



Stroke & Neurointervention Foundation-SNIF
13th Delhi Course on
NEUROINTERVENTION

25th – 27th April 2018

in Collaboration with
Institute of Neuroradiology
University Hospital Zurich, Zurich, Switzerland



UniversitätsSpital
Zürich



Klinik für
Neuroradiologie





Dr. Shakir Husain

Chairman, Stroke & Neurointervention Foundation (SNIF)

Senior Consultant, Neurointervention, NEO Hospital, Noida

*Senior Consultant & Deputy Head, Interventional Neuroradiology
Co-director, International Fellowship Programme UniversitätsSpital
Zürich Klinik für Neuroradiologie , Zürich, Switzerland*

Dear colleagues and friends,

It gives me great pleasure to invite you to participate in the 13th *Delhi Course on Neurointervention* to be held from **25 – 27 April 2018**. This collaborative and continued effort of more than one decade, between Stroke & Neurointervention Foundation (SNIF) and the Department of Neuroradiology, University Hospital Zurich, Switzerland is a part of the passionate commitment and a mission to advance knowledge and science of understanding of complex and most eloquent organ system, the human nervous system with special emphasis on understanding and practice of neurovascular diseases by minimally invasive Neurointervention/ Neuroendovascular approach in an unbiased manner.

The primary objective of this residential course is to learn and discuss anatomical, biological, embryological, and phylogenetic aspects of various neurovascular diseases and build up a philosophy and knowledge base, a base on which new generation of neurointerventionists and neuroscientists continue to learn for the practice and research field of neurointervention. This course provides an opportunity to learn from the masters through their thought provoking lectures and in depth discussions on the intricacy and technical aspects of the Neurointervention practice.

Generally the participants are from diverse fields of neurosciences including neurology, neurosurgery and neuroradiology making it an apt platform for a detailed discussion from different perspective. The Neuroendovascular technology is advancing *pari passu* with the advancement of the knowledge base and newer devices are appearing in practice arena making it imperative to understand their advantage and benefits of use in a thoughtful manner. Therefore, we focus equally on the materials and devices and its safe application through conducting hands-on practical material workshops and video workshops. This year we have main focus on the acute stroke intervention and complex aneurysms of the brain.

To achieve an objective of giving a comprehensive and in depth view on the subject we have carved the program and chosen eminent, dedicated, experienced faculty to deliver educational information and discuss with the participants through their vast experience of this field. We propose you, a high quality of educational contents without binding on time in this course.

Delhi is wonderful in April with flowers blooming all over.

I, on behalf of the faculty, organizing committee of the course and myself, look forward to welcoming you in this course.

Shakir HUSAIN

Faculty of the Course



Prof. Dr. Anton Valavanis
Professor Emeritus, Institute of Neuroradiology
Klinik für Neuroradiologie,
Head, Clinical Neurosciences center
UniversitätsSpital Zürich, Zürich, Switzerland

Prof. Anton Valavanis started his career as an Assistant Professor in 1984 and obtained full professorship at the chair of neuroradiology in 1994. The same year he founded the Institute of Neuroradiology at the University of Zurich. He retired from this position in December 2017. He is currently working as a professor emeritus and Head of clinical neurosciences center, university hospital Zurich. The institute is the leading center of Interventional Neuroradiology worldwide.

He co-founded the Clinical Neuroscience Center at the University Hospital Zurich, where he currently serves as Chair of the governing council. He is also a founding member of the European Society of Head and Neck Radiology, the Swiss Society of Neuroradiology and other prestigious organizations. He served as president of the World Federation of Neuroradiological Societies from 1997 to 2002 and has been President of the Swiss Society of Neuroradiology since 2001.

He has received numerous honors, including the Scientific Award of the German, Swiss and European societies of neuroradiology and the James Bull Medal of the British Society of Neuroradiologists. He has served as Editor-in-Chief of *Neuroradiologia Helvetica*, and *Neuroradiology* and a member of editorial board of various journals on neuroradiology, neurosurgery and skull base surgery.

Apart from extensive lectures across the world, Prof Valavanis has authored or co-authored 200 original scientific publications and two books. In 1992 he founded the 'Zurich Course on Interventional Neuroradiology', which has been held annually ever since.

He has been an inspiration behind the 'Delhi Course' and has been integral part of it since it's beginning.



Dr. Shakir Husain

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Senior Consultant, Neurointervention, NEO Hospital, Noida

*Senior Consultant & Deputy Head, Interventional Neuroradiology
Co-director, International Fellowship Programme UniversitätsSpital
Zürich Klinik für Neuroradiologie , Zürich, Switzerland*

Dr Shakir Husain did his medical graduation and post graduation from RNT Medical College, Udaipur, Rajasthan, followed by DM (Neurology) from G.B.Pant Hospital, Delhi University. He trained in Neurointervention from University Hospital Zurich in 1997 – 1999.

He developed one of the first independent Departments of Neuroendovascular Therapy and Stroke at Sir Ganga Ram Hospital and served as its Chief of Services for over a decade.

After he moved to Max Healthcare in 2009, he developed one of the first independent and comprehensive departments of Interventional Neurology & Stroke treatment, which is at par with any best center in the world. From Feb 2014, he joined as Director of Interventional Neurology & Stroke at Saket City Hospital, New Delhi where he developed department of Interventional neurology & stroke with integrated stroke intensive care unit and a biplane neurovascular suit. In March 2015 he moved again to Max Institute of Neurosciences. He joined Neo Hospital, Noida in June 2015 where he developed neurointervention program and since then he is working as a senior consultant. He joined UniversitätsSpital Zürich, Klinik für Neuroradiologie in Oct 2017 where he is working as a consultant.

He single handedly conceptualized and started the Delhi Course on Neurointervention and has shaped it to what it has become today! He also runs a one-year Fellowship Program (Egas Moniz Fellowship in Interventional Neurology & Stroke) and is actively involved in teaching and developmental activities of Neurointervention in Asia Pacific region.

He is the founding chairman of the Stroke & Neurointervention Foundation (SNIF), which has been actively involved in the advancement of knowledge, science and art on neurointervention in Asia Pacific region.



Dr Michihiro Tanaka

Director – Neurosurgery Kameda Medical Center Kamogawa City, Chiba – JAPAN

Dr. Tanaka is board certified in Neurosurgery and Neuroendovascular therapy, with subspecialties in interventional neuroradiology, cerebrovascular surgery, neuroanatomy, functional vascular anatomy, cerebral blood flow, and metabolism. He is a one of the leading minimal invasive neurosurgeons in Japan. After training at Yamanashi University, Yokohama City University Hospital, and the National Cardiovascular Center in Osaka, he became a clinical fellow in Zurich, at University Hospital's Institute of Neuroradiology. Later he became an associate professor at the same institute. Currently he is in Kameda Medical Center where he heads the Department of Neurosurgery.



Dr. MASAKI KOMIYAMA

Director, Center for Cerebrovascular Diseases and Department of Neuro-Intervention Osaka City General Hospital, Osaka, Japan

Dr. Komiyama is a board-certified neurosurgeon, and also a neuro-endovascular therapist in Japan. He was graduated from Keio University in Tokyo, and started his medical carrier in plastic and reconstructive surgery first, and extended the fields to neurosurgery and neurointervention. Amongst the field of neurointervention, He is a specialist in pediatric neurointervention. He is also specialized in the functional neurovascular anatomy. He is now an interventional section editor of the journal 'Neuroradiology'.



PD Dr. Dr. Zsolt Kulcsár

Senior Consultant & Head, Interventional Neuroradiology

Co-director, International Fellowship Programme

Klinik für Neuroradiologie,

UniversitätsSpital Zürich, Zürich, Switzerland

Zsolt Kulcsár works as interventional neuroradiologist at University Hospitals Zurich, Service of Diagnostic and Interventional Neuroradiology, heading the unit of Interventional Neuroradiology. He worked in past as an interventional neuroradiologist at Geneva University Hospitals, Service of Diagnostic and Interventional Neuroradiology, heading the unit of Interventional Neuroradiology. He has a PhD degree in Clinical Neurosciences and a habilitation degree in Radiology. He has major scientific interest in neurovascular diseases, specifically aneurysms and vascular malformations. He has been implicated in clinical and experimental research related to aneurysm disease understanding and therapy.

Dr. Kulcsár is scientifically active in the clinical field too, with focus on the clinical aspects of neurovascular diseases, like ischemic and hemorrhagic stroke. He has participated in several single- and multicenter clinical studies in the field.



Dr Keyvan Edraki

Neurosurgeon and Interventionist

Shohada-e-Tajrish Hospital, Tehran - IRAN

Dr Edraki is a Persian National Board certified Neurosurgeon. He trained for Interventional Neuroradiology in University Hospital's Institute of Neuroradiology, Zurich, Switzerland. He later spent over a year at the Instituto Nacional De Neurologia Y Neuro cirogia, Unam Mexico, to obtain a fellowship in Endovascular Therapy. He is a pioneer and one of the leading endovascular neurosurgeons in Iran.



Dr. Yoshifumi Hayashi
Management and Clinical Director Neurosurgeon
Sunrise Japan Hospital
Phnom Penh, Cambodia

2005 Graduated from Tokyo University
2005 Kameda Medical Center
2009 Kitahara International Hospital, neurosurgery department
2012 Director of department of international neuroradiology
2016 Sunrise Japan Hospital Phnom Penh
Management and clinical director

Engaging in founding the first stroke center in Cambodia with fully equipped in acute stroke management.

AGENDA

Day – 1 (25th April 2018)

Carotid Stenting and ICAD:

12.00 – 1.00 Registration & Lunch

1.00 – 1.30 Welcome & Introduction: **Shakir Husain**

1.30 – 2.10 Carotid artery disease: Aetiopathogenesis, clinical presentation and Management **Y. Hayashi**

2.10 – 2.40 Technique of Carotid artery Stenting with use of Protection devices **M. Tanaka**

2.40 – 3.20 Technique of Carotid artery Stenting without use of Protection device **S. Husain**

3.20 – 3.40 **Discussion**

3.40 – 4.00 **Coffee Break**

4.00 – 4.40 Extra-cranial dissection and stroke: management strategy.
S. Husain

4.40 – 5.20 Intervention in Intracranial Cranial Atherosclerotic Disease: Current perspective, Case selection & Technique. **S. Husain**

6.00 – 6.10 Discussion

6.10 - 6.30 Video workshop & Case Discussions: Carotid Stenting, Intracranial Stenting
S. Husain, M. Tanaka,

6.30 – 7.30 Material Workshop, Carotid stenting, Intracranial Stenting

8.00 - 9.00 **Dinner**

Day -2 (26th April 2018)

Brain Aneurysm:

7.00 – 8.00 Breakfast

8.30 – 9.00 Functional anatomy of intracranial aneurysms **M. Komiyama**

9.00 – 9.30 Wide neck aneurysm management with intracranial stent assistance. **M. Tanaka**

9.30 – 10.00 Embolization of aneurysm with balloon assisted technique. Hayashi

10.00-10.30 Giant aneurysm: Parent vessel preservation approach of management. **K. Edraki**

10.30 – 10.45 Discussion

10.45 – 11.00 *Coffee Break*

11.00 – 11.30 Complex un-ruptured vertebra-basilar aneurysms: Flow diversion in Endovascular approach. Z **Kulcser**

11.30 – 12.30 Complex and giant intracranial aneurysms: Management strategies.
A. Valavanis

12.30 – 1.00 Peripheral dissecting Aneurysms: Pathophysiology and Endovascular Treatment.
S. Husain

1.00 - 1.30 Aneurysm in Paediatric population. **M. Komiyama**

1.30 – 1.45 Discussion

2.00 - 2.30 *Lunch*

2.30 – 3.30 Video workshop: techniques of the endovascular Coiling of Aneurysm (stent Assisted coiling, balloon assisted coiling, double catheter technique, pipeline repair)

S. Husain, M. Tananka, M. Komiyama, Z Kulcser, K Edraki

3.30 - 3.45 GROUP PHOTOGRAPH

3.45 – 4.00

Coffee Break

4.00 – 4.30 **Poster Walk through & Discussion**

4.30 – 5.00 Material Workshop and Technique demonstration on
Flow models: Aneurysm Coiling. **Shakir Husain**

5.00 – 6.30 *Training on simulation models.* **Shakir Husain**

7.30 - 10.00

COURSE DINNER

Day- 3 (27th April 2018):

Acute Stroke Intervention (ASI)

7.00 – 8.00 Breakfast

8.30 – 9.00 Ischemic Stroke In Pediatric Population: **M. Komiyama**

9.00 – 9.30 Imaging modalities for acute ischemic stroke. **M. Tanaka**

9.30 – 10.00 Mechanical Thrombectomy in Stroke Intervention: Case selection and technique **Z. Kulscar**

10.00 – 10.30 Acute Stroke due to ICA occlusion: concept and technique of revascularization.
Z. Kulscar

10.30 – 11.00 Discussion

11.00 – 11.15 Coffee Braeak

11.15 – 11.45 Acute revascularization in ICAD: Indications of Primary Angioplasty and/or Stenting. **S. Husain**

11.45 – 12.45 Vascular collateral organization in acute ischemic stroke and its implications for interventional stroke treatment, **A. Valavanis**

12.45 – 1.30 Discussion

1.30– 2.00 Lunch

2.00 – 3.00 Case presentations: Acute stroke Intervention.

3.00 – 4.00 Panel discussion: Case presentations by the Participants

4.00 – 4.15 Coffee break

4.15 – 5.30 Material workshop on techniques of mechanical thrombectomy, stent retrievers, suction thrombectomy. Basics of setting up access system. How to overcome difficulties in complex arch.

5.30: End of Course

Registration fee:

For India and SAARC Nations: INR 15,000/-

For Other Nations: USD 550

THE REGISTRATION FEE INCLUDES COURSE FEE, TWIN-SHARING ACCOMMODATION (check in 25th April 12PM; Check out 27th April 11AM) AND ALL MEALS FOR THE DURATION OF THE COURSE, GALA DINNER AND REGISTRATION KIT.

Registration fee to be sent by a demand draft in the name of **"Stroke & Neurointervention Foundation"** payable at Delhi OR by online bank transfer as detailed below.

ONLINE TRANSACTION DETAILS:

FOR DOMESTIC PARTICIPANTS :

Account Name:	STROKE AND NEUROINTERVENTION FOUNDATION
Account No.	061488700000151
IFS CODE	YESB0000003 (Used for RTGS &NEFT Transactions)
MICR CODE	110532002
BANK	YES BANK
ADRESS	PLOT NO :11/48,SHOPPING CENTRE, DIPLOMATIC ENCLAVE, MALCHA MARKET CHANAKYAPURI, DELHI-110021
DISTRICT	NEW DELHI
STATE	DELHI
BRANCH	CHANAKYAPURI, NEW DELHI
PHONE NO	011-30259000
BRANCH CODE	000003

FOR INTERNATIONAL PARTICIPANTS:	
Beneficiary Name	ADIONA TRAVELS PVT. LTD.
Bank Address	SCO-15, Sector 14, Gurgaon-122 001, Haryana
Bank name	HDFC BANK
EEFC A/c No.	50200014934713
Swift Code	HDFCINBB
IFSC Code	HDFC0000090
MICR	110240012

Registration form duly filled along with a DD, a CV and two reference letters to be sent to the following address:

Course Director

DR. SHAKIR HUSAIN
A- 1/704, Eldeco Ananda Apartments
Sector 48, NOIDA – 201301
Uttar Pradesh, INDIA
Ph: +91-9810120942
Email: delhcourse@gmail.com
Website: www.delhcourse.com

For any kind of assistance contact:

Course Coordinators:

Ms. Elizabeth Siju	:	+919873548918
Ms. Shilja	:	+919999027087
Dr. Moinul Haq	:	+919847018366
Dr. S. Vanchilingam	:	+919442501101
Dr. Deep Das	:	+91 98-30-211637
Dr. Gautham S P	:	+91 90-03-116212
Dr. Ateequr Rahman	:	+91 99-89-709877

Email: delhcourse@gmail.com

Course Venue:

Hotel Radisson Blu Plaza

Mahipalpur Bypass, Block R, Mahipalpur Village,
Indira Gandhi International Airport, New Delhi, Delhi 110037

Phone: 011 2677 9191



Registration Form

13th Delhi course on Neurointervention

25 - 27 April 2018

Name: -----

Qualification: DM (neurology) / MCh (Neurosurgery) / DM (Neuroradiology) / other (specify)

(please tick appropriate)

Designation: -----

Practicing Neurointerventionist / Fellow / Resident (please tick appropriate)

Department & Institute: -----

City -----

Address for Correspondence: -----

-----City -----Postal code-----

Email address: _____

Mobile no: _____

Names of Referee-1-----

Referee- 2 -----

Demand Draft No. -----PAN CARD NO.-----

Date

Signature

Please send registration form along with registration fee (demand draft) along with two reference letters and a CV to Course Director at following address.

Dr. Shakir Husain

A - 704, Eldeco Ananda Apartments, Sector 48, NOIDA – 201301

Uttar Pradesh, INDIA Ph: +91-9810120942



Indira Gandhi International Airport to Radisson Blu Plaza Hotel Drive 3.1 km, 7 min



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DELHI COURSE ON NEUROINTERVENTION