

NORTH ATLANTIC TREATY ORGANIZATION



SCIENCE AND
TECHNOLOGY
ORGANIZATION



LECTURE SERIES HFM-240

on “Mild Traumatic Brain Injury: Operational and Clinical Implications”

sur “Traumatisme cérébral léger : Implications opérationnelles et cliniques”

organized by the

Human Factors and Medicine Panel

to be held in

Madrid, Spain October 9-10, 2018

This Lecture Series is open to citizens from NATO,
Partnership-for-Peace (PfP), Mediterranean Dialogue
(MD) Nations, Australia, Japan, New Zealand, Republic
of Korea and Singapore

Latest Enrolment Dates:

NATO Nations **2 weeks prior LS date**

Non NATO Nations **2 weeks prior LS date**

Enrol on-line at <https://events.sto.nato.int>

**All presentations and discussions will be held in
English.**

Background

The mission of STO is to conduct and promote co-operative research and information exchange. STO consists of a three level organization: the Science and Technology Board (STB), the Panels and the Technical Teams. The Human Factors and Medicine (HFM) Panel is one of the seven Panels under the STB.

The mission of the Human Factors and Medicine Panel is to provide the science and technology base for optimising safety, health, well being and performance of the human in operational environments with consideration of affordability. This involves understanding and ensuring the physical, physiological, psychological and cognitive compatibility among military personnel, technological systems, missions, and environments. This is accomplished by exchange of information, collaborative experiments and shared field trials.

Theme

Mild traumatic brain injury (mTBI), also known as concussion, is a significant military operational and civilian medical problem. This lecture series will review state of medical knowledge and discuss medical treatment in the deployed as well as post-deployment settings. Participants will leave with increased ability to accurately diagnose mTBI/concussion and to treat patients appropriately.

Topics to be covered:

The RLS will cover the following key topics and dimensions: a description of existing clinical practice for all participating NATO countries; current TBI research; identification of existing gaps in knowledge; and principles for best practices. Specific topics to be addressed will include: the potential impact of mTBI/PCS on Military Operations; the significance of explosive blasts as a mechanism of injury; description of existing Clinical Practice Guidelines; and key features of mTBI/post-concussion syndrome and the co-occurrence and overlap with other physiologic and/or mental health problems, such as PTSD.

Thème

Le traumatisme cérébral léger (TCL), également appelé commotion, est un problème médical important dans le domaine civil comme dans le domaine des opérations militaires. Cette série de conférences passera en revue l'état des connaissances médicales et discutera du traitement médical dans le contexte d'un déploiement et après celui-ci. À l'issue de ces conférences, les participants auront amélioré leur aptitude à diagnostiquer précisément le TCL et à traiter de manière adéquate les militaires en service.

Sujets traités :

La série de conférences de la STO abordera les principaux sujets et aspects suivants : pratique clinique existante dans tous les pays de l'OTAN participants (description), projets de recherche actuels et dates d'achèvement prévues (résumé), identification des lacunes et enfin, principes des meilleures pratiques. Les sujets spécifiques traités seront les suivants : impact potentiel du TCL et des symptômes post-commotionnels (SPC) sur les opérations militaires, importance des souffles d'explosion comme mécanisme de blessure, description des principes directeurs existants de la pratique clinique, caractéristiques essentielles du TCL et des SPC et présence simultanée et recoupement avec les problèmes physiologiques et de santé mentale tels que le syndrome de stress post-traumatique.

Lecture Series Director

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Lecturers

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SERIES PROGRAMME DAY ONE

8:30 Registration

9:00 Opening Ceremony & STO Overview

9:15 Introduction and Overview (Tsao)

9:45 TBI policies of NATO countries (All)

10:30 Break

11:00 Operational considerations/blast TBI (Tsao, Vermetten)

12:00 Lunch Break

13:30 Research/Chronic Traumatic Encephalopathy (Risling)

14:30 Acute evaluation and treatment (Besemann, Mistlin, Tsao)

15:30 Break

16:00 Neurocognitive testing (Tsao, Vermetten)

17:00 End of day 1

DAY TWO

9:00 Management of headache, sleep, endocrine disturbances, dizziness, and balance disequilibrium (Besemann, Mistlin, Tsao)

10:00 Morning Break

10:30 Progressive return to activity following mTBI (Mistlin)

11:30 Rehabilitation of co-morbid polytrauma and psychiatric disturbances (Mistlin, Vermetten)

12:30 Lunch Break

14:00 Long-term consequences of head injury and occupational impairments (Besemann, Tsao)

15:00 Afternoon Break

15:30 Impact on families (Mistlin)

16:15 Concluding Remarks

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A General Information Package with information on travel, accommodation and local arrangements will be placed on the enrollment website. Participants are responsible for their own travel arrangements.

If you are unable to enrol via the internet, please contact the CSO enrolment coordinator: lectureseries@cs0.nato.int

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Contact/Enrollment Coordinator

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