Chenevier Hospital, France), Jill Winegardner (Associate Editor Neuropsychological Rehabilitation)
National Speakers / Panel	:	Rajvi Mehta, Gayatri Hattangadi, Kathpal



Parkinson Disease Forum

The daily patient forum was a sell-out event with a packed audience. All the International and National Speakers spoke about the condition and explained the care to be taken by the patient as well as the caregiver. This was followed by an interaction with the patients, caregivers and experts from the respective Field. The attendance for the public forum for all the 3 days was 800+.



FROM NEUROTECHNOLOGIES  
TO COMMUNITY CARE





**Dr. Nirmal Surya**



"This was wonderful journey for India. I feel that this is going to change the way we are practicing. A lot of young therapists have benefitted and not only that, two Indians have won the best poster award. Our work is parallel to the work done across the world. I am extremely satisfied. Students got the best opportunity to interact with the experts in the world."



**Dr. Alarcos Cieza**, *Department for Management of Noncommunicable Diseases, Disability, Violence and Injury Prevention, World Health Organization (WHO)*

"It is important to do advocacy for the need of rehabilitation services in the countries and the increase capacity to be able to provide these services in countries. This is very much needed in India but India is not alone. There are many countries in the world that are in the same situation. We need an extensive research to prove the effects of low cost rehabilitation. We should research on how we can scale up low cost rehabilitation services. If we can scale up these services many countries who don't have resources will be benefitted."



**Dr. Leonard S. W. Li**, *President of World Federation of NeuroRehabilitation*



"We are sending teams to low income countries to share the latest knowledge with the experts in those countries and trying to provide some training courses. This is one way. The other option is to have online programs for experts and for those who want to learn rehabilitation. We are planning different online training workshops mainly in the field of plasticity."



**Dr. David Good**, *President Elect of WFNR*

"WFNR is planning to do encourage training programs in developing countries to have a trained population working for rehabilitation. We have a dedicated faculty for which travels even to remote areas. This is one of our major roles. It is an excellent way in which they have arranged the conference. Dr. Nirmal Surya has taken some extra efforts."



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**Professor Michael Barnes**, *Founder President of WFNR*

"I came here about 25 years ago; there was not much in NeuroRehabilitation not only in India, but across the world. So, it's lovely to see such a huge progress. Now, with so much enthusiasm and so many people, NeuroRehabilitation has evolved and the quality of services is good. It is great to see the development which has taken place over the last 20 years."



**Dr. Ashok Panagariya**, *Professor Emeritus, Neurology, Member, Chief Minister's advisory council*

"NeuroRehabilitation is in the beginning phase. The number of trained physiotherapist is growing. Still, there is a long way to go. As, the number of patients is more and the time devoted is less. More and better physiotherapists are needed. Also, we should pick up the advancement."



**Dr. Humberto Cerrel Bazo**, *Italy*

"If families of the patient are trained, it will help in curing the patient with low cost techniques. Educating people and making them aware about the rehabilitation techniques when it comes to spinal cord related injuries is vital. Also, there should be a good team of doctors who understands the needs of patients and problems that patients suffer."



**Dr. Mayowa Owolabi**, *Professor and Director, Centre for Genomic and Precision Medicine, Blossom Centre for Neurorehabilitation, Nigeria*

"Medium and low income countries share at least 80% of the burden for neurorehabilitation. And they have less than 10% of the resources to combat it. That is the paradox. By the time a person comes to a neurologist, he may have already exhausted all his own, as well as his family's resources. For instance, for acute management of stroke, cost spent for a brain scan and so on is huge. So when they come for rehabilitation, they are left with nothing. This leaves low cost rehabilitation as the only option."



**Dr. Ketna Mehta**, *Founder of Nina Foundation*

"The World Health Organisation (WHO) describes spinal cord injury as the most devastating injury in the universe. It is medically complex and life altering. There more than 2 million spinal cord injuries in India. Still, in a city like Mumbai, we do not have world class rehab centre for spinal cord injuries. It is because of the patient's own determination, support and care of the family, along with the efforts of doctors and therapists that they are thriving."



The seeds of Neurorehabilitation were planted in India in 2010 and since then the entire team had been striving really hard to develop Neurorehabilitation in our country. We started by setting up the Indian Federation of Neurorehabilitation in 2012, the first Multidisciplinary Team of medical and rehab professionals working in the field of Neuro rehab. Our main aim was to Develop Neurorehabilitation, making it available to our population at an affordable cost so as to reduce disability. It was a dream comes true when it was decided that the World Congress for Neurorehabilitation were to be held in India after we successfully won the bid in 2014 at Turkey during 8th World Congress for Neurorehabilitation. After clouds of uncertainties and glitches were overcome in 2016 at Philadelphia during the 9th World Congress for Neurorehabilitation, we were officially given permission to host the 10th World Congress for Neurorehabilitation in Mumbai 2018, after which the main 2 years of hard work to make ends meet was started, and here we have successfully hosted this World Congress for Neurorehabilitation in Mumbai. Bringing 58 countries across the globe in Mumbai, India. Lastly even the researchers of India stood out in a surprising way winning 2 best poster awards. Thank you to one and all for making this event successful.

