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SKILL
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SKILL
Centers of excellence

SKILL
NeuroElite fellows program

SKILL
Training centers

SKILL™

Stroke **K**nowledge **I**nitiatives
for **L**earning and **L**eadership

SKILL program overview

At Stryker, we're committed to partnering with you to advance patient care with the right medical education at the right time in your career. With innovative, tailored ischemic and hemorrhagic stroke education programs, we support your needs to address the challenges of patient management—all with the shared, ultimate goal of improving lives.

SKILL e-lab

Engage in Stryker's interactive, experiential e-learning platform. SKILL e-lab shares knowledge on anatomy, pathology, patient management, procedures, techniques and more—directly to your desktop or tablet.

SKILL NeuroElite fellows program

Gain experience and confidence while networking with your peers. Our interactive and personalized curriculum provides comprehensive resources and training led by respected experts to support you throughout your fellowship.

SKILL Centers of excellence

Stay ahead of patient management trends while building a foundation of basic sciences, professional standards and clinical training. Our centers of excellence around the world offer on-site, customized education from leading experts and institutions.

SKILL Training centers

Take your experience to the next level at Stryker's fully equipped training centers. Physicians and medical staff enjoy targeted, personalized training in comprehensive, state-of-the-art facilities, equipped with C-arm, simulators, flow models and more.

SKILL e-lab

Whether you're a nurse, technician, stroke coordinator, fellow, experienced physician or other key caregiver along the patient pathway, Stryker's SKILL e-lab provides an interactive, experiential e-learning platform.
This in-depth, online resource shares knowledge on anatomy, pathology, patient management, procedures, techniques and more—directly to your desktop or tablet.

Contact us to learn more

SKILL NeuroElite fellows program

Gain experience and confidence while networking with your peers through this comprehensive program, delivering outstanding educational opportunities to neurointerventional fellows in their final year of residency. The interactive and personalized curriculum provides a dynamic platform for the exchange of knowledge, with resources and training sessions led by respected experts. All designed to support you throughout your fellowship. Our educational programs include:

- Hands-on product trainings
- Technology courses
- Simulation trainings
- National symposiums

Contact us to learn more

SKILL NeuroElite fellows program

SKILL NeuroElite fellows program curriculum

Procedural and product introduction

SKILL Training centers

On location

Salt Lake City, UT – US
Suzhou – China
Amsterdam – Europe

Procedural and product immersion

SKILL e-lab

Independent case study

Delivered and shared on an interactive platform

Procedural and product in practice

SKILL Centers of excellence

Peer-to-peer training in our global centers of excellence led by top experts in neurointervention

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SKILL Centers of excellence

Stay ahead of evolving patient management trends while building a strong foundation of basic sciences, professional standards and clinical training. With on-site education from leading experts and institutions, our centers of excellence around the globe offer a full training pathway. Each course is customized based on learning needs, with progressive levels of training to advance to neurointerventional education. Participants increase their expertise through a full range of learning opportunities, including:

- Live cases
- Case discussions
- Lectures
- Practice with flow models, simulators and animal labs

Click here to see course list

SKILL Centers of excellence

	Beginner (at least 10 cases)	Intermediate (between 20 & 50 cases)	Advanced (at least 50 cases)
Acute ischemic stroke	• Barcelona, Spain • Istanbul, Turkey • Montpellier, France	• Geneva, Switzerland • Rotterdam, The Netherlands	• Aachen, Germany • Montpellier, France (full immersion) • Hong Kong • Singapore • Taipei, Taiwan
Hemorrhagic	• Le Kremlin-Bicêtre, France • Oxford, UK • Bangkok, Thailand	• Budapest, Hungary • Lubeck, Germany • Bangkok, Thailand	• Nijemegen, The Netherlands • Montpellier, France (full immersion) • Paris, France • Le Kremlin-Bicêtre, France • Gurgaon, India
Intracranial atherosclerosis (ICAD)			• Taipei, Taiwan

Click here to see course list

SKILL Centers of excellence

Acute ischemic stroke

	Type	Level	Format	Location	Language(s)
EMEA	AIS teaching course	Beginner	Lectures, animal lab, case discussions	Barcelona, Spain	English (Spanish available upon request)
EMEA	AIS patient management, tips and techniques	Beginner	Lectures, case discussions, live cases	Istanbul, Turkey	English, Turkish
EMEA	AIS patient management: Multidisciplinary approach	Beginner	Lectures, flow models, case reviews, case discussions	Montpellier, France	English, French
EMEA	AIS patient selection and imaging	Intermediate	Lectures, flow models, case reviews, CT analysis	Rotterdam, The Netherlands	English, Dutch
EMEA	Adapting technique based on clot composition	Intermediate	Lectures, flow models, case discussions	Geneva, Switzerland	English, French, Italian
EMEA	Combined technique	Advanced	Lectures, animal labs, flow models	Aachen, Germany	English (Russian available upon request)
EMEA	Full immersion week	Advanced	Case attendance, lectures, case discussions	Montpellier, France	English, French
Asia Pacific	Advanced acute ischemic stroke training	Advanced	Lectures, case discussions, flow models, animal lab	Hong Kong, China	English, Mandarin
Asia Pacific	Acute ischemic stroke training	Advanced	Lectures, case discussions, flow models, animal lab	Singapore	English
Asia Pacific	Combined technique	Advanced	Lectures, flow models, case discussions	Taipei, Taiwan	English, Mandarin

Click to see full course details

Contact us to learn more about course enrollment

SKILL Centers of excellence

Hemorrhagic stroke

	Type	Level	Format	Location	Language(s)
EMEA	Oxford aneurysm teaching school	Beginner	Lectures, tutorials by expert KOLs, flow models, simulation	Oxford, United Kingdom	English
EMEA	Flow diverter technique and patient management	Beginner	Live cases, lectures, prerecorded cases platform, case sharing	Le Kremlin-Bicêtre, France	English, French
EMEA	Stent-assisted coiling	Intermediate	Lectures, live cases, flow model	Lubeck, Germany	English, German
EMEA	Complex aneurysm treatment: Balloon, stent and flow diverter techniques	Intermediate	Lectures, live cases, flow models	Budapest, Hungary	English
EMEA	Flow diversion technique	Advanced	Lectures, live cases, animal labs, flow models	Nijmegen, The Netherlands	English, German, Dutch
EMEA	Stroke patient management and treatment (hemorraghic and ischemic)	Advanced	Pre- and post-deployment patient management, anesthetist lectures on D.A.P.T., lectures, live cases, interactive cases debriefing	Paris, France	English, French
EMEA	Full immersion week	Advanced	Case attendance, lectures, case discussions	Montpellier, France	English, French
EMEA	Immersion days (2)	Advanced	Live cases, lectures, prerecorded cases platform, case sharing	Le Kremlin-Bicêtre, France	English, French
Asia Pacific	Aneurysm access and coiling	Beginner	Recorded aneurysm coiling cases, hands-on, case discussions	Bangkok, Thailand	English
Asia Pacific	Endovascular aneurysm treatment with balloon and stent-assisted coiling	Intermediate	Lectures, case discussions, flow model, animal lab	Bangkok, Thailand	English
Asia Pacific	Flow diversion technique	Advanced	Lectures, live cases, case discussions	Gurgaon, India	English

Click to see full course details

Contact us to learn more about course enrollment

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Intracranial atherosclerosis (ICAD)

	Type	Level	Format	Location	Language(s)
Asia Pacific	ICAD patient management	Advanced	Lectures, live cases	Taipei, Taiwan	English, Mandarin

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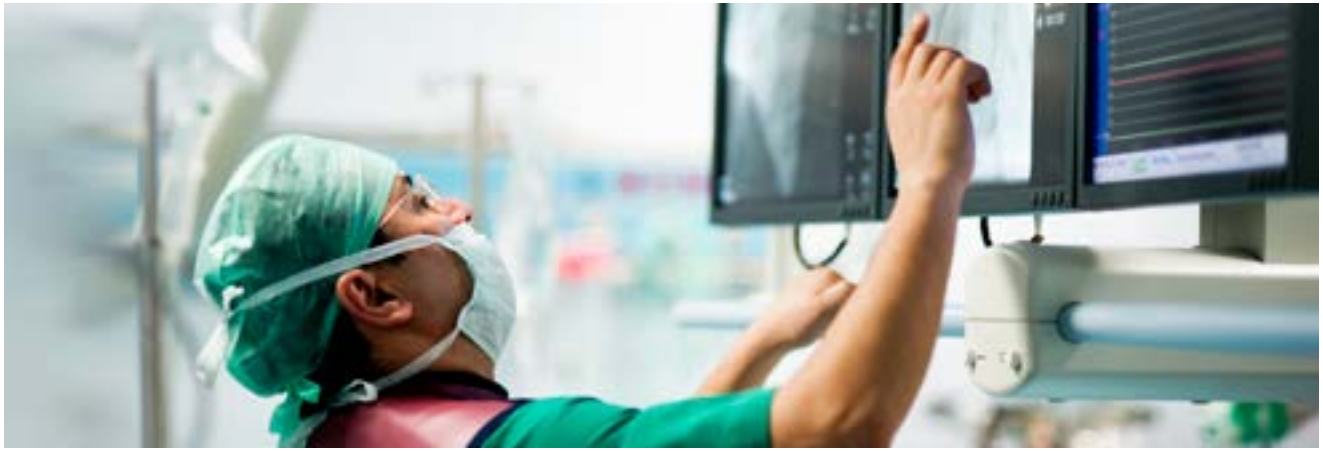
Acute ischemic stroke

AIS teaching course

Barcelona, Spain

Level: Beginner



Course director	**Dr. Juan Macho** Hospital Clinic, Barcelona, Spain Dr. Juan Macho and team have set up a full stroke network in Catalunya and are treating more than 200 patients every year. His expertise is well-known worldwide
Objective	**Understand the use of stentriever technique to treat acute ischemic stroke patients through the set-up of a stroke unit with an interdisciplinary approach**
Key learning points	With this course physicians will learn about patient selection and set-up of a stroke unit including clinical data, anesthesia protocols and the procedure. The practical part of this course will make participants familiar with the latest techniques to be used in these cases.
Experience	Physicians need to have performed at least 10 cases
Location	VHIR Hospital Vall d'Hebron, CDIC Hospital Clinic, Barcelona, Spain
Format	Lectures on patient selection, setting up a stroke network, actual clinical data, hands-on practical participation in the animal lab
Language	English, Spanish (upon request)
Curriculum level	Beginner

AIS teaching course

Barcelona, Spain

Level: Beginner

Course agenda

Day 1	
17:00 - 17:30	Pre-hospital organization, triage tools and referral pathways
17:30 - 18:00	Hospital organization, strategies for reducing treatment time delay
18:00 - 18:30	New neuro imaging selection algorithms
18:30 - 18:45	Coffee break
18:45 - 19:15	Quality monitoring systems, the importance of a database
19:15 - 19:45	Clinical trials, suggestions of scientific collaborations and joint publications

AIS teaching course

Barcelona, Spain

Level: Beginner

Course agenda

Day 2	
08:00 - 08:30	Medical management of the patient during the procedure: guidelines sedation, blood pressure control, collateral circulation and neurological monitoring.
08:30 - 09:00	Thrombectomy in acute stroke: practical aspects, strategies, access approaches and materials. Distal vs. proximal aspiration/stentriever technique/ device selection/general anesthesia vs. sedation.
09:00 - 09:30	Intra-/extracranial stenosis stenting, acute & sub-acute phase management
09:30 - 10:00	Special conditions: chronic occlusion/dissection/distal occlusion
10:00 - 10:30	Coffee break
10:30 - 12:30	Animal lab session
12:30 - 14:30	Flow model session
Wrap up	Case reviews and end of course

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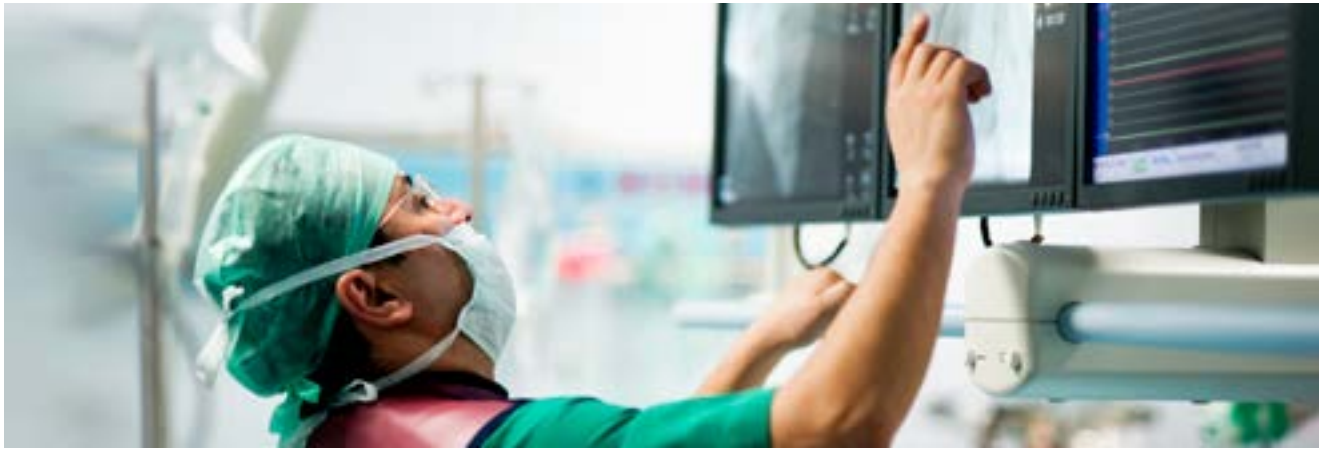
Acute ischemic stroke

AIS patient management, tips and techniques

Istanbul, Turkey

Level: Beginner



Course director	**Prof. Yakub Krespi** Prof. Yakup Krespi and team have set up a full stroke network consisting of three stroke centers in Istanbul and treat around 300 patients every year
Objective	**To understand the use of the stent retriever technique to treat acute ischemic stroke patients, through the set-up of a multidisciplinary stroke unit**
Key learning points	Physicians will learn about patient selection and the set-up of a stroke unit including clinical data, anesthesia protocols and procedures. The practical part of this course will make participants familiar with the latest techniques.
Experience	Physicians need to have performed at least 10 cases
Location	Istanbul Aydın University VM Medicalpark Hospital, Istanbul, Turkey
Format	• Lectures on patient selection • Setting up a stroke network • Clinical data • Hands-on flow model practice in angio suite
Language	English
Curriculum level	Beginner

Acute ischemic stroke

AIS patient management, tips and techniques

Istanbul, Turkey

Level: Beginner

Course agenda

Day 1	
14:00	Course presentation, introduction of the stroke team
14:15 - 14:30	Past history and lessons learned (PROACT, IMS III, MRRESCUE, SYNTHESIS)
14:30 - 15:00	Definitions: blooming artifact, vessel, hyperintensity, collaterals mismatch (clinical, radiological), TICIs Familiarization with tools to understand, describe and select cases
15:00 - 16:00	Studies and patient selection: 0-6 hours, 6-24 hours Characteristics of studies and guideline recommendations leading to wide implementation of thrombectomy
16:00	Break
16:30 - 17:00	Stentriever techniques: intervention step-by-step Familiarization with the characteristics of stentriever thrombectomy techniques
17:00 - 18:30	Case tutorials: MCA, M1s, MCA functional M1s, ICA tips, tandems
18:30 - 19:00	Coffee break
19:00 - 19:30	Anesthesia and perioperative management principles

AIS patient management, tips and techniques

Istanbul, Turkey

Level: Beginner

Course agenda

Day 2	
08:30 - 09:30	Case tutorials: M2-M3; VB system; PCA P1-P2s; Dissections
09:30 - 12:00	Hands-on flow model • Preparation tips & tricks • Access • Stentriever technique • Aspiration technique
12:00 - 12:30	Lunch
12:30 - 13:30	Stroke unit, stroke code and workflow Good practices and goals (interactive discussion of home situation)
13:30 - 15:00	Participant cases
15:00 - 15:30	Review
15:30	Adjourn

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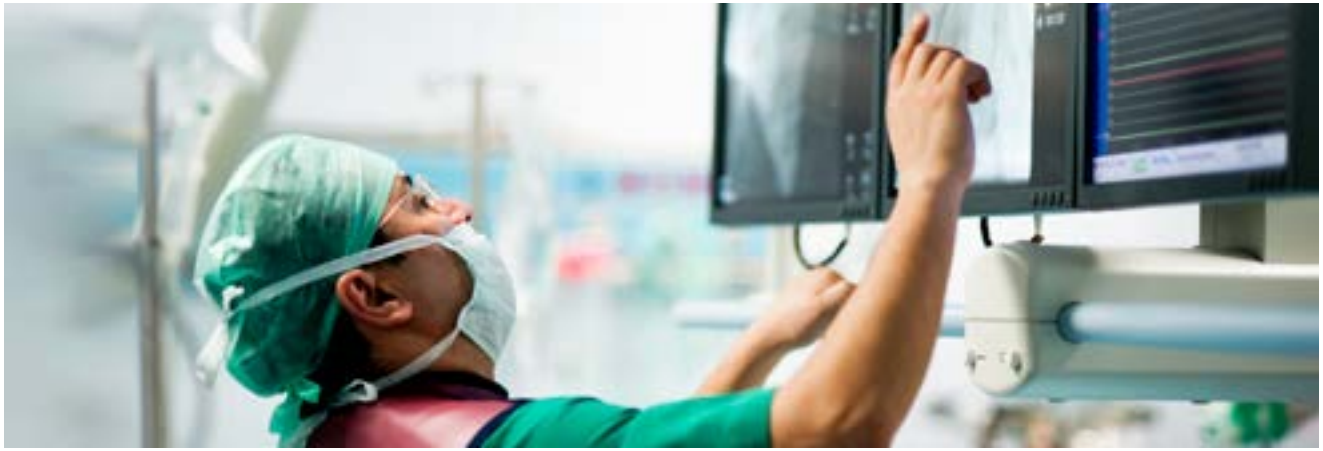
Acute ischemic stroke

AIS patient management: Multidisciplinary approach

Montpellier, France

Level: Beginner



Course director	**Prof. Vincent Costalat** As head of the department and with a team of 6 colleagues, Prof. Costalat takes care of 350-400 AIS patients every year
Objective	**To become familiar with all aspects of the endovascular treatment of AIS patients (including the medical, technical and logistical aspects). This course is particularly aimed at interventional neuroradiologists, neurologists and anesthesiologists.**
Key learning points	Physicians who are just starting to treat AIS patients will have a better understanding of stent retriever technology and of the stroke unit interdisciplinary approach
Experience	Physicians need to have performed at least 10 cases
Location	Hôpital Gui De Chauliac, 80 Avenue Augustin Fliche, 34095 Montpellier, France
Format	• Lectures (multidisciplinary treatment approach) • Flow model product training • Case reviews • Case discussions
Language	English, French
Curriculum level	Beginner

AIS patient management: Multidisciplinary approach

Montpellier, France

Level: Beginner

Course agenda

Day 1	
08:30	Departure to CHU Montpellier
09:00 - 09:15	Arrival and coffee break
09:15 - 09:30	Welcome and introduction of Montpellier team and attendees
09:30 - 10:15	**Imaging considerations in acute ischemic stroke** • CT vs MRI • Tips & tricks anatomy • Post thrombectomy imaging
10:15 - 11:15	**Patients anesthetics: treatment parameters for consideration** • Anesthesia protocol (general, conscious sedation, local) • Heparin (IV and IA bolus) • Need for urinary catheter • Procedure • Tips & tricks • BP monitoring before and after recanalization • IV fibrinolysis management • Glycaemia • Table and patient set-up
11:15 - 11:30	Cofee break

AIS patient management: Multidisciplinary approach

Montpellier, France

Level: Beginner

Course agenda

Day 1 (continued)	
11:30 - 12:30	**Acute ischemic stroke treatment: evolution and status** • History of AIS treatment • Role of mechanical therapy in AIS • Clinical literature review • Key studies/registries in AIS • Key clinical literature with Trevo XP ProVue Retriever in AIS • Retrospective study **Montpellier experience: database overview** **What have we learned in 3 years and 200 cases of stent retrievers?** • Complication rates • Success rates • Prognostic factors • Overview • Technology • Sizing • Technique • Deployment • Initial flow restoration • Incubation time • Balloon guide catheter use
13:00 - 14:00	Lunch at the hospital

AIS patient management: Multidisciplinary approach

Montpellier, France

Level: Beginner

Course agenda

Day 1 (continued)	
14:30 - 17:30	**Practical session (rotating groups)** **Group 1: flow model, thrombectomy procedure** • As per the IFU • Deployment time • Aspiration • Tips & tricks • Solo operator – what are the most important considerations for patient outcomes? **Group 2: flow model, simulator overview of the setup & hands-on** • Adjunctive product recommendations and preparation • Preparation of Flowgate² Balloon Guide Catheter • Preparation of Trevo XP ProVue Retriever • Procedural imaging considerations **Group 3: case review and discussion**
17:45	Transfer back to hotel
19:45	Meeting in lobby for dinner departure

AIS patient management: Multidisciplinary approach

Montpellier, France

Level: Beginner

Course agenda

Day 2	
08:00	Departure to CHU Montpellier
18:30 - 10:30	**Patient selection, the Montpellier algorithm** • Age • NIHSS • Timing **Treatment protocol** • 0-3/4-5 hrs IV tPA • 4.5-8 hrs • Bridging protocol/none--pros and cons, contraindications • Drips & ship protocols **Workflow: tour of department and workflow discussion** • Time management • Referral network **Building an acute ischemic stroke team** • Requirements • What is the role of each team member, how to engage and educate them? • Neurology, radiology, emergency, ambulance, anesthetics, UCU/Wards
10:30 - 11:00	Coffee break
11:00 - 11:30	**Clinical case review: including managing complications** (6-8 cases) • Tandem occlusions • Long occlusions • Bifurcation occlusions • Dissections • Stenotic lesions

AIS patient management: Multidisciplinary approach

Montpellier, France

Level: Beginner

Course agenda

Day 2 (continued)	
11:30 - 13:00	**Multi-disciplinary staff meeting** Live case review of thrombectomy procedure & indication with neurologist a neuro-radiologist from the Montpellier stroke team (6-8 cases) Summary, diploma, questions and adjourn
13:00 - 14:00	Lunch followed by airport transfer

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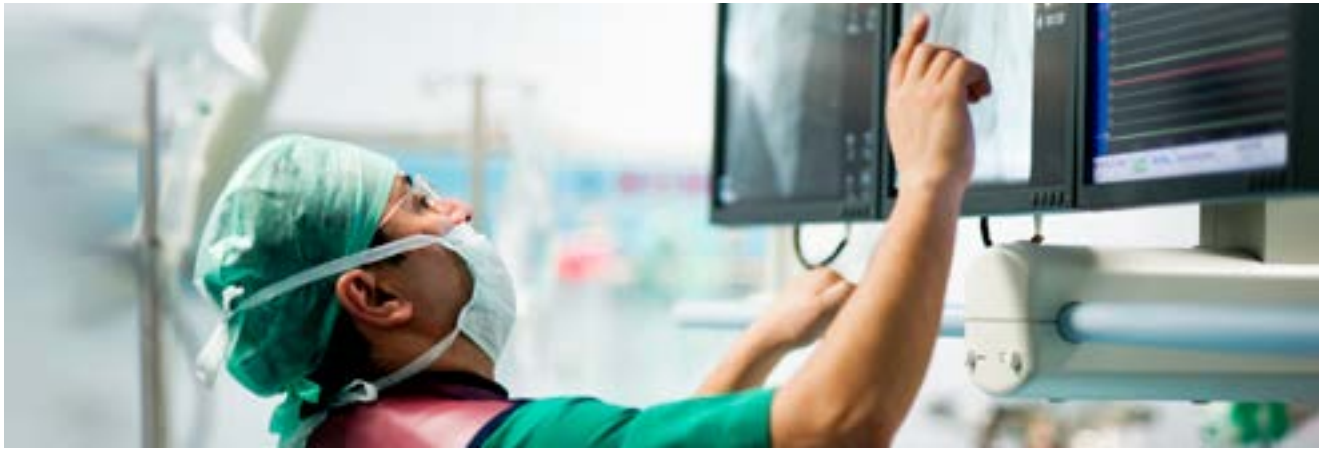
Acute ischemic stroke

AIS patient selection and imaging

Rotterdam, The Netherlands

Level: Intermediate



Course directors	**Dr. Ad van Es** and **Dr. Geert Lycklama** Both Dr. van Es and Dr. Lycklama were part of the MR CLEAN Trial and have extensive theoretical and practical experience in the field of acute ischemic stroke treatment
Objective	**To gain practical knowledge on patient selection and the endovascular treatment of acute ischemic stroke**
Key learning points	The directors will use lectures, imaging and animal lab training to develop both patient selection and hands-on techniques for the endovascular treatment of acute ischemic stroke
Experience	Physicians need to have performed between 20-50 cases
Location	Erasmus Medisch Centrum Rotterdam Gravendijkwal 230 3015 CE Rotterdam, The Netherlands
Format	• Lectures • Animal lab hands-on training • Interactive imaging training
Language	English, Dutch
Curriculum level	Intermediate

Acute ischemic stroke

AIS patient selection and imaging

Rotterdam, The Netherlands

Level: Intermediate

Course agenda

Day 1	
09:00 - 09:30	Welcome and introduction
09:30 - 10:00	Principles of arterial thrombosis with focus on histology from the MR CLEAN Trial
10:00 - 11:00	Imaging in acute ischemic stroke
11:00 - 11:15	Break
11:15 - 12:15	Overview of clinical stroke trials
12:15 - 13:00	Lunch
13:00 - 16:00	Hands-on product training in animal lab and with flow models and interactive CT analysis
16:00 - 17:00	Discussion and wrap-up of day 1
17:00	Dinner

Acute ischemic stroke

AIS patient selection and imaging

Rotterdam, The Netherlands

Level: Intermediate

Course agenda

Day 2	
09:00 - 09:30	Product overview
09:30 - 10:30	Advanced/complex thrombectomy cases
10:30 - 10:45	Break
10:45 - 12:00	Advanced/complex thrombectomy cases
12:00 - 13:00	Lunch
13:00 - 14:00	Medical management and neurological monitoring (mRS/NIHSS)
14:00 - 15:30	Interactive faculty and participant case review
15:30 - 16:00	End of course

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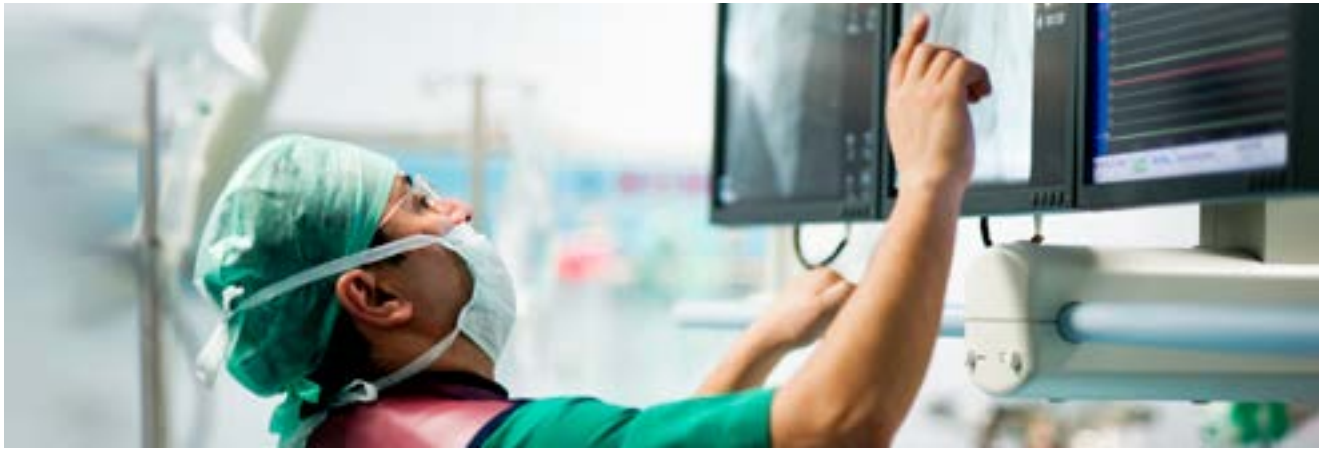
Acute ischemic stroke

Adapting technique based on clot composition

Geneva, Switzerland

Level: Intermediate



Course directors	**Dr. Paolo Machì** Dr. Paolo Machì has extensive experience in interventional neruoradiology. Before becoming the director of the Neuroradiology Department in Genève hospital, he worked in Milan (Italy), France (Montpellier) and Bruxelles (Belgium) developing wide knowledge in stroke treatment with a focus on mechanical thrombectomy.
Objective	**Understanding the use and the interaction of different devices with clots by analysing clot composition**
Key learning points	By attending this course HCPs will learn how to properly select different devices for AIS patients treatment and will became familiar with new technology devices
Experience	Physicians need to have experience as first operator in 20 to 50 mechanical thrombectomy cases
Location	Hôpitaux universitaires de Genève, Rue Gabrielle-Perret-Gentil 4, 1205 Genève (Switzerland)
Format	Lectures on patient management, patient imaging and device selection. Flow model hands-on sessions with different mechanical thrombectomy devices tested with different clot types. Difficult cases discussion.
Language	English, Dutch
Curriculum level	Intermediate

Acute ischemic stroke

Adapting technique based on clot composition

Geneva, Switzerland

Level: Intermediate

Course agenda

Day 1	
09:00 - 09:10	Welcome to participants and presentations, introduction to the course
09:10 - 09:30	Geneva AIS management algorithm, how did we improve it?
09:30 - 10:00	Imaging patient selection: MRI or CT scan?
10:00 - 10:30	Mechanical treatment: conscious sedation or general anesthesia?
10:30 - 11:00	Coffee break
11:00 - 11:30	Which device to choose? A Biomechanical approach of understanding stent retrievers' properties and effectiveness in experimental conditions
11:30 - 12:00	Mechanical treatment: aspirating vs. stent retriever, when to use what?
12:00 - 13:00	Lunch
13:00 - 14:30	**In vitro WS session (stent retrievers)** • How do stent retrievers interact with different types of clot? • Why do stent retrievers fail in engaging stiff or large clots? • Thrombo-embolic complication: how does it happen?
14:30 - 16:00	**In vitro WS session (aspirating systems)** • Why should I give a shape to the distal access aspiration catheter? • Pump or manual aspiration? • Are all distal access catheters effective in the same way?
16:00 - 16:30	Coffee break
16:30 - 17:30	**Clinical cases discuss** • Real challenging and difficult cases…did we make the right decision?

Adapting technique based on clot composition

Geneva, Switzerland

Level: Intermediate

Course agenda

Day 2

- Round table and discussion on participants' hospital AIS management setting How can delays be reduced?
- Multidisciplinary discussion on the cases of the week and interaction with participants
- Certificate and end of course

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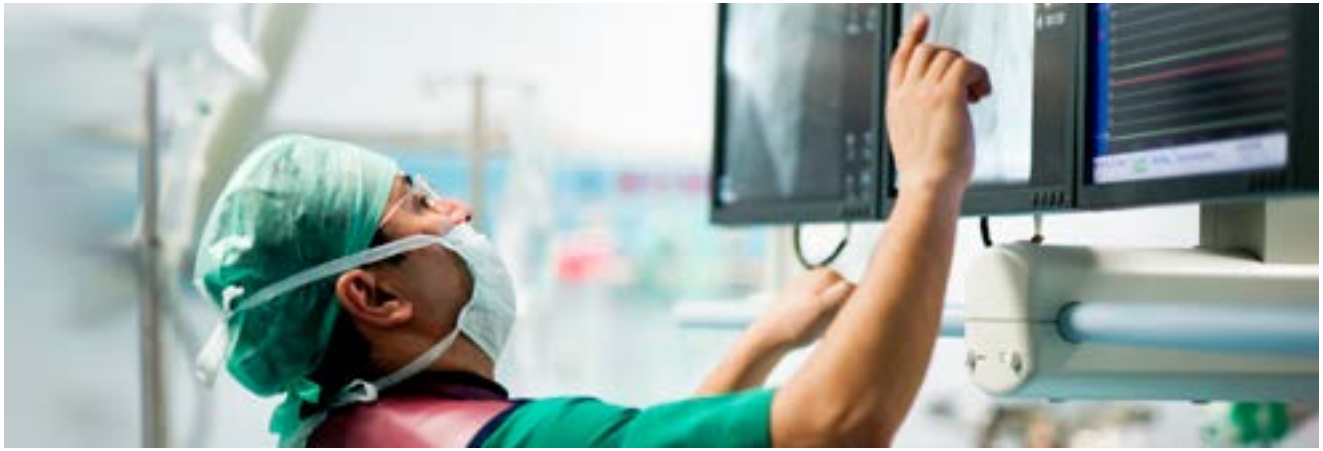
Acute ischemic stroke

Combined technique

Aachen, Germany

Level: Advanced



Course director	**Prof. Dr. Martin Wiesmann** Prof. Wiesmann has many years of experience in the treatment of acute ischemic stroke. Along with his team, he treats over 200 patients each year and conducts ongoing research.
Objective	**To understand the latest techniques in mechanical thrombectomy and to practice hands-on with live animal models. Different techniques (with/without intermediate catheters) will be explored.**
Key learning points	Physicians will gain practical knowledge of the different techniques associated with the stent retriever treatment of AIS
Experience	Physicians need to have performed at least 50 cases
Location	Uniklinik RWTH Aachen Pauwelsstraße 30, 52074 Aachen, Germany
Format	• Lectures • Hands-on practice in the animal lab and with flow models
Language	English, full Russian speaking group available on request
Curriculum level	Advanced

Combined technique

Aachen, Germany

Level: Advanced

Course agenda

Day 1	Live case and theory
08:30 - 08:45	Introduction
08:45 - 09:45	Presentation: technical aspects of mechanical thrombectomy
09:45 - 10:00	Break
10:00 - 12:45	Practical training on animal model - group 1 Training on flow model - group 2
12:45 - 13:15	Lunch
13:15 - 16:00	Practical training on animal model - group 2 Training on flow model - group 1
16:00	End of course

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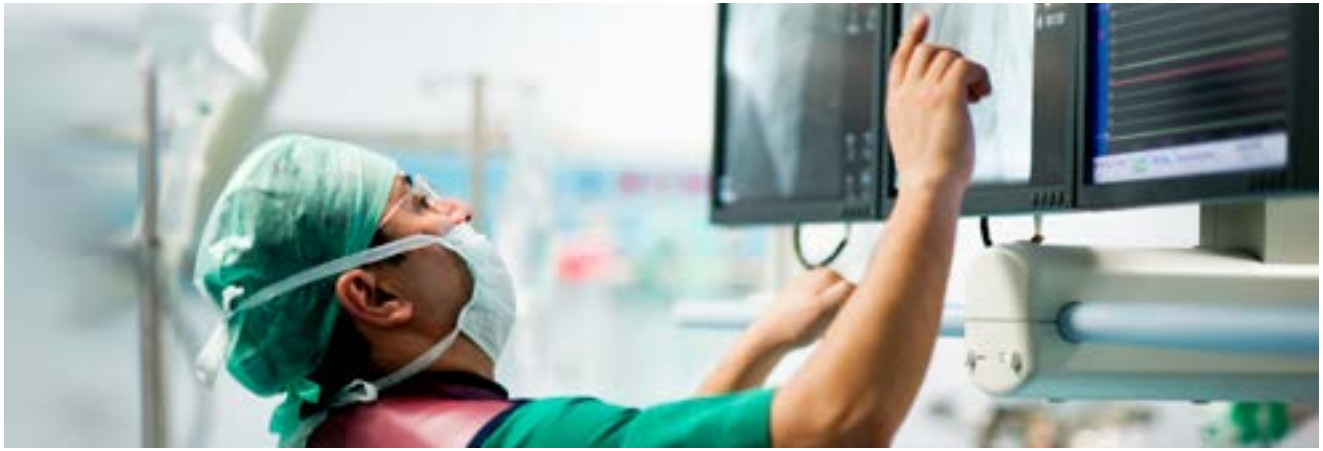
Acute ischemic stroke

Full immersion week

Montpellier, France

Level: Advanced



Course director	**Prof. Vincent Costalat** Head of neuroradiology department As head of the department and with a team of six colleagues, Prof. Costalat takes care of 350-400 acute ischemic and hemorrhagic stroke patients per year
Objective	**Develop a deep understanding of neurovascular management unit and enhance practical knowledge through offering a complete 24/7 immersion in the Montpellier Stroke Unit and its neuroradiology department**
Key learning points	Physicians will shadow the on-site staff in their daily activities: patient selection, anesthesia, procedures, follow-up, etc.
Experience	Physicians need to have performed at least 50 cases
Location	Hôpital Gui De Chauliac, 80 Avenue Augustin Fliche, 34095 Montpellier, France
Format	• 24/7 on call for one week • Case attendance • Lectures • Case discussion
Language	English, French, Spanish
Curriculum level	Advanced

Acute ischemic stroke

Full immersion week

Montpellier, France

Level: Advanced

Course agenda

Day 1	
A.M.	Planning for the week/presentation of the medical team/standard approach treatment
P.M.	Elective cases briefing/debriefing/guidelines, patient selection, anesthesia protocols

Day 2	
A.M.	Elective case debriefing/Montpellier experience in stroke: review of a series of hospital cases
P.M.	How to set up a stroke unit, multidisciplinary approach Hands-on with silicon flow-model

Day 3	
A.M.	Meet and ride with Emergency Medical Services (depending on schedule)/elective case debriefing
P.M.	Review of participants' experience and cases and discuss ways to improve

Full immersion week

Montpellier, France

Level: Advanced

Course agenda

Day 4	
All day	AIS case complications: what went wrong? How to anticipate and treat?

Day 5	
All day	Week's case debriefing Review of key learnings

Day 6/7	
All day	On call with team

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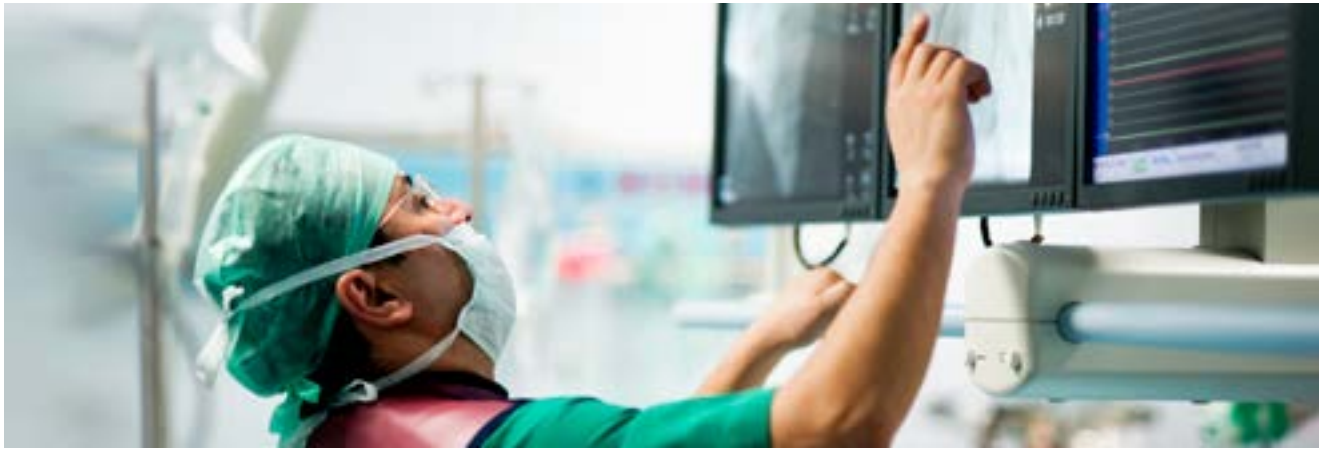
Acute ischemic stroke

Advanced acute ischemic stroke training

Hong Kong, China

Level: Advanced



Course director	**Prof. Yu Chun Ho, Simon** Chairman, Department of Imaging and Interventional Radiology Chinese University of Hong Kong
Objective	**Enhance skills of physicians and reduce complication rates through theory lessons and practical animal lab sessions**
Key learning points	Managing AIS cases with mechanical thrombectomy and tips for avoiding complications
Experience	INRs, Neurologists, Neurosurgeons with at least 2 years of intervention experience
Location	Hong Kong, China
Format	Overview of AIS, the Trevo Retriever set-up, case discussions, hands-on flow-model and animal lab practice
Language	English, Mandarin
Curriculum level	Advanced

Acute ischemic stroke

Advanced acute ischemic stroke training

Hong Kong, China

Level: Advanced

Course agenda

Day 1	Venue: Meeting room, Department of Imaging and Interventional Radiology, 2/F., Main Clinical Building, Prince of Wales Hospital
10:30 - 12:00	Brunch at Kerry Hotel, Shatin
12:15 - 12:45	Shuttle bus from Kerry Hotel to Prince of Wales Hospital
13:00 - 13:15	Registration
13:15 - 13:30	Introduction of the local stroke service
13:30 - 14:30	How to set up a stroke unit
14:30 - 15:00	Intravenous thrombolytic therapy
15:00 - 15:30	Break
15:30 - 16:30	Endovascular intervention: indications and case selection Trevo Retrievers new indication Inclusion and exclusion criteria
6:30 - 17:30	Endovascular intervention: set up and techniques Set-up and using Trevo XP ProVue Retriever, AXS Catalyst 6 and DAC Distal Access Catheters, and Merci Balloon Guide Catheter Push and fluff techniques
17:30 - 17:50	Considerations and use of general anaesthesia in endovascular procedures for acute ischemic stroke
17:50 - 18:00	Wrap up and end of day 1 Take shuttle bus for group dinner

Acute ischemic stroke

Advanced acute ischemic stroke training

Hong Kong, China

Level: Advanced

Course agenda

Day 2	Venue: Animal Laboratory of Chinese University of Hong Kong
08:45 - 09:00	Shuttle bus from hotel to animal lab
09:00 - 09:30	Registration Animal lab preparation by Prof. Simon Yu and lab technicians
09:30 - 13:30	Hands-on flow model and animal model Flow model x 2 sets (Flowtek and small round shaped) & artificial clots • Trevo XP ProVue Retriever (4mm for flow model & 6mm for animal model) • AXS Catalyst 6 and DAC Distal Access Catheters • Merci Balloon Guided Catheter • Guidewire • Microcatheter
13:30 - 14:00	Endovascular intervention: Tips and tricks (including emergency issues, complication prevention and handling)
14:00 - 15:00	Lunch
15:00 - 17:30	Product presentation by China team Endovascular intervention: technologies Stent retriever (Trevo Retreivers vs. other stent retrievers) Other techniques for AIS cases
17:30	End of course

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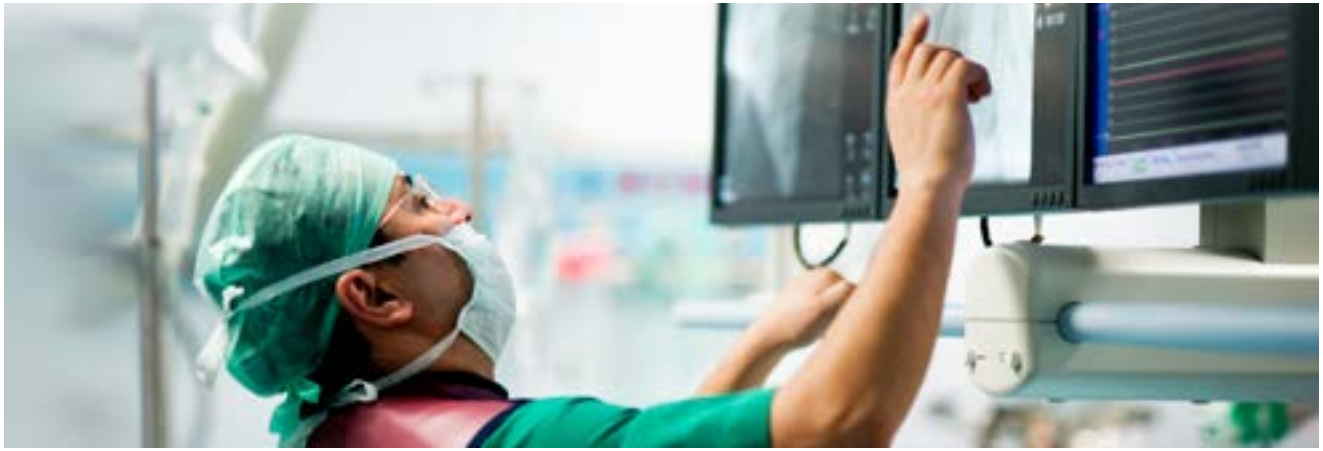
Acute ischemic stroke training

Singapore

Acute ischemic stroke

Level: Advanced



Course director	**Dr. Wickly Lee** Director of Joint Neurovascular Services, NNI Singapore
Objective	**Enhance skills of physicians and reduce complication rates through theory lessons and practical animal lab sessions**
Key learning points	Managing AIS cases with mechanical thrombectomy and tips for avoiding complications
Experience	INRs, Neurologists, Neurosurgeons with at least 2 years of intervention experience
Location	National NeuroScience Institute, Singapore
Format	Overview of AIS, the Trevo Retriever setup, case discussions, hands-on flow-model and animal lab practice
Language	English
Curriculum level	Advanced

Acute ischemic stroke training

Singapore

Acute ischemic stroke

Level: Advanced

Course agenda

Day 1	Venue: National Neuroscience Institute, Singapore
09:00 - 09:15	Welcome address
09:15 - 10:15	Overview of acute stroke treatment – components for success Rationale for acute stroke therapy
10:15 - 10:45	Morning tea
10:45 - 11:30	Acute stroke treatment
11:30 - 12:30	Imaging in acute stroke
12:30 - 13:30	Lunch
13:30 - 14:30	Mechanical thrombectomy tips and tricks
14:30 - 15:30	Case discussion Dr. Wickly Lee Acute dissection, clinical scenarios (opinions, discussions)
15:30 - 16:00	Tea break
16:00 - 17:00	Stroke unit tour
17:00	Adjourn day 1

Acute ischemic stroke

Acute ischemic stroke training

Singapore

Level: Advanced

Course agenda

Day 2	Venue: National Neuroscience Institute, Singapore
09:00 - 12:30	Practical session (rotating group 1 & 2)
09:00 - 10:30	Group 1: animal lab – thrombectomy procedure
09:00 - 10:30	Group 2: Product presentations – Trevo XP ProVue Retriever and Merci and FlowGate Balloon Guide Catheters Flow model – overview of set-up and hands-on
10:30 - 11:00	Morning tea
11:00 - 12:30	Group 1: Animal lab – thrombectomy procedure
11:00 - 12:30	Group 2 : Flow model – overview of set-up and hands-on
12:30 - 13:30	Lunch
13:30 - 17:30	Practical session (rotating group 1 & 2)
13:30 - 15:00	Group 2: Animal lab – thrombectomy procedure
13:30 - 15:00	Group 1: Product presentations – Trevo XP ProVue Retriever and Merci and FlowGate Balloon Guide Catheters Flow model – overview of set-up and hands-on
15:00	Tea break
15:00 - 17:30	Group 2: Animal lab – thrombectomy procedure
15:00 - 17:30	Group 1 : Flow model – overview of set-up and hands-on
17:30	End of course

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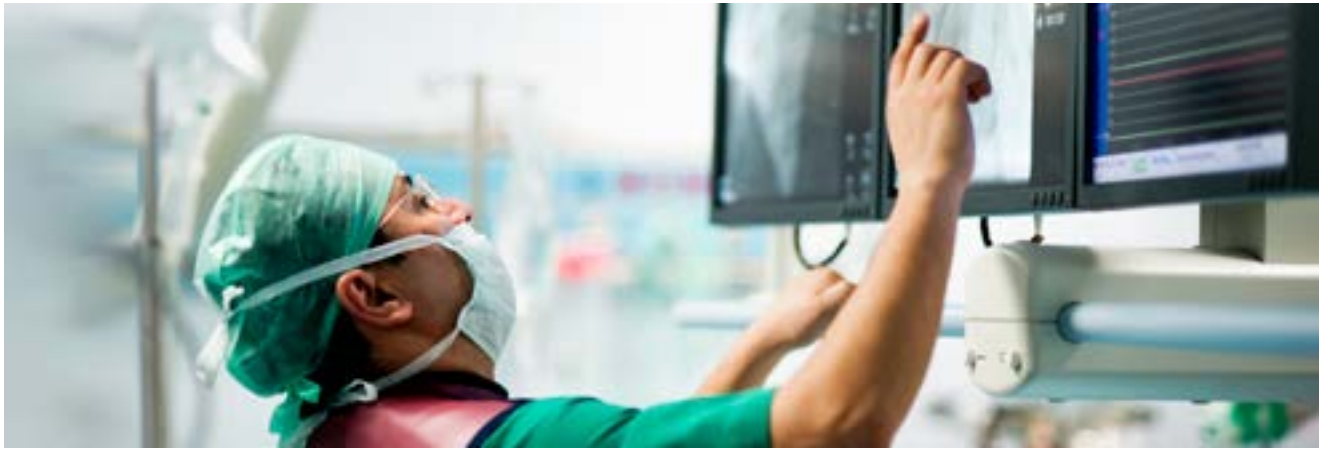
Acute ischemic stroke

Combined technique

Taipei, Taiwan

Level: Advanced



Course directors	**Prof. Hon-Man Liu** Chief of neuroradiology, Department of medical imaging Professor, Department of radiology Professor, Institute of brain and mind science Deputy director, Clinical center for neuroscience and behavior National Taiwan University Hospital Prof. Hon-Man Liu has published more than 226 articles to date **Prof. Jiann-Shing Jeng** Chief of the stroke center, Department of neurology National Taiwan University Hospital **Dr. Lai Yen Jun** Radiologist, Division of medical imaging Far Eastern Memorial Hospital
Objective	**To build upon current neurointerventional techniques and reduce complication rates**
Key learning points	Physicians will learn advanced tips and tricks through both theoretical and hands-on training
Experience	Physicians need to have at least 2 years of experience

Combined technique

Taipei, Taiwan

Level: Advanced

Location	The Residence on the 2nd floor, Grand Hyatt Taipei, Taiwan
Format	Discussions and hands-on training with flow models
Language	Mandarin
Curriculum level	Advanced

Combined technique

Taipei, Taiwan

Level: Advanced

Course agenda

Day 1	
09:00 - 09:10	Welcome and introduction
09:10 - 09:50	AIS patient pathway: triage, drip and ship, transfer decision process
09:50 - 10:30	Imaging in AIS patient selection, inclusion and exclusion criteria
10:30 - 10:50	Break
10:50 - 11:30	Intravenous thrombolytic therapy and bridging therapy
11:30 - 12:10	Endovascular intervention product setup and techniques: Trevo XP ProVue Retriever, CAT 6 Distal Access Catheter/DAC Catheter, Merci Balloon Guide Catheter
12:10 - 13:30	Lunch
13:30 - 14:10	Treating AIS in the presence of other underlying diseases (ICAD, dissection, etc.)
14:10 - 14:35	Pros and cons of using general anesthesia in endovascular procedures
14:35 - 15:00	Poor outcomes in acute stroke treatment despite proper reperfusion
15:00 - 15:30	Break
15:30 - 16:10	Interpreting post-procedure imaging
16:10 - 17:30	Case presentation and discussion (3-4 cases)
17:30	End of 1st day

Combined technique

Taipei, Taiwan

Level: Advanced

Course agenda

Day 2	
09:00 - 010:30	Hands-on practice with flow models: • Trevo XP ProVue Retriever (4mm & 6mm) • AXS Catalyst 6 Distal Access Catheter and DAC Catheter • Merci Balloon Guide Catheter • Guidewires • Microcatheters
09:30 - 10:45	Break
10:45 - 11:15	Endovascular intervention tips and tricks: problems with access, tandem lesions, preventing complications
11:15 - 12:15	Case presentation and discussion - part 1
12:15 - 13:30	Lunch
13:30 - 15:00	Case presentation and discussion - part 2
15:00 - 15:30	Break
15:30 - 17:00	Trevo Stroke Solutions product overview
17:00	End of course

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Hemorrhagic stroke

Oxford aneurysm teaching school

Oxford, United Kingdom

Level: Beginner

Course director	**Prof. Jan Gralla and Dr. Viccy Young** Both Prof. Gralla and Dr. Young are renowned in the field of interventional neuroradiology. They are supported by a faculty of six well-known and world-renowned INRs.
Objective	**To better understand the different techniques behind the endovascular treatment of intra cerebral aneurysms**
Key learning points	Physicians will learn the principles and techniques of the endovascular treatment of at least ten cases of intra-cerebral aneurysms
Experience	Physicians need to have prior experience in the treatment of intra-cerebral aneurysms
Location	Worcester College Walton Street Oxford OX1 2HB, UK
Format	Lectures, tutorials, hands-on training with flow models and simulators
Language	English
Curriculum level	Beginner

Oxford aneurysm teaching school

Oxford, United Kingdom

Level: Beginner

Course agenda

Day 1	
12:00 - 13:30	Welcome and lunch
13:30 - 14:15	Aneurysm diagnosis and complications
14:15 - 15:00	Management of patients after a subarachnoid hemorrhage
15:00 - 15:15	Break
15:15 - 16:00	Selection of patients for endovascular treatment
16:00 - 16:45	Endovascular packing techniques
16:45 - 17:30	Discussion around current trends in endovascular treatment
17:30 - 18:45	Off-site visit to Thomas Willis' house
18:45	Dinner - Worcester College

Oxford aneurysm teaching school

Oxford, United Kingdom

Hemorrhagic stroke

Level: Beginner

Course agenda

Day 2	
08:30 - 09:15	Natural history of intracranial aneurysms
09:15 - 10:00	Results of coil embolization in the treatment of intracranial aneurysms
10:00 - 10:15	Break
10:15 - 12:45	Group simulator sessions and tutorials
12:45 - 13:45	Lunch
13:45 - 15:00	Group simulator sessions and tutorials
15:00 - 15:15	Break
15:15 - 16:30	Group simulator sessions, case review and tutorials
16:30 - 17:15	Complications of endovascular treatments
17:15 - 17:45	Value of stent and flow diverters
17:45 - 18:30	Guest lecture - Are flow disrupters effective?
19:30	Dinner - New College

Oxford aneurysm teaching school

Oxford, United Kingdom

Level: Beginner

Course agenda

Day 3			
08:30 - 09:00	Quiz		
09:00 - 10:15	Group 1	Group 2	Group 3
	Tutorial	Simulator session	Case review
10:15 - 10:30	Break		
10:30 - 11:45	Group 1	Group 2	Group 3
	Simulator session	Case review	Tutorial
11:45 - 12:15	Quiz answers		
12:15 - 12:30	Closing remarks		
12:30	End of course		

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Hemorrhagic stroke

Flow diverter technique and patient management

Le Kremlin-Bicêtre, France

Level: Beginner

Course director	**Prof. Laurent Spelle** Hôpital Bicêtre, Le Kremlin-Bicêtre, France As head of the department and with a large team of experts, Prof. Spelle and Prof. Jacques Moret manage approximately 700 ischemic and hemorrhagic patients per year, in addition to pediatric and multiple neurointerventional disease patient management cases.
Objective	**To provide interactive teaching on the treatment of ruptured and unruptured intracranial aneurysms using standard coiling techniques and more complex treatments with flow diversion. Understanding how technique choices affect patient management and mid to long-term outcomes.**
Key learning points	With this course, physicians will learn about patient selection, clinical data and existing techniques from Profs. Spelle and Moret. The practical part of this course will make participants familiar with these technologies and techniques.
Experience	Physicians need to have performed at least 10 cases
Location	Hôpital Bicêtre, 78 Rue du Général Leclerc, 94270 Le Kremlin-Bicêtre, France

Flow diverter technique and patient management

Le Kremlin-Bicêtre, France

Level: Beginner

Format	Live cases, lectures, pre-recorded cases review and key learning steps, case sharing, flow models
Language	English, French (upon request)
Curriculum level	Beginner

Flow diverter technique and patient management

Le Kremlin-Bicêtre, France

Hemorrhagic stroke

Level: Beginner

Course agenda

Day 1	
09:00 - 09:30	Presentation of the medical team/standard treatment approach (hemorrhagic and ischemic)
09:30 - 11:30	Live cases: flow diverter elective cases briefing
11:30 - 12:00	Debriefing/patient selection, anesthesia alternative techniques pro and cons
12:30 - 13:30	Lunch • Review of visitor's own experience and cases • Coach on improvement possibilities
13:30 - 15:30	Live cases: flow diverter elective cases briefing
15:30 - 16:30	Debriefing/patient selection, anesthesia alternative techniques pro and cons
16:30 - 18:00	NEURI Bicêtre recorded cases training platform deep dive

Flow diverter technique and patient management

Le Kremlin-Bicêtre, France

Level: Beginner

Course agenda

Day 2	
09:00 - 09:30	Debrief on the key learning of the day before
09:30 - 11:30	Live cases:flow diverter elective cases briefing
11:30 - 12:00	Debriefing/patient selection, anesthesia alternative techniques pro and cons
12:30 - 13:30	Lunch
13:30 - 15:30	NEURI Bicêtre recorded cases training platform deep dive • Hemorrhagic cases complication management: how to anticipate and treat?
15:30 - 17:30	Participants clinical case sharing

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Hemorrhagic stroke

Stent-assisted coiling

Lübeck, Germany

Level: Intermediate

Course director	**Prof. Peter Schramm** Prof. Peter Schramm has extensive experience in interventional neuroradiology, including both ischemic and hemorrhagic stroke procedures. His hemorrhagic practice includes treatment of aneurysms via stent-assisted coiling and flow diversion.
Objective	**Understanding the concept of stent-assisted coiling with Neuroform Atlas Stent System**
Key learning points	By attending this course HCPs will learn about stent-assisted coiling including patient selection, treatment options, stent placement, anti-platelet medication etc.
Experience	Interventional neuroradiologists who have experience as first operator in at least 20 aneurysm coil embolization cases
Location	Universitätsklinikum Schleswig-Holstein - Lübeck Ratzeburger Allee 160, 23562 Lübeck, Germany
Format	• Lectures on stent-assisted coiling, patient management, medication, etc. • Patient stent-assisted coiling live case • Flow model hands-on session with 3D model of the aneurysm treated during the live case
Language	English, French, Italian
Curriculum level	Intermediate

Hemorrhagic stroke

Stent-assisted coiling

Lübeck, Germany

Level: Intermediate

Course agenda

Day 1	
16:00	Welcome and introduction
16:15 - 16:45	Neuroform Atlas Stent System and Stryker access
16:45 - 17:00	Introduction to the flow model
17:00 - 17:45	Experience from Lübeck Center on stent-assisted coiling
17:00 - 18:00	Coffee break
18:00 - 19:00	Tips and tricks in stent-assisted coiling • Bifurcation aneurysms • Anti-aggregation and management of complications
19:30	Group dinner

Day 2	
08:30 - 09:00	Case preparation/discussion
09:00 - 12:00	Live case
12:00 - 15:00	Hands-on flow model
15:15 - 16:00	Wrap up

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Hemorrhagic stroke

Complex aneurysm treatment: Balloon, stent and flow diverter techniques

Budapest, Hungary

Level: Intermediate

Course director	**Dr. Istvan Szikora** Dr. Szikora was an early pioneer in the endovascular treatment of aneursyms and has extensive experience in all treatment options.
Objective	**To understand the use of adjunctive devices, especially in the treatment of intracranial aneurysms**
Key learning points	Physicians will learn the techniques of balloon assisted coiling, stent-assisted coiling and flow diversion, focusing on patient selection, indication, preparation and procedural tips and tricks
Experience	Physicians need to have performed 20 to 50 cases
Location	National Institute of Neurosciences Amerikai ut 57, Budapest 1145, Hungary
Format	• Lectures on patient selection, periprocedural medication, clinical data on SAC and BAC • Live case observation • Hands-on with the flow model with self-expanding stents, remodeling balloons, and flow diverters
Language	English
Curriculum level	Intermediate

Hemorrhagic stroke

Complex aneurysm treatment: Balloon, stent and flow diverter techniques

Budapest, Hungary

Level: Intermediate

Course agenda

Day 1	Live case and theory
08:30 - 09:00	Transportation to institute
09:00 - 12:00	Training-part I. Live case observation
12:00 - 13:00	Lunch
13:00 - 17:00	Training-part II: theory of vessel remodeling, aneurysm stenting and flow diversion
17:00	Transportation to hotel
19:45	Transfer to restaurant
20:00	Group dinner

Day 2	Hands-on training
09:00 - 09:30	Transportation to institute
09:30 - 14:30	Demonstration of Stryker products during hands-on practice with flow model in the angio-suite
14:30	End of course

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Hemorrhagic stroke

Flow diversion technique

Nijmegen, The Netherlands

stryker

Level: Advanced

Course director	**Dr. Joost de Vries** Dr. de Vries has been involved in the development of the Surpass and Surpass Streamline Flow Diverters from the beginning. His experience and skills will help participants to understand the principles of aneurysm treatment with the Surpass Streamline Flow Diverter.
Objective	**To understand the principles of aneurysm treatment with the Surpass Streamline Flow Diverter**
Key learning points	Physicians will learn the principles of patient selection and the techniques behind the Surpass Streamline Flow Diverter device
Experience	Physicians need to have prior experience as an INR/interventionalist and be familiar with the treatment of intra cerebral aneurysms in other ways besides flow diversion
Location	UMC St. Radboud Geert Grooteplein-Zuid 10, 6525 GA Nijmegen, The Netherlands
Format	• Lectures • Hands-on demonstration with flow model and in the animal lab
Language	English, German and Dutch
Curriculum level	Advanced

Hemorrhagic stroke

Flow diversion technique

Nijmegen, The Netherlands

Level: Advanced

Course agenda

Day 1	
07:15 - 08:00	Breakfast
08:00 - 09:15	Transfer to Radboud University Hospital “Het Kasteeltje”
09:15 - 10:45	Flow diverter technical overview
10:45 - 12:00	Radboud clinical experience
12:00 - 13:00	Working lunch and transfer to animal lab
13:00 - 15:00	Hands-on animal lab • Flow diverter evaluation • Tips & tricks • Tri-axial access approach
15:00 - 16:00	Debrief and sharing of best practices
16:00	End of course

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Hemorrhagic stroke

Stroke patient management and treatment (hemorrhagic and ischemic)

Paris, France

Level: Advanced

Course directors	**Dr. Michel Piotin** Head of the department of interventional neuroradiology **Dr. Raphael Blanc** Deputy head of the department of interventional neuroradiology
Objective	**To understand the use of adjunctive devices, especially occlusion balloon catheters, self-expanding stents and flow diverters in the treatment of intracranial aneurysms**
Key learning points	Physicians will learn the main principles of balloon-assisted coiling, stent-assisted coiling and flow diversion with a focus on patient selection, indications, antiplatelet aggregation protocols and procedural tips and tricks
Experience	Physicians need to have performed at least 50 cases per year
Location	Fondation Adolphe de Rothschild 25-29 Rue Manin, 75019 Paris, France

Stroke patient management and treatment (hemorrhagic and ischemic)

Paris, France

Hemorrhagic stroke

Level: Advanced

Format	1-day interactive workshop: • Pre and post-deployment patient management • Anesthetist lectures on D.A.P.T. • Lectures • Live cases • Interactive cases debriefing
Language	English, French
Curriculum level	Advanced

Hemorrhagic stroke

Stroke patient management and treatment (hemorrhagic and ischemic)

Paris, France

Level: Advanced

Course agenda

Day 1	Live case and theory
08:30 - 09:30	Presentation of the team's experience with balloon-assisted coiling, stent-assisted coiling and flow diversion Protocol for anti-aggregation medication
09:30 - 11:30	Live cases
11:30 - 12:30	Case debriefing
12:30 - 13:30	Lunch
13:30 - 15:30	Live cases
15:30 - 16:00	Case debriefing
16:00 - 17:00	Tips and tricks for complex aneurysm treatment/coiling: 1. Bifurcation aneurysms 2. Complication management 3. High-resolution imaging of stents with flat panel detector technology
17:00	End of course

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Hemorrhagic stroke

Full immersion week

Montpellier, France

Level: Advanced

Course director	**Prof. Vincent Costalat** Head of neuroradiology department As head of the department and with a team of six colleagues, Prof. Costalat takes care of 350-400 acute ischemic and hemorrhagic stroke patients per year
Objective	**Develop a deep understanding of neurovascular management unit and enhance practical knowledge through offering a complete 24/7 immersion in the Montpellier Stroke Unit and its neuroradiology department**
Key learning points	Physicians will shadow the on-site staff in their daily activities: patient selection, anesthesia, procedures, follow-up, etc.
Experience	Physicians need to have performed at least 50 cases
Location	Hôpital Gui De Chauliac, 80 Avenue Augustin Fliche, 34095 Montpellier, France
Format	24/7 on call for one week • Case attendance • Lectures • Case discussions
Language	English, French, Spanish
Curriculum level	Advanced

Hemorrhagic stroke

Full immersion week

Montpellier, France

Level: Advanced

Course agenda

Day 1	
A.M.	Planning for the week/presentation of the medical team/standard approach treatment
P.M.	Elective cases briefing/debriefing /guidelines, patient selection, anesthesia protocols

Day 2	
A.M.	Elective case debriefing/Montpellier experience in stroke: review of a series of hospital cases
P.M.	How to set up a stroke unit, multidisciplinary approach Hands-on with silicon flow-model

Day 3	
A.M.	Meet and ride with Emergency Medical Services (depending on schedule)/elective case debriefing
P.M.	Review of participants' experience and cases and discuss ways to improve

Hemorrhagic stroke

Full immersion week

Montpellier, France

Level: Advanced

Course agenda

Day 4	
All day	Hemorrhagic case complications: what went wrong? How to anticipate and treat?

Day 5	
All day	Week's case debriefing Review of key learnings

Day 6/7	
All day	On call with team

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Immersion days

Le Kremlin-Bicêtre, France

Hemorrhagic stroke

Level: Advanced

Course director	**Prof. Laurent Spelle** Hôpital Bicêtre, Le Kremlin-Bicêtre, France As head of the department and with a large team of experts, Prof. Spelle and Prof. Jacques Moret manage approximately 700 ischemic and hemorrhagic patients per year, in addition to pediatric and multiple neurointerventional disease patient management cases.
Objective	**Develop a deep understanding of the neurovascular managment unit and enhance practical knowledge through offering a complete 24/7 immersion at NEURI, the Hôpital Bicêtre Neurointerventional Department**
Key learning points	With this course, physicians will learn about patient selection, clinical data and existing techniques from Profs. Spelle and Moret. The practical part of this course will make participants familiar with these technologies and techniques.
Experience	Physicians need to have performed at least 50 cases
Location	Hôpital Bicêtre, 78 Rue du Général Leclerc, 94270 Le Kremlin-Bicêtre, France
Format	Live cases, lectures, pre-recorded cases review and key learning steps, case sharing, flow models
Language	English, French (upon request)
Curriculum level	Advanced

Immersion days

Le Kremlin-Bicêtre, France

Hemorrhagic stroke

Level: Advanced

Course agenda

The participants will follow the activity of the neurointerventional department and the program below may vary depending on the patient emergencies. In case the various key procedural points (e.g. anesthesia, patient selection) cannot be presented during the day, the course director and his team will provide specific lectures on those topics.

Day 1
Presentation of the medical team/standard treatment approach (hemorrhagic and ischemic)
Live cases: elective cases briefing/debriefing/guidelines, patient selection, anesthesia alternative techniques pro and cons
NEURI Bicêtre recorded cases training platform, based on participants' needs
Review of visitor's own experience and cases, coach on possibilities for improvement

Day 2
Live cases: elective cases briefing/debriefing/guidelines, patient selection, anesthesia alternative techniques pro and cons
Hemorrhagic case complications: what went wrong? How to anticipate and treat?
AIS case complications: what went wrong? How to anticipate and treat?
Review of key learnings

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Hemorrhagic stroke

Aneurysm access and coiling

Bangkok, Thailand

Level: Beginner

Course director	**Assoc. Prof. Dr. Anchalee Churojana** President, Royal College of Radiologist of Thailand, Department of Radiology, Faculty of Medicine, Siriraj Hospital, Mahidol University; Bangkok, Thailand.
Objective	**Enhance skills of physicians and reduce complication rates through theory lessons and practical flow model sessions**
Key learning points	Managing AIS cases with mechanical thrombectomy and tips for avoiding complications
Experience	INRs, Neurologists, Neurosurgeons with 1-2 years of intervention experience
Location	Siriraj Training and Education Center for Clinical Skills: SiTEC Srisavarindhira Building, 4th floor, Siriraj Hospital, Bangkok, Thailand
Format	Overview of aneurysms, treatment options, coiling, case discussions, hands-on flow-model and animal lab practice
Language	English
Curriculum level	Beginner

Aneurysm access and coiling

Bangkok, Thailand

Hemorrhagic stroke

Level: Beginner

Course agenda

Day 1	
09:00 - 12:00	Training – Part I Aneurysmal vasculopathies: Basic principles and imagings Technical aspect: Devices in aneurysm coiling Difficult arch, alternative route and working projection Complication management: Pre- and post-procedural antiplatelet and antithrombolytics, coagulation cascades
12:00 - 13:00	Lunch
13:00 - 16:00	Training – Part II Recorded case presentation

Aneurysm access and coiling

Bangkok, Thailand

Level: Beginner

Day 2	
09:00 - 10:00	Training – Part III Instruction on Stryker products to be used during hands-on practice
10:15 - 12:00	Breakout sessions Group I: Hands-on with model Access technique in challenging anatomy Technique for small aneurysms Techniques for different types of aneurysms Group II: Open discussion Attendees prepare some cases for discussion in this session
12:00 - 13:15	Lunch
13:15 - 15:00	Breakout sessions Group I: Open discussion Attendees prepare some cases for discussion in this session Group II: Hands-on with model Access technique in challenging anatomy Technique for small aneurysms Techniques for different types of aneurysms
15:00	Discussion and close

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EX_EN_IL_EU

Hemorrhagic stroke

Endovascular aneurysm treatment with balloon and stent-assisted coiling

Bangkok, Thailand

Level: Intermediate

Course director	**Assoc. Prof. Dr. Anchalee Churojana** President, Royal College of Radiologist of Thailand, Department of Radiology, Faculty of Medicine, Siriraj Hospital, Mahidol University; Bangkok, Thailand
Objective	**Enhance skills of physicians and reduce complication rates through theory lessons and practical flow model sessions**
Key learning points	Managing AIS cases with mechanical thrombectomy and tips for avoiding complications
Experience	INRs, Neurologists, Neurosurgeons with at least 2 years of intervention experience
Location	Siriraj Training and Education Center for Clinical Skills: SiTEC Srisavarindhira Building, 4th floor, Siriraj Hospital, Bangkok, Thailand
Format	Review of aneurysms treatment options, assisted coiling with balloon and stenting, case discussions, hands-on flow-model and animal lab practice
Language	English
Curriculum level	Intermediate

Endovascular aneurysm treatment with balloon and stent-assisted coiling

Bangkok, Thailand

Hemorrhagic stroke

Level: Intermediate

Course agenda

Day 1	
09:00 - 12:00	Training – Part I • Basic principles of aneurysmal vasculopathy and aneurysm imaging • Medication in aneurysm treatment • Treatment of wide neck aneurysms • Complication management
12:00 - 13:00	Lunch
13:00 - 16:00	Training – Part II • Aneurysmal cases discussion • Interesting cases from participants

Endovascular aneurysm treatment with balloon and stent-assisted coiling

Bangkok, Thailand

Hemorrhagic stroke

Level: Intermediate

Course agenda

Day 2	
08:30 - 09:00	Training –Part III • Instruction on Stryker products to be used during hands-on practice
10:15 - 12:00	Group I • Balloon-assisted coiling Group II • Stent-assisted coiling
12:00 - 13:15	Lunch
13:15 - 16:00	Group I • Stent-assisted coiling Group II • Balloon-assisted coiling
16:00 -16:30	Wrap up and adjourn

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EX_EN_IL_APAC

Flow diversion technique

Guragon, India

Hemorrhagic stroke

Level: Advanced

Course director	**Dr. Gaurav Goel** Associate Director and HOD Department of Interventional Neurosurgery, Medanta Hospital, Gurgaon Dr. Goel and team are pioneers in comprehensive stroke care, both hemorrhagic and ischemic, in Medanta Medicity Hopsital, Gurgaon. His center treats approximately 150 aneurysms and almost 50 cases of flow diversion per year. Dr. Goel has a tremendous amount of Surpass Streamline Flow Diverter case experience and is a very respected proctor for the device.
Objective	**To understand the concepts of flow diversion and the principles of aneurysm treatment with the Surpass Streamline Flow Diverter**
Key learning points	Physicians will learn about the concept of flow diversion and the design intent behind the Surpass Streamline Flow Diverter device through hands-on sessions with flow models. They will also learn about patient selection and planning of a flow diversion case including anesthesia protocols, pre and post procedure medications, technical tips, tricks of Surpass Streamline Flow Diverter deployment, etc. They will be exposed to the practical aspects of a flow diversion case by attending an actual case inside the cath lab with the proctors.
Experience	Physicians need to have performed at least 10 cases

Flow diversion technique

Guragon, India

Level: Advanced

Location	Medanta Medicity Hospital, Gurgaon, Harayana, India
Format	Lectures on the concept of flow diversion and the design intent behind Surpass Streamline Flow Diverter Attending an actual case inside the cath lab with the proctors
Language	English
Curriculum level	Advanced

Hemorrhagic stroke

Flow diversion technique

Guragon, India

Level: Advanced

Course agenda

Day 1	
09:00 - 09:15	Welcome and introductions
09:15 - 10:00	Concepts behind flow diversion and the Surpass Streamline Flow Diverter
10:00 - 10:15	Anesthesia protocols, anti-platelet regime and post procedure critical care
10:15 - 10:45	Importance of access - “Success starts from access”
10:45 -11:00	Break
11:00 - 11:45	Case examples - videos
11:45 - 12:45	Medanta Surpass Streamline experience
12:45 - 13:45	Lunch
13:45 - 14:45	Transfer to Medanta
14:45 - 19:00	Hands-on with flow model, attendee presentations and discussions
19:00	Departure for dinner

Flow diversion technique

Guragon, India

Level: Advanced

Course agenda

Day 2	
09:00 - 09:15	Feedback from day 1
09:15 - 09:45	Case debriefing
09:45 - 10:00	Break
10:00 - 12:45	Live case
12:45 - 14:00	Lunch
14:00 - 14:15	Attendee conclusions and discussions
14:15	End of workshop and departures

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Intracranial atherosclerosis (ICAD)

ICAD patient management

Taipei, Taiwan

Level: Advanced

Course directors	**Prof. Wong Ho Fai** Professor of radiology. Chang Gun Memorial Hospital, Taipei, Taiwan. President of the Neuroradiological Society of Taiwan. Vice President of XXI Symposium Neuroradiologicum, World Congress of Neuroradiology. Member of the Executive Committee of Radiological Society of Republic of China. **Prof. Hon-Man Liu** Chief of neuroradiology, Department of medical imaging. Professor, Department of radiology. Professor, Institute of brain and mind science. Deputy director, Clinical center for neuroscience and behavior. National Taiwan University Hospital. Prof. Hon-Man Liu has published more than 226 articles to date.
Objective	**To build upon current neurointerventional techniques and reduce complication rates.**
Key learning points	Physicians will learn advanced tips & tricks through both theoretical and hands-on training.
Experience	Physicians need to have at least 2 years of experience.

ICAD patient management

Taipei, Taiwan

Level: Advanced

Location	The Residence on the 2nd floor, Grand Hyatt Chang Gung Memorial Hospital
Format	Discussions and hands-on training with flow models
Language	English, Mandarin
Curriculum level	Advanced

Intracranial atherosclerosis (ICAD)

ICAD patient management

Taipei, Taiwan

Level: Advanced

Course agenda

Day 1	
08:30 - 09:00	Intracranial atherosclerosis disease anatomy and treatment history
09:00 - 09:40	Patient selection
09:40 - 10:00	Break
10:00 - 11:00	Treatment techniques with Wingspan Stent System and Gateway PTA Balloon Catheter
11:00 - 12:30	Live case discussion
12:30 - 14:00	Lunch
14:00 - 17:00	Case discussions
17:00	End of 1st day

Day 2	
08:30 - 09:00	Transfer and welcome
09:00 - 10:00	Case briefings
10:00 - 17:00	Live cases
17:00	End of course

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SKILL Training centers

Take your experience to the next level at **Stryker's** worldwide network of SKILL training centers. Our fully equipped labs and customized curriculums offer targeted, personalized training with comprehensive, state-of-the-art facilities and resources. Dedicated to educating healthcare professionals to improve patient care, our globally connected training centers deliver hands-on learning opportunities, including:

- Simulation
- Flow models
- Emerging virtual technologies
- C-arm and other leading-edge lab equipment

Click to see details

Contact us to learn more

SKILL Training centers

Simulation

Stryker offers computer-assisted medical simulation technology for the experiential training of neurointerventional procedures. Providing a realistic, reproducible and safe environment, our simulators allow proctors and participants to

- Create personalized curriculum
- Assess procedural skills
- Customize programs with progressive levels of training

Flow models

Performed under **real-time simulated fluoroscopy**, our flow models enable participants to develop the technical aspects of neuroendovascular procedures and treatments such as

- Diagnostic angiography
- Aneurysm embolization with coils
- Balloon- and stent-assisted coiling
- Mechanical thrombectomy
- Angioplasty and stenting

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Go to map of locations

SKILL Training centers

Salt Lake City, UT

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SKILL Training centers

Amsterdam, The Netherlands

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SKILL Training centers

Suzhou, China

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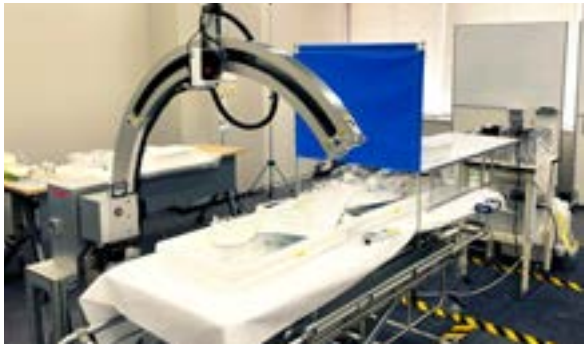
SKILL Training centers

Osaka, Japan



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SKILL Training centers

Tokyo, Japan

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