

AMN NEUROTRAUMA ADVANCED COURSE

SKULL BASE & PENETRATING BRAIN TRAUMA

NTSC EXTENDED | AMN INTENSIVES
2ND EDITION

ĐẠI HỌC Y HÀ NỘI

4TH NOVEMBER 2025
HANOI MEDICAL UNIVERSITY, HANOI, VIETNAM





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COURSE DETAILS

The course is scheduled for Tuesday, Nov 4th, 2025 at Lecture Hall No. 12, Hanoi Medical University.

COURSE GOALS

NTSC Extended | AMN Intensives courses cover theoretical and practical principles for managing neurotrauma, addressing complications, performing state-of-the-art reconstructive surgery and ensuring comprehensive neurorehabilitation.

TARGET PARTICIPANTS

NTSC Extended | AMN Intensives has been developed for neurologists, neurosurgeons, trauma specialists, emergency & ICU physicians, radiologists, anesthesiologists, and rehabilitation specialists who actively work with and/or have strong interest in neurotrauma. The course focuses on interdisciplinary care throughout the 'Chain of Recovery' for neurotrauma patients.

COURSE OBJECTIVES

By the end of this course, participants will have learnt & improved their skills in:

- Applying the latest pre-hospital and acute care guidelines for neurotrauma patients;
- Managing traumatic brain injury and spinal trauma in adult, pediatric, and polytrauma patients;
- Conducting advanced neuromonitoring;
- Planning and perform appropriate operative treatment (eg., decompressive craniotomy, complex cranial reconstruction).

COURSE DESCRIPTION

This course covers the current best strategies and considerations for managing neurotrauma patients and it follows the AMN's principle of multidisciplinary care. The content is delivered using multiple methods. Comprehensive lectures concentrate on the understanding of core material. Interactive case presentations further deepen this knowledge and enrich the discussion in neurotrauma management. Practical sessions teach the application of current principles to the management of common injuries. Case-based discussions link the lecture material and practical skills with the clinical problems encountered in clinical practice.

SPECIAL ADDRESS

The Academy for Multidisciplinary Neurotraumatology (AMN) has a long and distinguished history in organizing international congresses, regional meetings, workshops, and teaching courses. Our core focus has always been to facilitate communication and collaboration between national and international scientific and academic communities.

The renewed vision and mission of the AMN are defined by a singular goal: to elevate the advancement of neurotraumatology - in research, medical practice, and education - to the highest global standard.

The complexity of neurotraumatology demands precision at every stage: from diagnosis and optimal treatment to rigorous monitoring throughout recovery to prevent long-term neurological complications. Because neurotrauma can significantly diminish the brain's reserve, precise neurological procedures are often needed to compensate for affected functions and stimulate neuroregeneration, helping to reestablish the brain's full capacity. The AMN's approach is to link innovation and the latest clinical scientific discoveries with the highly qualified training of human resources. This creates a cohesive, multidisciplinary medical framework essential for high-performance processes in diagnosis, treatment, and rehabilitation. Furthermore, we believe it is crucial to establish an extensive global framework that allows for swift, consistent communication and interactivity with the world's leading neurologists, quickly resolving potential inaccuracies in complicated medical cases.

We are therefore proud to announce the 2nd edition of NTSC Extended – AMN Intensives Training Course, an advanced course focusing on Skull Base & Penetrating Brain Trauma. This course is organized in cooperation with Hanoi Medical University and our valued AMN partners, whose initiatives are highly appreciated.

We joyfully welcome all co-directors, faculty, and participants to this special training course. Our sincere thanks go to Hanoi Medical University, the Vietnamese Neurosurgical Society, and all scientific bodies for their commitment, support, and efforts in developing this educational program.



DAFIN F. MUREȘANU

AMN SECRETARY GENERAL

WELCOME MESSAGE

On behalf of the AMN, the Vietnamese Neurosurgical Society, the Hanoi Medical University, the regional and international faculty, and the local organizer from beautiful Vietnam I would like to welcome you to this world-wide first ever held AMN Neurotrauma Course here in Hanoi, Vietnam!

The Academy for Multidisciplinary Neurotraumatology (AMN) has been founded decades ago and represents a well-known society from world-wide leading experts in the field with the overall goal to improve the educational and practical experiences particular in Neurotrauma patient care and outcomes. The purpose of the AMN is the advancement of neurotraumatology in research, practical education, and teaching. To meet this purpose, the AMN builds upon a tri-dimensional context created by the dynamics involving:

- Organization of international congresses, courses, meetings as well as participation in such events including regional and national workshops and educational activities in all fields of Neurotraumatology.
- Communication between national and international academies, universities, societies and associations concerned with Neurotraumatology in research, practical education, and training.
- Commitment to excellence in education through the organization of courses, workshops, webinars, webcasts, and intensification of cooperation with scientific academies, societies, associations as well as research institutions and entities who are concerned with Neurotraumatology.

Medicine, neurological care, and recovery are too complex to depend upon a single discipline. As such, collaboration is required to be able to make the greatest impact in our patients progress and outcomes based on the four pillars of EDUCATION (providing the highest possible training and education programs based on excellence and driven by experience), CLINICAL PRACTICE (improving medical care by helping produce clinical guidelines), RESEARCH & INNOVATION (fostering research and collaboration), and ADVOCACY (by enhancing the awareness of Neurotraumatology).

Based on all that and the knowledge that Neurotrauma is still one of the most challenging tasks in modern medicine world-wide, we have put together a program, focused on the needs in that exciting field where we hope to meet your expectations. The present program as it is based on decades of experiences, life-long learning, continuous development, study, evaluation, and discussion. One of our main philosophies is, that learning never stops! Therefore, we would highly appreciate if you let us know we could do better! If you have ideas or suggestions for how we can enhance our as well as your learning and educational experience, don't hesitate to contact us.

We hope that your experience with us over the next day will result in the acquisition of new knowledge, skills, and understanding that can directly be translated into improved care and outcomes for your patients.

We encourage you to join the AMN network of professionals, as we work together to improve the results in neuro care and rehabilitation for all our patients.

We also welcome you to this AMN event and wish you a most successful and productive time.

Yours sincerely,



CHRISTIAN MATULA

CHAIRMAN AMN EDUCATIONAL & TRAINING BOARD

WELCOME MESSAGE

Dear distinguished colleagues, faculty members, and participants,

On behalf of the Vietnamese Neurosurgical Society, it is my great honor to welcome you to the AMN Neurotrauma Advanced Training Course, jointly organized by the Academy for Multidisciplinary Neurotraumatology (AMN) and Hanoi Medical University.

This course represents a significant milestone in the advancement of neurotrauma education and multidisciplinary collaboration in Vietnam and the region. Neurotrauma remains one of the most challenging issues in modern medicine, requiring not only surgical expertise but also close coordination among emergency physicians, intensivists, radiologists, and rehabilitation specialists.

Recognizing this need, the Vietnamese Neurosurgical Society has joined hands with AMN to bring to Hanoi an intensive, high-quality educational program based on the latest international guidelines and practical experiences. This course provides participants with a unique opportunity to engage with world-renowned experts, discuss complex cases, and strengthen the network of collaboration between Vietnamese and international professionals in neurotrauma care.

The program combines scientific lectures, debates, and interactive case discussions, focusing on key aspects of skull base trauma, penetrating brain injury, shock room management, and rehabilitation in neurotrauma. Through these sessions, we aim to enhance clinical competence, encourage interdisciplinary communication, and ultimately improve patient outcomes.

I would like to express my sincere gratitude to the AMN leadership, the international faculty—especially Prof. Christian Matula and Prof. Harald Widhalm—for their dedication and support in bringing this world-class training program to Vietnam.

I wish all participants an inspiring and fruitful learning experience. May this course be the beginning of many future collaborations that will advance the quality of neurotrauma care in our country and beyond.

Welcome to Hanoi, and welcome to the AMN Neurotrauma Advanced Course!



Warm regards,

ASSOC. PROF. DONG VAN HE, MD, PHD

PRESIDENT, VIETNAMESE NEUROSURGICAL SOCIETY

ORGANIZER



PROF. DAFIN F. MUREȘANU , MD, PHD

Secretary General AMN (Academy for Multidisciplinary Neurotraumatology)

President of the European Federation of NeuroRehabilitation Societies (EFNR)

Professor of Neurology, Chairman Department of Neurosciences Iuliu Hatieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania

EAN Scientific Panel Neurotraumatology Management Group Committee Member

CO-DIRECTORS



PROF. CHRISTIAN MATULA, MD, PHD

Professor of Neurosurgery, Director of skull base division and head of the Neurotrauma, Neurosurgical Department, Medical University of Vienna, Austria



ASSOC. PROF. DONG VAN HE, MD, PHD

President of Vietnamese Neurosurgical Society

Vice director, VietDuc University Hospital

INTERNATIONAL FACULTY



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Professor of Neurosurgery, Medical University of Vienna,
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PROF. HARALD WIDHALM, MD, PHD

Professor of Neurotraumatology, Medical University of
Vienna, Austria



PRIMA. DR. ANDREAS WINKLER

Specialist in Neurology, Neurosciences, Neurorehabilitation
and Geriatrics

Medical Director of the Institute Neuromed, Center for
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LOCAL FACULTY



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LOCAL FACULTY



**DR. NGUYEN XUAN DONG, MD
(INTERPRETER)**

Department of Rehabilitation, Bach Mai Hospital



**DR. PHAM NGOC HUY
(INTERPRETER)**

Department of Neurosurgery, Viet Duc University Hospital



**LE DUC TAM, MD, MSC
(INTERPRETER)**

Department of Neurosurgery, Hanoi Medical University Hospital

SCIENTIFIC PROGRAM



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NOVEMBER 4TH, 2025

LECTURE HALL 12, HANOI MEDICAL UNIVERSITY

7:30 – 8:00 **REGISTRATION**

MODULE 1 - INTRODUCTION

MODERATORS: Prof. Christian Matula,
 Assoc. Prof. Dong Van He

08:00 – 08:10 Welcome speech
 Course structure, objectives & Precourse assessment
 Assoc. Prof. Dong Van He, Prof. Christian Matula

08:10 – 08:40 **SPECIAL LECTURE I - "SKULL BASE TRAUMA"**
 Prof. Christian Matula

MODULE 2 - BASICS IN SKULL BASE AND PENETRATING BRAIN TRAUMA

MODERATORS: Prof. Christian Matula,
 Assoc. Prof. Dong Van He

08:40 – 09:20 Diagnosis of skull base trauma
 Assoc. Prof. Dong Van He

Post-traumatic CSF leakage
Assoc. Prof. Kieu Dinh Hung

09:20 – 09:30

COFFEE BREAK

**DEBATE 1 – CSF LEAKAGE? LUMBAR DRAINAGE AND ANTIBIOTIC
PROPHYLAXIS VS SURGERY**

MODERATOR: Prof. Christian Matula

09:30 – 10:20

Lumbar drainage & antibiotic prophylaxis: Dr. Le Duc Tam
Surgery: Dr. Duong Trung Kien

10:20 – 10:50

SPECIAL LECTURE II
“SHOCK ROOM MANAGEMENT”

Prof. Harald Widhalm

10:50 – 11:05

Pre-hospital management
Assoc. Prof. Do Ngoc Son

11:05 – 12:00

**INTERACTIVE CASE DEMONSTRATION
AND DISCUSSION I**

Prof. Christian Matula
International & local faculties
Participants

~20 minutes each, (5 minutes presentation followed
by 15 minutes discussion)

PRACTICALS: HOW I AM DOING IT?

Participants present case presentations about
how they do it?

The faculty comment on and discussion.

1. ICP management: How I am doing it?
Assoc. Prof. Duong Dai Ha
2. CSF leakage management: How I am doing it?
Assoc. Prof. Nguyen Thanh Bac

12:00 – 13:00 **LUNCH BREAK & INTERIM SUM-UP**

**MODULE 3 – ADVANCES IN SKULL BASE AND PENETRATING
BRAIN TRAUMA**

MODERATORS:

Prof. Christian Matula,
Assoc. Prof. Duong Dai Ha

13:00 – 13:30

SPECIAL LECTURE III

**POLYTRAUMATIZED PATIENTS HAVING BRAIN
TRAUMA – HOW TO HANDLE IT?**

Prof. Harald Widhalm

13:30 – 14:10

Surgical management of skull base trauma

Assoc. Prof. Nguyen Trong Yen

Endovascular Management of Post-Traumatic Intracranial
Vascular Lesions

Dr. Nguyen Ngoc Cuong

**DEBATE 2 – RECURRENT CHRONIC SUBDURAL HEMATOMA– SURGICAL
OR ENDOVASCULAR INTERVENTION?**

MODERATOR:

Prof. Christian Matula, Assoc. Prof. Duong Dai Ha

14:10 – 15:10

Surgical: Assoc. Prof. Duong Dai Ha

Endovascular: Assoc. Prof. Le Thanh Dung

15:10 – 16:10

**INTERACTIVE CASE DEMONSTRATION
AND DISCUSSION II**

Prof. Christian Matula

International & local faculties

Participants

~20 minutes each, (5 minutes presentation followed
by 15 minutes discussion)

PRACTICALS: HOW I AM DOING IT?

Participants present case presentations about how they do it?

The faculty comment on and discussion.

1. Endoscopic approach in post-traumatic CSF leakage: How I am doing it?
Nguyen Thanh Xuan
2. Endovascular approach in CCF: How I am doing it?
Assoc. Prof. Le Thanh Dung

16:10 – 16:40

SPECIAL LECTURE IV

"CURRENT PRINCIPLES IN NEURO-REHABILITATION AFTER TBI"

Prima. Dr. Andreas Winkler

16:40 – 17:10

SPECIAL LECTURE V

"PENETRATING BRAIN TRAUMA"

Prof. Christian Matula

17:10 – 17:30

OPEN FORUM DISCUSSION BASED ON RELEVANT CASES

All participants and faculties

17:30 – 18:00

SUM-UP & CLOSURE OF THE DAY HANDOVER OF THE CERTIFICATES

Prof. Christian Matula

END OF COURSE

AMN FUNDING GRANTS

Unrestricted educational grants from different sources are collected and pooled together centrally or for specific events by the AMN. All events are planned and scheduled by local and regional AMN multidisciplinary groups based on local needs assessment. We rely on commercial partners for in-kind support to run simulations/skills training if educationally needed.

AMN ORGANIZATION COMPLIANCE

In certain countries where AMN has no office but offers educational events, the AMN cooperates with academic and logistics third-parties. For all interactions, AMN regulations prevail. AMN encourages communication in the local language.

GENERAL INFORMATION

EVENT FEE

The event is free of charge for all registered participants and observers.

COURSE CERTIFICATE

The course certificates can only be provided if the participant attends the entire event (100%) and will be available at the end of the event.

EVALUATION GUIDELINES

All AMN events apply the same evaluation process, either online (pre- and post-event evaluation) or/and onsite by paper and pencil questionnaires. This helps AMN to ensure that we continue to meet your training needs.

DRESS CODE

Smart casual and decent appearance.

NO INSURANCE

The event organization does not take out insurance to cover any individual against accidents, theft or other risks.

SECURITY

Security checks may be conducted at the entrance of the building. Wearing of a name

tag is compulsory during lectures, practical exercises, and group discussions.

MOBILE PHONE USE

Use of mobile phones is not allowed in the lecture halls and in other rooms during educational activities. Please be considerate of others by turning off your mobile phone.

INTELLECTUAL PROPERTY

Event materials, presentations, and case studies are the intellectual property of the event faculty. All rights are reserved. Check hazards and legal restrictions on www.amn.org/legal

Recording, photographing, or copying of lectures, practical exercises, case discussions, or any course materials is strictly forbidden. Participants violating intellectual property will be dismissed. The AMN reserves the right to film, photograph, and audio record during their events. Participants must understand that in this context, they may appear in these recorded materials. The AMN assumes participants agree that these recorded materials may be used for AMN marketing and other purposes and made available to the public.

AMN – PRINCIPLES OF EDUCATIONAL EVENTS

1. ACADEMIC INDEPENDENCE

Development of all curricula, design of scientific event programs, and selection of faculty will be developed in tight cooperation and upon approval by the AMN. The content of the lecture is the sole responsibility of each faculty member. All education is planned based on needs assessment data, designed and evaluated using concepts and evidence from the most current medical education research, and involving the expertise of the AMN Education and Training Board (www.amn.org).

Industry participation is not allowed during the entire curriculum development and planning process to ensure academic independence and keep content free from bias.

2. COMPLIANCE WITH ACCREDITATION AND INDUSTRY CODES

All planning, organization, and execution of educational activities follow existing codes for accreditation of high-quality education:

- Accreditation Criteria of the Accreditation Council for Continuing Medical Education, USA (www.accme.org)
- ACCME Standards for Commercial Support: Standards to Ensure Independence in CME Activities (www.accme.org)
- Criteria for Accreditation of Live Educational Events of the European Accreditation Council for Continuing Medical Education (www.uems.eu)
- Events that receive direct or indirect unrestricted educational grants or in-kind support from industry also follow the ethical codes of the medical industry, such as:
- Eucomed Guidelines on Interactions with Healthcare Professionals (www.medtecheurope.org)
- AdvaMed Code of Ethics on Interactions with Health Care Professionals (www.advamed.org)
- Mecomed Guidelines on Interactions with Healthcare Professionals (www.mecomed.org)

3. BRANDING AND ADVERTISING

No industry logos or advertising are permitted in the area where educational activities take place. Sponsors providing financial or academic support are allowed to have a promotional booth or run activities outside the educational area, with approval from the event chairperson.

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