

Pre Conference Workshops

Venue: Indian Spinal Injuries Centre, New Delhi
10th October, 2019

- A. Clinical, non-technical assessment of spinal patients:1400-1530**
- B. Goat Spine Workshop: 1600- 2000**
- C. Telemedicine & Virtual Reality Workshop: 0900-1230**
- D. CSSD Workshop: 1000-1130**

A) Clinical, non-technical assessment of spinal patients: 1400 hrs -1530 hrs -Conference Hall (First Floor) (Hall B)

Faculty:Dr Patrick Kluger, Dr Hans Joseph Erli, Dr Rainer Abel

Time	Topic
1400 – 1440	Clinical, non-technical assessment of spinal patients - Dr Patrick Kluger
1440 – 1530	Demonstration and Practice - Dr Patrick Kluger, Dr Hans Joseph Erli, Dr Rainer Abel

B) Goat Spine Workshop:1600hrs- 2000hrs- DNB Room (1st Floor) (Hall-C)

Faculty: Dr Patrick Kluger, Dr Hans Joseph Erli & Dr Rainer Abel

Time	Topic
1600 – 1630	Lecture on placement of pedicle screws, and technical directives - Dr Patrick Kluger
1630 – 1845	Practice on non-marked vertebrae - Patrick Kluger, Dr Hans Joseph Erli, Dr Rainer Abel
1845 – 1930	Practice on 6 marked vertebrae / participant - Patrick Kluger, Dr Hans Joseph Erli, Dr Rainer Abel
1930 – 2000	Assessment of accuracy, hands-out of certificates - Dr Hans Joseph Erli, Dr Rainer Abel, Dr Patrick Kluger

C) Telemedicine & Virtual Reality Workshop : 0900-1230- Conference Hall (1st Floor), (Hall B)

- Faculty:Dr. H.S.Chhabra, Dr. Chitra Kataria, Dr Pawan Gupta, Dr. Marcallee Alexander,Ms Neetu Maitra, Dr. Shakti A. Goel, Ms. Nishu Tyagi, Mr Habib, Mr Ishan, Mr. Rishabh Aggarwal

Time	Topic
0900-0910	Importance of telehealth model in India - Dr. H.S.Chhabra
0910-0925	Tele-rehab applications at ISIC - Dr. Chitra Kataria,
0925-0935	International Tele-rehabilitation practice: The way forward - Dr. Marcallee Alexander
0935-0950	Tele-Nursing - Ms Neetu Maitra
0950-1020	Activity Based learning Surgeons Perspective Rehabilitation Perspective (Telehealth Hands on Training) - Dr. Shakti A. Goel - Ms. Nishu Tyagi,
1020-1035	Telemedicine practice in Cancer Prevention: Clinical Aspect - Dr Pawan Gupta
1035-1045	Technology in Preventive care - Mr. Rishabh Aggarwal
1045-1120	Open House with audience: Need of Telehealth and Virtual Reality in current Clinical practice? Moderator: Dr Shakti A Goel Panelist: Dr Pawan Gupta, Dr Chitra Kataria, Ms. Neetu Maitra, Ms. Nishu Tyagi, Mr Habib, Mr Ishan, Rishabh Aggarwal
1120-1150	Virtual reality in Rehabilitation - Mr Ishan
1150-1220	Virtual RealityHands on Training: Armable Device for upperlimb strengthening -Mr Habib,
1220-1230	Vote of Thanks & Adjourn

E. CSSD Workshop :1000-1130- AV Room , Opp. Sectt (2nd Floor) (Hall D)

Faculty: Mr Baban Rai, Mr Manoj Kumar Tiwari

Time	Topic
1000-1045	Sterility Assurance level and Monitoring - Mr Baban Rai
1045-1130	Low temperature sterilization - Mr Manoj Kumar Tiwari, FMRI

Pre Conference Workshops
 Venue: Indian Spinal Injuries Centre, New Delhi
 11th October, 2019

Surgeons – Basic Workshop

(A) Dural Repair Workshop :0830-1000-Seminar Hall-1 (Hall –E)

Time	Topic
	Chairperson- Dr Serdar Kahraman, Dr Bipin Walia
0830-0840	Types of Dural tears – etiology and methods to prevent them - Dr G Balamurali
0840-0850	Management strategies for Dural injury and Dural repair - Dr Bipin Walia
0850-0900	Video demonstration of Dural repair - Dr Serdar Kahraman
0900 – 0915	Demonstration of Dural Repair - Dr Bipin Walia
0915 – 1000	Hands on Workshop – Dural repair Table Faculty – Dr G Balamurali, Dr Ankur Nanda, Dr M. L. Bansal, Dr Neeraj Gupta, Dr Sunil Katoch, Dr Arun Sharma, Dr Gopal Shukla

(B) Medtronic Midas Drill Workshop :1000-1200- DNB Room (1st Floor) (Hall –C)

Faculty: **Dr Kalidutta Das, Dr Manoj Sharma, Dr Vikas Tandon, Dr Tarush Rustagi, Dr Vineet Varghese**

Time	Topic
1000-1015	Welcome
1015-1045	Introduction to Midas Rex high speed drill and its components - Mr. Ankit Arora
1050-1055	Initial Exercise-with scapula bone Tapered Tool 1.BurrHole 2.Unicorticalboneharvestation 3.Osteotomy 4.De-roofingofnerveroots
1055-1100	Match head tool 1.Burr Hole 2.Decortication 3.Deroofing of nerve roots
1100-1105	Acorn Tool 1.Decortication 2.Burr Hole 3.Tissue debridement
1105-1110	Ball Tool 1.Decortication & Drilling
1110-1115	Cylinder Tool 1.Decortication & Drilling
1115-1120	Break
1120-1150	Exercise with Spine bone specimen 1.Anterior Corpectomy 2.Posterior laminectomy 3.Laminotomy 4.Foraminotomy 5.Laminoplasty 6.Footed Laminectomy
1150-1155	Extra Time –Egg Dissection
1155-1200	Wrap up and Close/Evaluation

Surgeons – Advanced Workshop (0830-1200)

I. Advancements in Spine management: Navigation, Robotics, Diaphragmatic stimulation, EOS

- A) **Navigation: 0830-0930**
- B) **Talk on Diaphragmatic Pacing Surgery: 0930-1000**
- C) **Robotics: 1000-1100**
- D) **EOS: 1115-1255**
- E) **Live demonstration of Diaphragmatic Pacing Surgery: 1010-1130**

(A) Navigation :0830-0930- Conference Hall (1st Floor) (Hall B)

Time	Topic
0830-0850	Navigation - Principles, steps and outcome - Dr Deepak Bhangale
0850-0930	Hands on workshop Dr B Mohapatra, Dr Gururaj Sangodimath, Dr Deepak Bhangale,

(B) Diaphragmatic Pacing Surgery :0930-1000- Conference Hall (1st Floor) (Hall B)**Faculty – Dr Raymond Onders- Pioneer of Diaphragmatic Pacing Surgery**

Time	Topic
0930-1000	19 years experience of Diaphragmatic pacing: Technique, Evaluation & Future potential - Dr Raymond Onders Live demonstration of surgery will follow in another halls subject to availability of case

(C) Robotics:1000-1115- Conference Hall (1st Floor) (Hall B)

Time	Topic
1000-1015	Robotic spine surgery- Principles, steps and outcome - Dr H S Chhabra
1015-1100	Do your preoperative planning on Robotic software -Mr. Rohit Sahu, Mr. Himanshu Makhija
1100-1115	Hands on workshop - Dr Kalidutta Das, Dr Ankur Nanda, Dr Rajat Mahajan

(D) EOS:1115-1145- Conference Hall (1st Floor) (Hall B)

Time	Topic
1115-1145	Has EOS revolutionised management of Spinal Ailments - Dr Jorg Franke

(E) Diaphragmatic Pacing Surgery :1010-1130**Faculty – Dr Raymond Onders- Pioneer of Diaphragmatic Pacing Surgery – OT Recovery (1st Floor) (Hall E)**

Time	Topic
1010-1130	Live demonstration of surgery (subject to availability of case)

Grant Handing over Ceremony: 1145-1155- Conference Hall (1st Floor) (Hall B)

1145-1155	Brief Ceremony of handing over of German Paraplegic Foundation Grant by German Embassy officials
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Time	Topic
1200-1220 (15+5)	Key Note Speaker: Lumbar disc arthroplasty: Past, Present and Future - Dr. Jörg Franke, Germany
1220- 1255	Case Based Panel Discussion Anterior support in adult deformity surgeries(OLIF vs DLIF vs Multiple TLIF) Moderator: ????? Panelist: Dr Dominique A Rothenfluh, Dr Fazlul Hoque, Dr. Ziad M Alzoubi, Dr Ramesh Kumar, Dr K Das, Dr Mohapatra, Dr Darshan Gautam, Dr Kedar Phadke, Dr Vijayanth Kanagaraju, Dr Rajat Mahajan, Dr Vishal Nigam
1255- 1330	Case Based Panel Discussion Proximal junction failure – Have we understood it now? Moderator: Dr. Appaji Krishnan Panelist: Dr. Jörg Franke, Dr Yorck B Kalke, Dr Thomas Oxland, Dr Shah Alam, Dr Sarat Chandra, Dr M L Bansal, Dr Ankur Nanda, Dr Gururaj Sangodimath, Dr Vikas Tandon
1330-1400	Break
1400-1420 (15+5)	Key Note Speaker: From degeneration to deformity in the adult spine: biomechanics and clinical evidence - Dr. Dominique A Rothenfluh, UK
1420-1455	Case Based Panel Discussion Pedicule subtraction osteotomy- ideal site L2,L3,L4 or at apex Moderator: Dr. H. S. Chhabra, Panelist: Dr. Jörg Franke, Dr S K Srivastava, Dr Raghavendra S, Dr Tarush Rustagi, Dr Suresh Pillai, Dr Vishal Nigam, Dr Manoj Sharma, Dr Sandeep Vaishya, Dr Tarun Suri
1455-1530	Case Based Panel Discussion Role of motion preservation techniques in current age in lumbar spine Moderator: Dr Arun Bhanot Panelist: Dr Dominique A Rothenfluh, Dr Agnivesh Tikoo, Dr Rainer Abel, Dr Serdar Kahraman, Dr Pallav Bhatia, Dr Ashok Reddy, Dr Sunil Katoch, Dr K L Kalra, Dr Satnam Singh, Dr Harsh Bhargava,
1530-1600	Case Based Panel Discussion Spondylolisthesis with radiculopathy in high grade osteoporotic spine Moderator: Dr Raghavendra S Panelist: Dr Manoj Sharma, Dr Rupinder Chahal, Col V S Madan, Dr Abhishek Srivastava, Dr Abhinandan Reddy, Dr Saransh Gupta, Dr Neeraj Gupta, Dr Patrick Kluger, Dr Hans Joseph Erli,

Workshops of special interest**a) Tetraplegic Hand:1130-1530- Lecture Theatre-2 (Near Dialysis) (Hall F)****a) Tetraplegic Hand**

Time	Topic
1130-1145	Tetrahand surgery - introduction and ISIC experience - Dr Deepak Raina
1145-1200	Approach to tetraplegic hand - Examination , assessment & Decision making - Dr Anil Dhal
1200-1215	Rehab assessment of tetrahand patients - Ms Priyanka Vijay
1215-1230	Pre-op and Post operative rehabilitation planning - Ms Swati Mishra
1230-1245	Role of Adaptive devices and ADL training in Tetrahand patients - Ms Savita
1245-1330	LUNCH
1330-1350	Nerve transfers - Fad or the real future - Dr Akshay Malhotra – skype talk
1350-1410	Surgical options for high level injuries (IC0-IC2) – - Dr Simon Pickard - Skype talk
1410-1430	Surgical options for lower injuries (IC3-IC7) - Alphabet procedure - Dr Simon Pickard – skype talk
1430-1530	Live case discussions Moderators – Dr C Sobti & Dr Harpreet Singh Panelist – Dr Anil Dhal, Dr Deepak Raina, Dr Simon Pickard, Ms Priyanka Vijay, Ms Swati Mishra, Ms Savita
1530	Vote of thanks and Tea

- b) Management of Neurogenic Bladder : 1300-1500 hrs- AV Room, Opp. Sectt (2nd Floor) (Hall D)**
Faculty –Dr Fin Biering Sorenson, Dr Nikhil Khattar, Dr Manu Gupta, Dr Amita Jain, Dr Rachna Verma, Dr Gaurav Sachdev, Dr Dinesh Suman, Dr Satish Gunawant, Dr Vineet Narang,

Time	Topic
1300-1315	Recommendation for evaluation of NGB after SCI - Dr Fin Biering Sorenson
1315-1330	Introduction to neurogenic bladder dysfunction after SCI - Dr Manu Gupta
1330-1345	Essentials of Neurogenic bladder management in SCI persons - Dr Nikhil Khattar
1345-1400	Advanced treatment options for Refractory Neurogenic bladder in SCI - Dr Amita Jain
1400- 1415	Fertility concerns in SCI persons - Dr Rachna Verma
1415-1430	QA session and discussion
1430-1500	Panel discussion -Neglected Urological and Sexuality concerns in SCI persons: Innovations in Urocare in developing countries Moderator: Dr Dinesh Suman Panelists: Dr Fin Biering Sorenson, Dr Nikhil Khattar, Dr Manu Gupta, Dr Amita Jain, Dr Rachna Verma, Dr Satish Gunawant, Dr Vineet Narang, Dr Gaurav Sachdev, Ms. Pragya

Day-(-1)

Pre Conference Workshops

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11th October, 2019

b) Rehabilitation Workshop

Time	Topic	
0830 -1000	Workshop 1 Auditorium (1st Floor) (Hall A) Assessment in SCI ISNCSCI Charting, SCIM, CUE, Walking Index, Modified Ashworth Scale	Workshop 2 AV Room, Opp. Sectt (2nd Floor) (Hall D) Recent Advances in Respiratory Care - Transition from ICU to community
		Chair- Dr Raymond Onders
	Assessment for SCI - Brief overview (0830-0840) - Neha / Bhumika	Overview of respiratory issues in spinal cord injury Demonstration of respiratory muscle strengthening of Spinal cord injury patient (0830 – 0855) - Shambhovi Mitra
	2) Modified Ashworth scale / SCIM / CUE (0840-0900) - Bhumika	2.) New perspective for chest physical therapy in spinal cord injury patients with demonstration (08:55 – 09:20) - Rimsha Siddiqui
	ISNCSCI -Overview + motor assessment (0900-0920) - Rajesh Shahrawat	Assessment and training of oromotor function for tracheotomised patients (0920 – 0945) - Ashish Kumar Jha
	Sensory assessment + Classification + implication on goals of therapy (0920-0940) - Neha	Discussion (0945 – 1000)

	Walking Index (WISCI, 6 min walk test, 10 min, TUG) (0940-1000) - Dr. Harihara Prakash		
1000-1030	Break		
1030-1230	Plenary Session – Auditorium (Hall A)		
1030-1042	Overview of Rehabilitation of SCI - Dr. Chitra Kataria		
1042-1054	New development in SCI assessment: Preliminary findings of the SCIM IV reliability and validity study - Dr. Amiram Catz		
1054-1106	Bone Mineral Density Testing in Spinal Cord Injury: the 2019 International Society of Clinical Densitometry Official Positions - Dr Fin Biering Sorenson		
1106-1118	Role of Exoskeletons in SCI : Physiotherapist’s perspective - Ms Ulla Bergner		
1118-1130	Innovative solutions in neurogenic ventilatory insufficiency (12min) - Dr. Doris Maier		
1130-1142	Bladder and Bowel management of Spinal injured: What a therapist should know? (12min) - Dr Dinesh Suman		
1142-1154	Advances in SCI Rehabilitation - Dr Shweta Jain		
1154-1206	C7 tetraplegic patient with superior mesenteric artery syndrome - Dr Khin Sein Yin		
1206-1230	Discussion		
1230-1315	LUNCH		
1315-1430	Workshop 3 Gym Area, Rehab Department (Ground Floor) (Hall G) Strength Assessment and Training for SCI -	Workshop 4 Physiotherapy area, Rehab Department (Ground Floor) (Hall H) - Wheelchair Skills -Positioning, Handling, Transfers and Bed mobility in Wheelchair -	Workshop 5 Auditorium (1 st Floor) (Hall A) Research in SCI
	Strength Assessment for SCI 1315-1335 - Megha & Alpana	Wheelchair skills (1315-1445) a) Correct seating and propelling technique. b) POP wheelie (6”Obstacle) c) Doors (opening & closing) d) Ramp (if time allows) - Rajiv Virat	Introduction to Research in SCI (1315-1320) - Sakshi S Vatsa
	Strength training for patients with SCI (1335-1355) - Meena & Alpana	Positioning and handling (1445-1515) - Nikhil & Hitesh	Ethical considerations for conducting any research in SCI (1320-1340) - Disha Garg, Vandana Phadke
	Impact of strength training on functional independence (1355-1415) - Shefali Walia	Transfer and Bed mobility - a) Bed mobility (turning, rolling, supine to sit, pushups techniques) b) Transfer in wheelchair (w/c level bed shifting, w/c to standard bed shifting, w/c to high plinth, w/c to sofa) (1515-1600) - Maneesh Bhardwaj	The basics of preparing an informed consent form (1340-1400) - Smita C Acharya, Gaurav Sachdev
			Purpose and importance of conducting a research in SCI- The need (1400-1420) - Teena E Joseph, Rajesh Sharawat
		Statistical Challenges in SCI (1420-1440) - Gayatri Vishwakarma	

1430-1445	BREAK	
1445-1600	Workshop 6 Seminar Hall-1 (2 nd Floor) (Hall I) Wheelchair Yoga	Workshop 7 P & O Science Lab (2 nd Floor) (Hall J) Assessment Prescription and Fitting of Wheelchair
	Role of Yoga in SCI patients - an Overview (1445-1500) - Neena & Asha	Assistive Technology Overview (1445-1500) - Nekram Upadhyay <u>Mobility and Seating:</u> Wheelchair and Cushion Assessment and Prescription (as per WHO guidelines).(1500-1530) - Nekram Upadhyay / Randhir
	Yog aasans according to the level of injury (1500-1545) - Neena / Asha / Pragya / Pramod	Wheelchair Assembly / Fitting and Pressure Mapping (Manual and software based) (1530-1600) - Sonal
	Contraindication and benefits of yoga in SCI Yogic key notes (1545-1600) - Neena / Asha	

Consumers Workshop- 1100-1515- Lecture Theatre-1 (Near Dialysis), 2nd Floor) (Hall K)

Time	Topic
1100-1250	Session -I Moderator: Mr Shivjeet Singh Raghav
1100-1112	Do Psychosocial barriers effect Community Inclusion ? - Dr. Shashi Bhushan Kumar
1112- 1124	Is Epidural Stimulation a life line for SC? Factual status. - Dr Shakti Goel
1124 -1136	Functional and Clinical Outcomes of Telemedicine in spinal cord injury - Dr Anba Soopramanien
1136-1148	Management of Infertility in men with SCI - Mr. Shivjeet Singh Raghav
1148-1200	Vocational rehabilitation for spinal cord injury - Ms. Kshetrimayum Getila
1200-1212	Sexual rehabilitation in men with Spinal Cord Injury - Dr Fin Biering Sorenson
1212-1224	Bladder and Bowel management of persons with SCI: What a consumer should know? - Dr Dinesh Suman
1224 - 1250	Discussion
1250-1330	Lunch
1330-1425	Session-II Moderator: Dr Komal kamra
1330 - 1342	Sexual satisfaction for non- SCI female partner - Dr. Shanu Srivastva & Pragya
1342-1354	Parenting after SCI - Dr Komal Kamra
1354-1408	How does psychological well being of caregiver matter in rehabilitation ? - Dr. Stanley Ducharme
1408 - 1425	Discussion
1425-1515	Panel discussion-Making life after Spinal Cord Injury happy and worthwhile Moderator: Dr Shanu Srivastava Panelist: Dr J J Wyndaele, Dr Anba Soopramanien, Dr. Stanley Ducharme, Ms. Pragya, Mr. Shivjeet Singh Raghav, Dr Shakti Goel, Dr. Shashi Bhushan Kumar, Mrs. Komal Kamra,

Nursing Workshop
Chaikhana (1st Floor) (Hall L)
Timing-0830-1530

Time	Topic
0830-0900	Registration
0900-0915	Overview of Spinal Cord Injury - Ms Neetu Maitra
0915-0930	Acute management of SCI - Dr Khin Myo Hlo
0930-0945	Psychosocial management of SCI - Role of the nurse - Dr. Shanu Srivastava
0945-1000	Bowel management protocol of SCI - Dr Fin Biering Sorensen
1000-1030	Discussion
1030-1100	Break
1100-1115	Care of patient with neurogenic bladder dysfunction - Dr Dinesh Suman
1115-1130	Respiratory rehabilitation -Role of respiratory nurse for weaning tracheostomy with SCI - Ms. Ipsita Shee
1130-1145	Pressure sore management after spinal cord injury - Dr. Martin Donhauser
1145-1200	Respiratory management of acute tetraplegics - Dr. (Col) Vijay Dutta
1200-1215	Management of complications associated with SCI - Ms Rebecca Philip
1215-1230	Education of Nurses specializing in caring for SCI persons - Dr Doris Maier
1230-1310	Discussion
1310-1350	Lunch
1350-1405	Sexual rehabilitation after SCI – What a nurse should know? - Dr Stanley Ducharme
1405-1420	Health care associated infection (HAI) in SCI patients - Ms. Deepu Vijay
1420-1435	Moving, Lifting & Shifting of SCI patients - Ms. Mariamma Titus
1435-1450	Introducing the concept of Tele- Nursing-Indian perspective - Ms. Nishu Tyagi
1450-1505	The essential role of the rehabilitation nurses in facilitating care transition - Ms.Vandana
1505-1530	Discussion and Closing of session

Inaugural and SCI Day Ceremony
Thayagaraj Stadium, Laxmibai Nagar

Time	Topic
1700-1830	Wheelchair challenge : Wheelchair race of Health professionals vs consumers- An initiative to sensitise Health professionals on the needs of consumers
1900-1930	Inclusive Dance performance by Consumers
1930-2030	Inaugural ceremony
2030-2050	Inclusive Dance performance
2050-2100	Award Ceremony
2100-2105	National Anthem
2105 onwards	Dinner

Main Conference

Day -2

12th October, 2019

Venue Hotel Le Meridien, New Delhi

Time	Topic	
0730-0800	Registration	
0800 - 0900	Plenary Session I Chair:& Dr Sandip Chatterjee	
0800-0808	Role of MR tractography in cervical trauma/myelopathy - Dr. Suresh Pillai	
0808-0816	New Horizons in Spinal Surgery: Spine Arthroplasty - Dr Appaji Krishnan	
0816-0824	Feasibility of 3D printing in spinal trauma - Dr Bhavuk Garg	
0824-0832	Novel neuro regenerative and neuro protective strategies in SCI - Dr. Ziad M Alzoubi	
0832-0840	Role of Robotics in SCI patients rehabilitation - Dr Khin Myo Hla	
0840-0848	Long term repeated botulinum toxin injections for neurogenic detrusor over-activity after SCI - Dr Fin Biering Sorensen	
0848-0900	Discussion	
0900-1010	Plenary Session II Chairs: Dr HS Bhatoe, Dr Bhavuk Garg, Dr Sunil Katoch	
0900 – 0908	Potential of Artificial intelligence /deep learning in decision making in spinal ailments - Dr AP Prathosh	
0908-0916	Design thinking and its role in innovation for SCI management - Dr. Prashant Jha	
0916-0924	Electrical epidural stimulation after SCI: A clinical breakthrough or one more step in spinal cord research? - Prof. Amiram Catz	
0924 - 0932	Recent advances for sexual rehabilitation for SCI - Dr. J J Wyndaele	
0932 - 0940	Diaphragmatic stimulation with temporary electrodes for SCI:an innovative solution for early weaning/preventing tracheostomy - Dr Raymond Onders	
0940-0948	Enhancing psychological sexual health of people with SCI and their partners - Dr Stanley Ducharme	
0948-1000	Discussion	
1000-1040	Panel discussion Injury prevention in India: Means, ways and Innovations Moderator: Dr. H S Chhabra Panelist: Dr P S Ramani, Dr. G Balamurali, Dr. Harihara Prakash, Dr. B Mohapatra, Dr Shakti Goel, Dr. Gaurav Sachdev, Dr Mathew Varghese, Dr Geetam Tiwari,	
1040-1100	Injury Prevention in India - Dr Tanu Jain/Dr Bhatia	
1100 -1130	Tea Break	
1130 - 1300	Plenary Session III	
1130-1200	Spinal Cord Society Oration <i>Fundamental biomechanics of spinal cord injury - What we have learnt and how it has influenced SCI trauma management in the last 25 years</i> - Dr Thomas Oxland	
1200-1215	Spinal Cord Society Best Published Paper Award Chairperson- Dr Patrick Kluger	
1215 – 1300	Panel discussion : Breaking the news: When, How & by whom Moderator:Dr Shanu Srivastava, Panelist :Dr J J Wyndaele, Dr Amiram Catz, Dr Roop Singh, Dr Stanley Ducharme, Dr Shashi Bhushan, Dr Shipra Chaudhary, Mr. Shivjeet Raghav	
1300-1400	Break & GBM	
1400 - 1530	Parallel Session IV - Innovation in Cervical Spinal Trauma (8+2) Chair: Dr. PS Ramani & Dr Sarat Chandra	Parallel Session V – Innovation in Gait Rehabilitation Chair : Dr M M Ghatak & Dr Narkeesh Arumugam

1400-1408	Development of instrumentation for CVJ based on its biomechanics - Dr. Sarat Chandra	Role of Aquatic Exercises for improving Gait and Balance in SCI - Dr. Chitra Kataria
1408 - 1416	Reconstruction of Traumatic Cervical Spine with Vascular Fibular Grafts - Dr. P S Ramani	Parameter Of Safety Of Carriage And Transfer Of Spinal Cord Injury Patients: How they have changed? - Dr. Dilip Sinha
1416 - 1424	Anterior Plate fixation in cervical trauma: Is it enough? - Dr. H S Bhatoe	Hydrotherapy- treadmill walking - Ms. Ulla Bergner
1424 – 1432	Open door laminoplasty with preservation of muscle attachment of C2 and C7 - Dr. Serdar Kahraman	Safety of exoskeleton assisted walking in SCI patients rehabilitation - Ms. Shefali Walia
1432-1445	Discussion	Discussion
1445-1530	Deciding level of fixation in spinal injuries, Do we have a consensus ? Moderator: Dr Naresh Babu Panelist: Dr Patrick Kluger, Dr H S Bhatoe, Dr K Das, Dr. Gururaj , Dr Tarush Rustagi, Dr Rajat Mahajan, Dr Serdar Kahraman, Dr. Appaji Krishnan, Dr Thomas Oxland	Panel Discussion : Pressure Sore management : Mobilization or bed rest Moderator: Dr Srikumar V Panelist: Dr Doris Maier, Dr Anba Soopramanien, Dr.Martin Donhauser, Dr Gita Handa, Dr Narkeesh Arumugam, Dr Shipra Chaudhary,
1530-1600	Break	
1600-1700	Parallel Session VI-Free paper	Parallel Session VII-Free paper
	Time: 5+2 minutes Chair: Dr Shah Alam, Dr. Thomas Oxland, Dr Abrar Ahmed	Time: 5+2 minutes Chair: Dr Fin Biering Sorenson & Dr Stanley Ducharme
1600-1605	FELTIF full Endoscopic Lumbar Transforaminal Interbody Fusion in DDD Degenerative Disc Disease L5 S1 a recent New Technique Dr Manoj Sharma	Effect of respiratory muscle training on physical and mental health of spinal cord injury patients - MsRimsha Siddiqui
1605-1610	Factors predicting functional outcome following conservative management in low dysplastic lytic spondylolisthesis - Dr Srinivas Balagani	Identification of Functional Priorities and Treatment Preferences in persons with spinal cord injury in India - Ms. Nishu Tyagi
1610-1615	How a compressed spinal cord is rejuvenated in Spinal Tuberculosis- a case series of surgical approaches on 715 patients - Dr Shah Alam	Nursing education and awareness programe on spasticity facilitators to improve spasticity in spinal cord injury population - Ms. Richa Sharma
1615-1620	Microendoscopic tubular discectomy in local anaesthesia - Dr Tushar Satish Kunder	Neurogenic bowel management by initiating a bowel training program on the patient with spinal cord injury in a tertiary care hospital - Ms. Rinki Singh
1620-1625	Neuro navigation assisted pre psoas minimally invasive oblique lumbar interbody fusion (MI OLIF): New roads and impediments - Dr Suyash Singh	Complications in persons with cervical spinal cord injury in India within Six months Post-discharge - Ms. Vandana
1625-1630	Diagnostic Efficacy, Sensitivity and Specificity of Xpert MTB/RIF assay for Spinal Tuberculosis and Rifampicin Resistance - Dr Jwalant Patel	Cognitive Impairment and treatment techniques in Spinal Cord Injury: A review - Ms. Garima Wadhwa
1630-1635	A prospective, cross sectional study to find out incidence of deep vein thrombosis in high risk patients undergoing spine surgery - Dr Mahendra Gudhe	Evaluation of complications in performing ADL with HALO vest in cervical fractures - A literature review - Ms. Sweta Rathee
1635-1640	Single stage anterior decompression and biplanar global fixation of tubercular spine - Dr Ajay Gupta	Effectiveness of endurance training on physiological adaptations in paraplegic patients: a systematic review - Ms. Shikha
1640-1700	Discussion	Discussion
1700 - 1800	Parallel Session VIII Thoraco Lumbar Spinal Trauma (8 + 2) Chair: Dr Fazlul Hoque, Dr Manish Chadha	Parallel Session IX :Alternative therapies and Recent Trends Chair: Dr. Roop Singh, Dr Srikumar V
1700-1708	Management of post traumatic TL-Kyphotic Deformity: Recent trends - Dr S K Srivastava	Keeping BMI to an optimum level after Spinal Cord Injury: What should we know? - Dr Shipra Chaudhary
1708-1716	Role of Navigation in improving outcome of spine surgery	Recent trends for Community re-integration after Spinal Cord Injury: Indian Scenario

	- Dr Sudhir Dubey	- Dr Roop Singh
1716-1324	Recent trends in management of SCI with Osteoporotic spine - Dr. Yorck Kalke	The Power of Hope: Finding Meaning & Reconstructing the Self After an Acquired Disability - Dr. Divya Parashar
1724-1732	Spondylodiscitis v/s Charcots spine in SCI: A Decision Dilemma - Dr. Fazlul Hoque	Recent trends in spinal injury rehabilitation - Dr M M Ghatak
1732-1740	Missed injuries in spinal trauma - Dr. Manish Chaddha	Change in urodynamic pattern and incidence of urinary tract infection in patients with traumatic spinal cord injury practicing clean self-intermittent catheterization - Dr Srikumar V
1740-1800	Discussion	Discussion
1805-1950	Spine and Wine Session (06 case discussion each with one presenter and 04 panelists)	
	Moderator:Dr Raj Singhal, Dr S K Srivastava & Dr V S Madan	
1805-1820	Case 1: 180 degree scoliosis management options Presenter : Dr Rajat Mahajan Panelists : Dr Abrar Ahmad, Dr Agnivesh Tikkoo, Dr Manish Chadha, Dr Ziad Al Zoubi, Dr Anwarul Islam	
1820-1835	Case 2 : Scoliosis and sever osteoporosis in a 14 years girl Presenter : Dr Ziad Al Zoubi Panelists : Dr. S.K. Srivastava, Dr Vikas Tandon, Dr. Raj Singhal, Dr Nitesh Gehlot, Dr Rezaul Karin, Dr Sachin Borkar	
1835-1850	Case 3 : PJK after surgery in Degenerative scoliosis Presenter : Dr Raghavendra S Panelists :Dr Sandeep Vaishya, Dr M L Bansal, Dr Vivek Mittal, Dr Nitesh Gehlot, Dr Sarwar Jahan	
1850-1905	Case 4: Ankylosis spondylitis with kyphotic deformity Presenter : Dr. Neeraj Gupta, Panelists : Dr Kalidutta Das, Dr Serdar Kahraman , Dr Vishal Nigam, Dr Harsh Bhargava, Dr Ashok Reddy	
1905-1920	Case 5: Basilar invagination Presenter : Dr. Vijayant Kanagaraju Panelists : Dr Tarsem Lal Motten, Dr Sandip Chatterjee, Dr Tarush Rustagi, Dr V S Madan, Dr Satnam Singh, Dr Gopal Shukla	
1920-1935	Case 6: High grade spondylolisthesis Presenter : Dr. Pallav Bhatia Panelists : Dr Rabindra Pradhan, Dr Ankur Nanda, Dr Dhruvin Patel, Dr Abhishek Srivastava,Dr Kh Abdul Awal Rizvi, Dr Vineet Varghese	
1935-1950	Case 7: Neglected C1C2 or subaxial dislocation Presenter: Dr Darshan Gautam Panelists : Dr Sunil Katoch, Dr Kedar Phadke, Dr Shah Alam, Dr Neshar Ansari, Dr.Tarun Suri,Dr Arun Sharma	
2000 onwards	Cultural evening and Gala dinner13th	

Main Conference

Day -3

13th October, 2019

Venue Hotel Le Meridien, New Delhi

Time	Topics	
0730 - 0815	Parallel Session X Breakfast Symposium Special Scenarios	Parallel Session XI Breakfast Symposium Special Scenarios
	Chairpersons: Dr Manoj Sharma, Dr Naresh Babu	Chairpersons: Dr Rupinder Chahal & Dr Hitesh Modi
0730 - 0738	Special Scenario: Paediatric spinal trauma case - Dr Agnivesh Tikkoo	Role of Intraoperative neuromonitoring in predicting post operating clinical outcomes after spine surgery - Dr Hitesh Modi
0738 - 0746	Special Scenario: SCI in polytrauma case - Dr Vijayanth Kanagaraju	Arthrospine assisted percutaneous technique for lumbar disectomy - Dr Mohinder Kaushal
0746 - 0754	Special Scenario: Geriatric spinal trauma case - Dr Vivek Mittal	Role of 4 rod construct in Spine trauma /degenerative cases - Dr Rupinder Chahal
0754 – 0804	Special Scenario: Spine trauma in pregnancy case - Dr Suresh Pillai	Post operative deep wound infection in posterior spinal fixation surgery: Does it effect clinicoradiological outcomes -Dr Tarun Suri
0804-0815	Discussion	Discussion
0815 - 0900	Parallel Session XII- Rapid Fire Paper Session Chair: Dr Kh Abdul Awal Rizvi, Dr Amrithlal Mascarenhas & Dr Sandip Chatterjee	Parallel Session XIII:Rapid Fire Paper Session Chair: Dr Anba Soopramanien & Dr Shweta Jain
0815 - 0818	Transpedicular Vertebroctomy For Thoracic Spine Metastasis - Dr. Tarush Rustagi	Does functional outcome correlate with poor neurological recovery in complete (AIS A) spinal cord injuries? An Analysis of long term rehabilitation at a Military Spinal Cord Injury Centre - Dr Vyom Sharma
0818 - 0821	Superior Facet Joint Violations in single level Minimally Invasive and Open Transforaminal Lumbar Interbody Fusion: A Comparative Study - Dr Jwalant Patel	Effectiveness of customized vs prefabricated spinal orthoses in patients with SCI: A comparative study -Ms. Komal Chhikara
0821 - 0824	To study the role of PRP in augmentation of Spinal Arthrodesis - Dr Mahendra Gudhe	Respiratory status in people with spinal cord injuries after discharge - Ms. Rimsha Siddiqui
0824 - 0827	To analyze long term surgical and radiological outcomes in cervical OPLL involving C - Dr Neerav Anand Singh	Multipurpose adjustable cane - Mr. Aniket Kumar
0827 - 0830	Graduation of the learning curve from small to smaller: Evolution of tubular retractors from 18mm to 14mm in management of lumbar disc herniation. - Dr Pritem AR	Evaluation of a group-based intervention to address mental health concerns in clients with spinal cord injury - Mr. T.Mageshwari
0830 - 0833	Diaphragm pacing: is it possible to get rid of mechanical ventilation in cervical injury patients? - Dr Mohit Muttha	Impact of specialized nursing care on complications of spinal cord injury - Ms. Rebecca Phillip
0833-0836	Diaphragm Pacing With Phrenic Nerve Stimulation For Chronic Ventilator Dependence In a High Cervical Spinal Cord Injury ; Case Report On Clinical Outcome and Long Term Follow-Up - Dr Vyom Sharma	Spinal Injury in Indian Children: Review of 204 Cases - Ms. Rajesh Sharawat
0836-0839	3D printing technology in Management of Spine Injuries: A review on various technologies - Mr. Aditya Saini	Feasibility of multistage transfer training protocol for C5-C6 motor complete SCI in the Indian scenario- a retrospective study - Ms. Anagha Rajendra Kadam
0839-0842	Functional & Radiological Outcome ACDF by Using Stand-Alone Anchored Spacer in Subaxial Cervical Vertebral	

	Fracture Dislocation with Incomplete Spinal Cord Injury - Dr Sarwar Jahan	
0842-0900	Discussion	Discussion
0900 - 1000	Parallel Session XIV - Problems and Innovative Solutions Chair: Dr Sudhir Dubey & Dr Ramesh Kumar, Dr Dilip Sinha	Parallel Session XV: Problems and Innovative Solutions: Chair: Dr J J Wyndaele & Dr Doris Maier
0900 - 0908	Problems and innovative solutions in fixing osteoporotic spines - Dr Hans Joseph Erli	Problems and innovative solutions in neurogenic heterotopic ossifications - Dr. Doris Maier
0908 - 0916	Innovative techniques in cervical spine fixations in children - Dr Sandip Chatterjee	Problems and innovative solutions in prevention and management of pressure ulcers - Dr. Martin Donhauser
0916 – 0924	Problem and solutions in Delayed Surgery of Lumbar Spine Fractures: Do Severe Cauda Equina Lesions (CE) Recover? - Dr Abrar Ahmed	Advances in care of patients with neurogenic bladder dysfunction - Dr. Dinesh Suman
0924 – 0932	Problems and solutions of Sacral Insufficiency Fractures Mimicking Lumbar Spine Pathology - Dr Ramesh Kumar	Problem of high Prevalence of Osteoporosis and Morphometric Vertebral Fractures in Indian Males Aged 60 Years and Above: Should Age for Screening Be Lowered? - Dr U Singh
0932 – 0940	Problem and Solution : Post-traumatic neglected cervical facet dislocation: - Dr Mihir Bapat	Challenges of living with an SCI in Mauritius in 2019: need for international collaboration - Dr Anba Soopramanien
0940 – 0948	Problems and innovative solutions in the elderly acquiring SCI, and in the ageing SCI-person, in HIC - Dr Rainer Abel	Issues of extreme weather for people with SCI and the importance of using telehealth - Dr Marcalee Alexander (Through Skype)
0948-1000	Discussion	Discussion
1000 -1100	Parallel Session XV Rare Complications in Spine Surgery: Innovation in Management Chair: Dr Raj Singhal, Dr G Balamurali & Dr Ziad M Alzoubi	Parallel Session XVI Innovations in Basic and Applied Research Chair: Dr Khin Sein Yin & Dr Harihara Prakash
1000-1008	Blindness after spine surgery - Dr. G Balamurali	Scaffolds for inter-vertebral disc???? Role of neural feedback from below the side of injury - ????
1008-1016	Retrograde ejaculation after anterior lumbar surgery - Dr. Amish Sanghvi	Ideal innovative model of SCI care in developing countries - ?????
1016-1024	Major vessel injury in spine surgery – - Dr. Shah Alam	Psychological Aspects of Aging with SCI: Recent Updates - Dr Stanley Ducharme
1024-1032	Esophageal perforation after anterior cervical spine injury - Dr. Rabindra Pradhan	Surface spinal stimulator and its role in rehabilitation - Dr Harihara Prakash
1032-1040	Sympathetic disturbances after spine surgery - Dr. Raj Singhal	Effectiveness of activities based therapy in comparison with surface spinal stimulation in patients with traumatic incomplete SCI for activation of CPG for locomotion: an innovative study protocol - Dr Narkeesh Arumugam
1040-1100	Discussion	Discussion
1100-1130	Tea Break	
1130- 1300	Session XVII -Plenary session	
1130-1145	Options and challenges in managing patients with Neurogenic Voiding Dysfunction who are unable to do CIC - Prof Helmut Madersbacher	
1145-1200	Biological options in Spine Surgery - Dr. S.M. Tuli	
1200-1215	Promoting innovation but ethically - Dr Geeta Jotwani	
1215-1230	Empowering PWDs in India - Mr Kishore B Surwade, Ministry Social Justice and empowerment	
1230-1310	Rehab surgery interface: Do we have the ideal synergy	

	Moderator: Dr Gita Handa Panel: Dr Fin Biering Sorenson, Dr P S Ramani, Dr Srikumar V, Dr S K Srivastava, Dr Patrick Kluger, Dr S M Tuli, Dr Hans Joseph Erli, Dr Rainer Abel, Dr Nitesh Gehlot, Dr Kh Abdul Awal Rizvi,	
1310-1400	Lunch Break	
Luncheon workshop	PANEL DISCUSSION: SCI specific web portal to achieve favourable Community-health Outcomes: What should be included? Coordinators: Ms. Nishu Tyagi, Dr Shakti Goel, Dr H S Chhabra, Mr Dawinder Singh, Dr U Singh, Mr Baljit Bedi, Mr Shivjeet Singh Raghav, Dr Roop Singh, Dr Anba Soopramanien, Dr HariHar Prakash, Ms. Neetu Maitra, Dr Sunil Sharma, Ms. Komal Kamra, Ms. Pragya, Ms. Garima	
	Session XVIII	
1400-1530	Spinal Cord Society -Gold Medal Paper Award Chair: Dr P S Ramani & Dr Patrick Kluger Judges: Dr P S Ramani, Dr Patrick Kluger, Dr Hans Joseph Erli, Dr Rainer Abel, Dr Sarat Chandra, Dr S K Srivastava	Spinal Cord Society -Gold Medal Paper Award Chair: Dr U Singh & Dr Narkeesh Arumugam, Judges: Dr Khin Sein Yin, Dr Narkeesh Arumugam, Dr Yorck Bernhard Kalke, Dr Fin Biering Sorensen, Dr Doris Maier, Dr U Singh, Dr Anba Soopramanien
1400-1406	Development of a Comprehensive Classification for Adult Spinal Deformity - Dr Naresh-Babu J	Two hundred repetitions of isolated muscle contractions per day do not increase the strength of muscles directly affected by spinal cord injury: a randomized controlled trial - Ms Lovely
1407-1413	Pre-operative treatment of osteoporosis decreases risk of complications after multi-level spinal fusion - Dr Nikhil Jain	Efficacy of Home care rehabilitation services in Spinal Cord injured Patients - Ms Rimsha Siddiqui
1414-1420	Three dimensional invitro spinal disc culture - Dr Puja Sawhney Nagpal	Virtual Reality System for spinal cord injured individuals: A research toy and rehabilitation tool or training device? - Ms Nishu Tyagi
1421-1427	Comparison of functional outcomes between lumbar interbody fusion and discectomy in massive disc prolapsed - Dr Anuj Gupta	Efficacy of electrical stimulation augmented virtual reality training in improving standing balance in incomplete spinal cord injury - Shefali Walia
1428-1434	Pattern of spine fractures in sub-himalayan region: experience at a tertiary care hospital - Dr P.V.Sudhakar	Development of a standing balance scale for individuals with spinal cord injury - Ms Meenakshi Singh
1435-1441	Anterior versus posterior approach for treatment of thoracolumbar burst fracture: A comparative prospective study - Dr Arvind singh	Effect of Raja Yoga Meditation on psychological and functional outcomes in spinal cord injury patients - Mr. Randhir Ranjan
1442-1448	Influence of Etiology and Onset of Deformity on Spatiotemporal, Kinetic, Kinematic and Electromyography Gait Variables with Scoliosis - Dr Bhavuk Garg	Effect of electrical stimulation of trunk muscles on walking capacity and dynamic balance in patients with incomplete spinal cord injury - Mr. Pankaj kumar
1449-1455	Multi-channel urodynamic study as an objective criterion for the diagnosis of cauda equina syndrome - Dr Kalyan Kumar Varma	Development and psychometric analysis of a new tool in assessing burden of caregiving for individuals with spinal cord injury. - Navita Sharma
1456-1502	A prospective study to assess the fusion by ct scan of oblique lumbar interbody fusion in degenerative lumbar spine disorders with a minimum 2 year follow up - Dr Sharvil Gajjar	Development of Wearable Artificial Muscle for Tetraplegic Hands - Dr Shakti A Goel
1502-1530	Discussion	Discussion
1530-1600	Spinal Cord Society- Best Poster Award Chair: Dr S K Srivastava & Dr Ziad Al Zoubi, Dr Ziad Al Zoubi, Dr P S Ramani, Dr Raj Singhal, Dr Patrick Kluger, Dr Naresh Babu, Dr S K Srivastava, Dr Dilip Sinha	Spinal Cord Society- Best Poster Award Chair : Dr JJ Wyndaele, Dr Gita Handa, Dr JJ Wyndaele, Dr Gita Handa, Dr Khin Myo Hla, Dr Harihara Prakash, PG Quiz (1530-1615) at Desire Hall
1600-1630	Tea Break	
1630-1700	Panel Discussion Is fusion mandatory in spinal trauma Moderator: Dr Amrithlal Panelist:Dr. Yorck Bernhard Kalke,Dr K L Kalra,	CME for post graduates (1615-1800)at Desire Hall (20+5) Clinical examination of Spine (1615-1640)

	Dr Dr Dilip Sinha, Dr Raj Singhal, Dr Shah Alam, Dr Pallav Bhatia, Dr Ankur Nanda, Dr M L Bansal, Dr Neeraj Gupta, Dr Vikas Tandon, Dr Darshan Gautam, Dr Dhruvin Patel, Dr Manoj Sharma	<p>- Dr Sudhir Kapoor</p> <p>Decision making in tuberculosis of spine(1640-1705)</p> <p>- Dr Mathew Varghese</p> <p>Radiological Evaluation of Spine (1705-1730)</p> <p>- Dr Harsh Mahajan</p> <p>Management of Prolapse Intervertebral Disc(1730-1755)</p> <p>- Dr U Singh</p>
1700-1745	Free Papers Chair: Dr Mathew Varghese & Dr K L Kalra&Dr Manoj Sharma	
1700-1707	Outcomes of discectomy in young adults with large central lumbar disc herniations presenting with predominant leg pain	- Dr Shrikant S Sagane
1707-1714	Conservative management for late-presenting dural tears after spine surgery: An institutional experience, literature review and mini-meta analysis	- Dr Kalyan Kumar Varma Kalidindi
1714-1721	Evaluation of healing of lesion in tuberculosis (TB) spine by contrast MRI and 18-FDG PET/CT Scan	- Dr Samarth Mittal
1714-1728	Clinicoradiological outcome of PEEK cage for anterior column reconstruction in TB spine	- Dr Nikhil Goyal
1728-1735	Are there differences between patients with extreme and non-extreme lumbar canal stenosis in terms of pain, function or complications following spinal decompression using a tubular retractor system? A comparative study	- Dr Swaroop Das
1735-1742		
1745-1800	Valedictory	

Post conference Cadaveric Workshop
Workshops for Surgeons
Organising Secretary- Dr H S Chhabra, Dr Ramesh Kumar
Co-Organising Secretary- Dr Ankur Nanda, Dr Neeraj Gupta, Dr Tankeshwar Baruah
Basic and Advanced Cadaveric Workshop & Video demonstrations
(Venue: Anatomy Lab VMCC) : (0800-1700)

Session I Basic Spine Instrumentation	
(0800-1000)	(A) Thoracic and Lumbosacral Fixation (B) Sacral screw Fixation (C) Cervical lateral mass screw fixation
0800-0807	Lecture and video demonstration of Thoracolumbar pedicle screw fixation - Dr Patrick Kluger
080-0814	Lecture and video demonstration of sacral screw fixation - Dr M L Bansal
0814-0821	Lecture and video demonstration of lateral mass screw fixation - Dr Hans Joseph Erli
0821-1000	Cadaveric Hands on Session - Dr Hans Joseph Erli, Dr Patrick Kluger, Dr ML Bansal, Dr Rabindra Pradhan, Dr Vishal Nigam, Dr Saransh Gupta, Dr Tarun Suri, Dr Sachin Borkar
1000-1030	Tea Break
Session II Cervical Spine Instrumentation and Approach	
(1030-1300)	(A) C1-C2 fixation, C2 laminar screw fixation (B) Cervical Pedicle Screw Fixation
1030-1037	Lecture and video demonstration of C1-C2 fixation, C2 Laminar Screw Fixation - Dr Abhishek Srivastava
1037-1044	Lecture and video demonstration Cervical Pedicle Screw Fixation - Dr Vikas Tandon
1044- 1215	Cadaveric Hands on Session - Dr Patrick Kluger, Dr Vikas Tandon, Dr Abhishek Srivastava, Dr Hans Joseph Erli, Dr Tarsem Lal Motten, Ravi Sreenivasan.
1215- 1300	Break

Session III Osteotomy : Osteotomy Techniques and Sacro-pelvic instrumentation	
1300-1500	(A) Osteotomies of spine (SPO/PSO/VCR) (B) Sacral Pelvic Fixation
1300-1307	Lecture and video demonstration Osteotomies of spine (SPO/PSO) - Dr Rajat Mahajan
1307-1314	Lecture and video demonstration Osteotomies of spine (VCR) - Dr Bhavuk Garg
1314-1321	Lecture and video demonstration Sacral Pelvic Fixation - Dr Ramesh Kumar
1321-1500	Cadaveric Hands on Session - Dr Bhavuk Garg, Dr Rajat Mahajan, Dr Ramesh kumar, Dr Tankeshwar Baruah, Dr Neshar Ansari, Dr Hans Joseph Erli
1500-1530	Tea Break
Session IV Anterior approaches and OLIF	
1530-1700	(A) Anterior Cervical Approach (B) Anterior Lumbar and retroperitoneal approach (C) OLIF
1530-1537	Lecture and video demonstration of Anterior Cervical Approach • Dr Neeraj Gupta
1537-1544	Lecture and video demonstration of Anterior and Retroperitoneal Lumbar Approach • Dr B Mohapatra
1544-1551	Lecture and video demonstration DLIF - Dr TarushRustagi
1551-1700	Cadaveric Hands on Session - Dr TarushRustagi, Dr B Mohapatra, Dr Bhavuk Garg, Dr. Vikas Tandon, Dr. Atul Sarin, Dr Neeraj Gupta