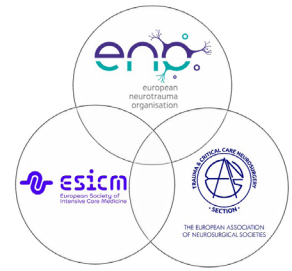




EUROPEAN LUND, SWEDEN
NEUROTRAUMA
SUMMIT NOVEMBER 12-14, 2025



European Neurotrauma Organisation (ENO)

European Society of Intensive Care

Medicine (ESICM)

European Association of Neurosurgical

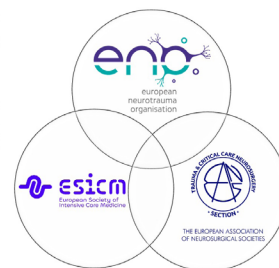
Societies (EANS)- Trauma Section

Neurotrauma Summit Lund

Nov 12-14 2025



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NEUROTRAUMA
SUMMIT NOVEMBER 12-14, 2025



Wednesday November 12th

Venue: Stadshallen

08:00-08:30	Registration
08:30-09:00	Lecture hall: Konsertsalen Introduction and welcome
09:00-10:30	New TBI classification from a European perspective <i>Chairs: Inga Koerte & Niklas Marklund</i> <i>Andrew Maas: The CBI-M Framework for characterization of TBI</i> <i>Virginia Newcombe: Moving from aspiration to application: Challenges to implementing enhanced characterisation in research and clinical care</i> <i>Ramon Diaz-Arrastia: CBI-M: A step in the right direction, but only the first step</i>
10:30-11:00	Coffee break
11:00-12:30	Emerging technologies <i>Chairs: Cecilia Åkerlund & Bart Depreitere</i> <i>Andras Buki, ENO: Adjuncts to multimodal monitoring: protein biomarkers and beyond</i> <i>Ana Maria Castano Leon, EANS: AI in TBI</i> <i>Tom Theys, EANS: Invasive and non-invasive EEG in TBI monitoring</i> <i>Erta Begiri, ESICM: Surfing the waves: ICP-derived mathematical biomarkers</i> <i>Romit Samanta, ESICM: Joining the dots: TBI, neuroinflammation and outcomes</i> <i>Jussi Posti, ENO: Microbiota-gut-brain axis after TBI: any monitoring or treatment targets?</i>
12:30-14:00	Lunch Symposium Roche <i>Andrew Maas; Part 1: The Foundational Role of Biomarkers in Acute Triage</i> <i>Virginia Newcombe; Part 2: Biomarkers as a Dynamic Tool for Monitoring and Secondary Injury</i>



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	Lecture hall: Konsertsalen	Lecture hall: Danssalen	Lecture hall: Amfisalen
	Data Blitz EANS <i>Chairs: Bart Depreitere & Rick Vreeburgh</i> Mechanism of Trimethylamine N-oxide (TMAO) mediated Gut-Brain axis regulation of Depressive-like Behaviors in Chronic Traumatic Brain Injury <i>Xiang Mao et al.,)</i> Exploration of associations between vascular reactivity in acute traumatic brain injury and variation in selected candidate genes <i>Bart Depreitere et al.,)</i> Panels of MicroRNA predict head CT lesions following mild traumatic brain injury <i>Hans Van Der Horn et al.,)</i> Principal Components Analysis of Biomarkers of Neurodegeneration, Inflammation, and Microvascular Disease Discriminate Between Trajectories of Recovery after Traumatic Brain Injury (TBI). <i>Ramon Diaz-Arrastia et al.,)</i> Pathophysiological Insights into Post-Traumatic Amnesia in Mild Traumatic Brain Injury: A CENTER-TBI Study <i>Olivia Rowe et al.,)</i> Serial measurements of Neuron Specific Enolase, Glial Fibrillary Acidic Protein and Neurofilament Light for mortality prediction in patients with severe acute brain injury on the ICU <i>Janneke Horn et al.,)</i> The contribution of traumatic spinal cord injury and surgical laminectomy on intraspinal pressure elevation – findings from a comprehensive porcine study series. <i>Mathias Thygesen et al.,)</i> Endotype discovery in a severe TBI cohort with cerebral microdialysis using dimensionality reduction and clustering techniques <i>Tomasz Kulinski et al.,)</i> Personalised, connectome-guided transcranial magnetic stimulation selectively modulates functional network connectivity in post-concussive syndrome <i>Nasser Bouhalassa et al.,)</i>	Data Blitz ESICM <i>Chairs: Ed Neednam & Shruti Agrawal</i> Altered Brain Network Balance following Mild Traumatic Brain Injury and Its Impact on Emotional Symptoms in Collegiate Athletes <i>Simon Weißbrodet al.,)</i> Early Head and Neck Cooling Reduces Brain Injury Biomarkers in Boxers During the First Week Post-Fight” <i>Ali Ali-Husseini et al.,)</i> Vascular inflammation is linked to intracranial physiology following human severe traumatic brain injury <i>Claudia Ann Smith et al.,)</i> Leptomeningeal vasodilation modulates intracranial pressure influencing barrier dysfunction in ASDH with hemorrhagic shock <i>Marica Pagliarini et al.,)</i> The m-b state framework: revealing metabolic states underlying the lactate/pyruvate ratio to guide personalized therapy in traumatic brain injury <i>Michael Baker et al.,)</i> Electroosmosis-based Novel Technique for Cerebral Edema Treatment <i>Xiaogai Li et al.,)</i> Characterisation of complement activation in human severe traumatic brain injury <i>Claudia Ann Smith et al.,)</i> Sex Differences in brain perfusion following mild traumatic brain injury in children <i>Alessia De Carlo et al.,)</i> Long-term trajectories of persisting post-concussion symptoms and functioning after a mild head injury <i>Toril Skandsen et al.,)</i> Spinal cord blood flow elevation with systemic vasopressor noradrenaline is partly mediated by vasodilation of spinal arteries due to reduced expression of alpha adrenoreceptors <i>Seyar Entezari et al.,)</i>	Data Blitz ENO <i>Chairs: Inga Koerte & Elisa Zanier</i> Investigating white matter microstructure in a mouse model of mild traumatic brain injury <i>Kosiochukwu Emmanuel Umeasalu et al.,)</i> Pro-inflammatory signalling along the P2X7R/NOX2 inflammatory axis in microglia and after experimental TBI <i>Carly Douglas et al.,)</i> P2RY12 in traumatic brain injury: friend or foe according to sex? <i>Valerie Besson et al.,)</i> C3 and CD14 modulate diffuse but not focal neuroinflammation in TBI associated with polytrauma <i>Florian Olde Heuvel et al.,)</i> Pre-existing inflammation does not abrogate neuroprotective actions of mesenchymal stromal cells after traumatic brain injury <i>Costanza Bertani et al.,)</i> A Clinically Relevant Hydrogel for an Integrated Approach Using the Stromal Vascular Fraction in Spinal Cord Injury Treatment <i>Valeria Veneruso et al.,)</i> Endogenous retrovirus activation modulates contralateral brain response influencing antigen-processing programs after intracranial bleeding <i>Marica Pagliarini et al.,)</i> Gut-brain axis modulation by rifaximin treatment improves neurological and anatomical outcomes after traumatic brain injury <i>Francesca Tribuzio et al.,)</i> NLRP3-ASC inflammasomes contributes to sustained glial reactivity and cognitive impairment after TBI <i>Sergio Castro-Gomez et al.,)</i> Brain-infiltrating CD4+ T cells exacerbate microglial reactivity and promote neuronal death after experimental subarachnoid hemorrhage <i>Edoardo Mazzone et al.,)</i>
14:00-15:00			



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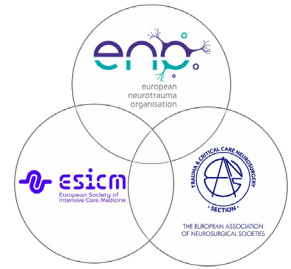
Wednesday November 12th

Venue: Stadshallen

	Lecture hall: Konsertsalen	Lecture hall: Danssalen	Lecture hall: Amfisalen
15:00-15:30	Selected PhD/post-doc presentations EANS <i>Chairs: Bart Depretere & Rick Vreeburgh</i> Acute CT findings and the relation to traumatic axonal injury on early MRI in a large prospective Norwegian cohort of patients with moderate and severe traumatic brain injury <i>Halvor Solheim et al.,)</i> Comparison of predictive tools for management of paediatric mild TBI: a prospective cohort study <i>Fredrik Wickbom et al.,)</i> Performance of CT-Based Prognostic Models in Younger Versus Older Adults with Traumatic Brain Injury <i>Ana Maria Castaño Leon et al.,)</i>	Selected PhD/post-doc presentations ESICM <i>Chairs: Ed Neednam & Shruti Agrawal</i> Punching Through Clearance: Unveiling Glymphatic Dysfunction in Elite Boxers using Diffusion Kurtosis Imaging within Brain Perivascular Spaces <i>Evgenios Kornaropoulos et al.,)</i> Redefining Intracranial Pressure Targets in Elderly Patients with Traumatic Brain Injury: Evidence for a Lower ICP Threshold to Guide Prognosis <i>Jonas Hagemeyer et al.,)</i> Evaluation of Withdrawal of Life-Sustaining Treatment in Traumatic Brain Injury <i>Rick Vreeburg et al.,)</i>	Selected PhD/post-doc presentations ENO <i>Chairs: Inga Koerte & Elisa Zanier</i> Sleep disturbances after pediatric mild traumatic brain injury and their associations with behavior, cognition, and brain structure <i>Anja Betz et al.,)</i> Meningeal Immune-Matrix Remodelling Protects Brain Function after Mild Traumatic Brain injury <i>Amy Dashwood et al.,)</i> Sex hormones shape acute metabolic response to mild traumatic brain injury: A 3T ¹H-MRS study <i>Lisa Fuchs et al.,)</i>
15:30-16:00	Coffee break, poster viewing #1		
16:00-17:00	Lecture hall: Konsertsalen Novel pathobiological mechanisms for classification and treatments <i>Chairs: Ana Maria Castano Leon & Jussi Posti</i> <i>Ed Neednam, ESICM: Dysregulated Inflammation as a Therapeutic Target in TBI</i> <i>Igor Khalin, ENO (BBB): Microthrombosis-Induced Neurovascular Dysfunction after Traumatic Brain Injury</i> <i>Peter Toth, EANS: Chronic neurovascular dysfunction and cognitive decline following severe traumatic brain injury</i>		
17:00-17:20	J Neurotrauma update <i>Nikolaus Plesnila & Niklas Marklund</i>		
19:00-23:00	Get together at AF-borgen		



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Thursday November 13th

Venue: Stadshallen

Lecture hall: Konsertsalen

Imaging, Biomarkers and Monitoring

Chairs: Johan Uden & Virginia Newcombe

Alfonso Lagares, EANS: Report on the BRAINI Study and BRAINI2 Update

Jonathan Coles, ESICM: Understanding metabolic derangements in severe TBI

Inga Koerte, ENO: Seeing What Matters: Neuroimaging Pathways from Repetitive Head Impacts to Neurodegeneration

Coffee break, poster viewing #2

Different approaches to diverse neurotrauma populations

Chairs: Shruti Agrawal & Thomas van Essen

Aurelia Peraud, EANS: Management of pediatric TBI - from the ER to the OR

Shruti Agrawal, ESICM (ESPNIC): Paediatric TBI in the ICU: Reaching New Heights with STARSHIP

Inga Koerte, ENO: Knowing the difference- hormonal and neurovascular modulators of mTBI in athletes

Jonas Stenberg, EANS: Persistent Symptoms Following Mild TBI - Prevalence and Treatment

Mathieu Van der Jagt, ESICM: Older adults and TBI: the intensivist perspective

Alexander Younsi, ENO: TBI prevention and rehabilitation in the elderly population

Lunch Symposium

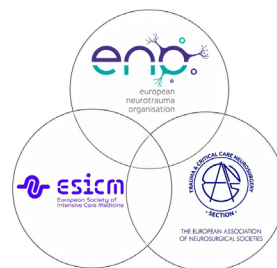
Abbott

Prof. Dr. Maegele

"Blood-Based Biomarkers in Mild Traumatic Brain Injury: Current State and Perspective."



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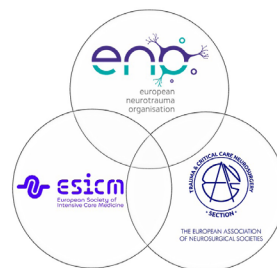
Thursday November 13th

Venue: Stadshallen

	Lecture hall: Konsertsalen	Lecture hall: Amfisalen
14:00-15:00	ENO <i>Chairs: Asla Pitkänen & Adel Helmy</i> Strategies to overcome Translational Gap <i>Nikolaus Plesnila: Lost in translation: identifying the problem and finding solutions</i> <i>Fiona Lecky: TBI Reporter - translational approach</i> <i>Asla Pitkänen: Preclinical multicenter studies as a remedy to cross the translational gap: lessons learned</i>	EANS <i>Chairs: Aurelia Peraud & Alexander Younsi</i> Surgical guidelines: are we up for an update? <i>Thomas Van Essen: ASDH</i> <i>Elham Rostami: Contusions</i> <i>Rick Vreeburgh: DC size, location and outcome; are we decompressing sufficiently?</i> <i>Greg Hawryluk: BTF view and concluding remarks</i>
15:00-15:30	Lecture hall: Konsertsalen Patients' Perspective - spinal cord injury <i>Anna Oredsson</i>	
15:30-16:00	Coffee break, poster viewing #3	
16:00-17:20	Translational aspects of spinal cord injury <i>Chairs: David Loane & Thomas Freimann</i> <i>Ilaria Decimo: SCI Tumor-associated macrophages enhance tumor innervation and spinal cord repair</i> <i>Samira Saadoun: Spinal cord injury: from the lab to the clinic</i> <i>Bart Depretere: Insult burden curves in spinal cord injury</i> <i>Greg Hawryluk: Future development of SIBICC guidelines</i>	
19:00-23:00	Banquet dinner at AF-borgen	



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Friday November 14th

Venue: Stadshallen

	Lecture hall: Konsertsalen
09:00-10:30	Short and Long-term Dynamics of Neurotrauma (from initial insult to neurodegeneration) <i>Chairs: Elham Rostami & Andras Buki</i> <i>Fiona Lecky, ESICM:</i> Clinical outcome trajectories from 3 to 12 months following mild or moderate TBI <i>Cecilia Åkerlund, ESICM:</i> AI to understand acute trajectories <i>Yasmina Molero, EANS:</i> Long-term outcomes of TBI in register-based epidemiological studies <i>Niklas Marklund, EANS:</i> Long-term dementia and CTE in sports concussion <i>Elisa Zanier, ENO:</i> Maladaptive mechanisms underpinning long-term outcome after severe TBI <i>Adel Helmy, ENO:</i> Disordered metabolism and inflammation in TBI
10:30-11:00	Coffee break, posters & exhibition
11:00-12:30	Advancing therapeutic options in Neurotrauma: learning lessons from clinical and experimental studies <i>Chairs: Francesco Roselli & Nikolaus Plesnila</i> <i>Thomas van Essen, EANS:</i> The Brain InFlames after s-TBI; how to tackle the complement system <i>Elisa Bogossian, ESICM:</i> Lessons from the haemoglobin trials <i>Bart Depretere, EANS:</i> Rehabilitation for persistent postconcussion symptoms <i>Asla Pitkänen, ESICM:</i> Hypothesis-driven vs. systems biology approach in preventing epileptogenesis and comorbidities after TBI <i>Francesca Pischiutta, ENO:</i> Mesenchymal stromal cells and their secretome as therapeutic strategy for traumatic brain injury <i>David Loane, ENO:</i> Noxious neuroinflammation: rewiring metabolism to sustain reactive microgliosis after TBI
12:30-14:00	Lunch, posters & exhibition
14:00-15:00	Young Investigators Awards Concluding talks: Future directions/networking ENO/ESICM/EANS
15:00-15:15	Farewell