



# TRAUMA TRAINING CENTRE

# COURSE PROSPECTUS



Tan Tock Seng  
HOSPITAL  
— + —  
**TRAUMA SERVICES**  
*...because we care...*



Adding years of healthy life



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## Introduction

TTSH Trauma Centre is a virtual integration of services in the hospital for the care of the trauma patients. We attend to the largest number of trauma patients in Singapore.

**The disciplines involved in the care of our patients are: –**

- Emergency Medicine
- General Surgery
- Orthopaedic Surgery
- Neurosurgery
- Anaesthesiology, Intensive Care & Pain Medicine
- Diagnostic Radiology
- Neuroradiology
- Rehabilitation Medicine

TTSH Trauma Training Centre, the training wing of the Trauma Centre, is a regional trauma training hub. The Centre runs internationally accredited trauma courses such as the Advanced Trauma Care for Nurses (ATCN) Course, the Advanced Trauma Life Support (ATLS) Course, the Definitive Surgical Trauma Care (DSTC) Course, and the Pre-Hospital Trauma Life Support (PHTLS) Course.

Central to TTSH Trauma is the Trauma & Acute Care Surgery Unit, which comes under the Department of General Surgery. The Trauma Unit coordinates the multidisciplinary management of polytrauma patients in the centre.



## Our Specialists



### A/Prof. Chiu Ming Terk

**Designation:**

Head of Department,  
Director of Trauma, A/Prof.  
& Senior Consultant

**Credentials:**

MBBS, FRCS (Edin), FAMS

**Clinical Interests:**

Trauma/Acute Care Surgery,  
General Surgery, Head & Neck Surgery



### Dr. Teo Li-Tserng

**Designation:**

Chief of Service, Senior Consultant

**Credentials:**

MBBS (S'pore), MMed (Surg),  
FRCS (Edin), FAMS

**Clinical Interests:**

Trauma/Acute Care Surgery,  
General Surgery, Colorectal Surgery



### Dr. Chua Wei Chong

**Designation:**

Consultant

**Credentials:**

MBBS (S'pore), MRCS (Edin), MMED (Surg),  
FRCS (Edin), FAMS

**Clinical Interests:**

Trauma/Acute Care Surgery,  
General Surgery, Colorectal Surgery



### Dr. Goh Mui Heng

**Designation:**

Consultant

**Credentials:**

MBBS (S'pore), MRCS (Edin), MMED (Surg), FRCS  
(Edin)

**Clinical Interests:**

Trauma/Acute Care Surgery,  
General Surgery, Breast Surgery

# SINGAPORE TRAUMA

## Annual Conference: Singapore Trauma

Singapore Trauma is an annual trauma conference held in Singapore. This conference features prominent international trauma surgeons, as well as local trauma experts from various hospitals in Singapore.

The 2-day conference comprises segments dealing with the global overview of trauma, critical care, military and austere medicine, controversies and pitfalls in trauma and entertaining debates. The conference also features breakout specialty sessions and free paper presentations.

### Call for Abstracts/ Posters

Delegates are invited to submit abstracts for oral or poster inclusion in the conference proceedings.

For more information, please visit <http://www.singaporetrauma.com>

Supported by:



Chapter of General Surgeons,  
College of Surgeons, Singapore



Symposium

Lectures

Exhibition

Posters

Free  
Papers

Debates



## Advanced Trauma Care for Nurses (ATCN)

The Advanced Trauma Care for Nurses (ATCN) course teaches well-established treatment methods and approaches trauma care in a systematic manner, presenting to the nurses a concise method of establishing assessment and management priorities in the care of the trauma patient.

The program, taught concurrently with approved Advanced Trauma Life Support (ATLS) Course by ATLS physician instructors includes lectures on initial assessment, airway management, abdominal trauma, thoracic trauma, shock, head and spinal cord trauma, burns, extremity trauma, paediatric trauma, trauma in pregnancy, and stabilization and transportation.

Nursing practical skills stations and moulage assessment stations are conducted by ATCN instructors for integration and application of didactic information.

This course includes an educational, collaborative, synchronized team approach to trauma care with the participants of ATLS Course. Doctors and nurses caring for trauma patients have the opportunity to share a common language and approach to trauma care.

### **Course Objectives:**

The ATCN Course provides the participant with basic knowledge necessary to:

- ◆ Assess the patient's condition rapidly and accurately.
- ◆ Resuscitate and stabilize the patient according to priority.
- ◆ Determine if the patient's needs exceed a facility's capabilities.
- ◆ Arrange appropriate definitive care for the patients.
- ◆ Ensure that optimum care is provided.



## Advanced Trauma Life Support (ATLS)

The Advanced Trauma Life Support (ATLS) Program, designed by the American College of Surgeons (ACS) Committee on Trauma (COT), aims to improve the care of trauma patients. The 2-day course includes didactic lectures, an animal practice session and real-time trauma simulation sessions. Doctors will be taught a systematic, concise method of establishing assessment and management priorities in the care of the trauma patients.

The ATLS Program aims to provide the participant with a safe, reliable method to assess the patient's condition rapidly and accurately, resuscitate and stabilize them according to priority, determine if there's a need to transfer the patient to another facility, arrange for inter-hospital transfer and ensure that optimal care is provided.

### Course Objectives:

Upon completion of the course, the participant will be able to:

- ◆ Demonstrate concepts and principles of primary and secondary patient assessment.
- ◆ Establish management priorities in a trauma situation.
- ◆ Initiate primary and secondary management necessary within the "golden hour" for the emergency care of acute life-threatening emergencies.
- ◆ Demonstrate, in a given simulated clinical and surgical skill practicum, trauma management skills in the initial assessment and management of patients with multiple injuries.

Supported by:





## Basic Emergency Sonography for Trauma (BEST)

The Basic Emergency Sonography for Trauma (BEST) course aims to train doctors in the basic principles and practice of ultrasound in the emergency settings of trauma and abdominal aortic aneurysms.

The 2-day course programme comprises of didactic lectures (25%) and hands-on guided practice sessions on real patients (75%). The course faculty comprises of Radiologists, Emergency Physicians, and Trauma Surgeons.

This course is designed for doctors who have to deal with trauma patients in an emergency setting. Non physicians are also welcome.

### **Course Objectives:**

Upon completion of the course, the participant will be able to:

- ◆ Attain essential knowledge and principles to utilize ultrasound technique in trauma management.
- ◆ Develop advance skills and competency of clinical applications of ultrasound in trauma.
- ◆ Demonstrate practical skills with the guide of multidisciplinary faculty.

Supported by:





## Core Resuscitative Skills Training (CREST)

The Core Resuscitative Skills Training, or CREST Course aims at providing doctors with the necessary practical skills in managing critically ill patients. These skills include securing and managing the airway, chest tube insertion, and gaining vascular access (CVP and IA lines).

All these are done through a practical approach, emphasizing hands-on learning of practical skills and practical problems faced when managing these patients. The low participant to tutor ratio allows ample opportunities for hands-on practice, using specially designed mannequins, on procedures such as endotrachael intubation, surgical airway access, chest tube insertions, setting of CVP and IA lines.

This course is specially designed for junior doctors setting out to learn these procedures for the first time, and more senior doctors seeking to refresh these skills.

### **Course Objectives:**

Upon completion of the course, the participant will be able to:

- ◆ Manage the skills with confidence in performing resuscitative procedures on patients.
- ◆ Equip with the knowledge of managing airway for the critically ill patients.
- ◆ Overcome challenges in the event of emergency by conducting hands on practice and problem based scenarios during the lesson.



## Definitive Perioperative Nurses Trauma Care (DPNTC)

Teamwork plays an important role in the management of severely injured patients. As much as surgeons need to be trained in trauma surgery, nurses should also be equipped with sound knowledge of their treatment and management.

The Definitive Perioperative Nurses Trauma Care (DPNTC) Course is designed to provide Perioperative Nurses with the skills necessary to effectively assist surgeons in the Operating Theatres when dealing with life-threatening injuries in the early stages of surgical management.

The DPNTC Course will be delivered to you by a group of very experienced Trauma Surgeons and Nurses. It is conducted in conjunction with the Definitive Surgical Trauma Care (DSTC) Course and is suitable for Perioperative Nurses with a minimum of two years' working experience in the Operating Theatre.

### **Course Objectives:**

Upon completion of the course, the participant will be able to:

- ◆ Comprehend surgical decision-making skills.
- ◆ Familiarise with trauma operative settings with the surgeons.
- ◆ Demonstrate operative technique in the care for critically ill surgical trauma patient.
- ◆ Perform technique on hemorrhage control and ability to handle major thoracic, cardiac and abdominal injuries.



## Definitive Surgical Trauma Care (DSTC)

The Definitive Surgical Trauma Care (DSTC) course is developed under the auspices of the International Association for Trauma Surgery and Intensive Care (IATSIC). It is currently the most advanced trauma course available internationally.

The DSTC is designed to teach qualified surgeons and advanced surgical trainees strategic thinking and decision-making in the management of the severely injured patients and provide them with practical surgical skills to manage major organ injuries. It is an intensive 2-day course comprising lectures, interactive case discussions and animal laboratory based surgical skills training. It boasts a high faculty to participant ratio with the faculty consisting of experienced trauma trained surgeons.

The course has since been established worldwide in Europe, USA, Australia, Asia and South Africa.

### Strategic Thinking and Decision Making Topics:

- ◆ Damage Control in Trauma
- ◆ Blunt and Penetrating Thoracic Injuries
- ◆ Penetrating Injuries to the Neck
- ◆ Abdominal Injuries
- ◆ Pelvic Fractures
- ◆ Vascular Injuries
- ◆ Head Injuries

### Operative Approaches and Surgical Techniques:

- ◆ Thoracotomy and Sternotomy
- ◆ Laparotomy and Packing
- ◆ Fasciotomy
- ◆ Craniotomy
- ◆ Splenectomy and Splenorrhaphy
- ◆ Liver packing
- ◆ Medial Visceral Rotation
- ◆ Duodenal and Pancreatic Repairs
- ◆ Vascular Repairs
- ◆ Cardiac and Pulmonary Repairs



## Pre-Hospital Trauma Life Support (PHTLS)

The National Association of Emergency Medical Technicians (NAEMT) Pre-hospital Trauma Life Support (PHTLS) is recognized around the world as the leading continuing education program for pre-hospital emergency trauma care. The mission of PHTLS is to promote excellence in trauma patient management by all providers involved in the delivery of pre-hospital care through global education. PHTLS is developed by NAEMT in cooperation with the American College of Surgeons' Committee on Trauma. The Committee provides the medical direction and content oversight for the PHTLS program.

The program is based on a pre-hospital trauma care philosophy, stressing the treatment of the multi-system trauma patient as an unique entity with specific needs. This may require an approach to the trauma patient that varies from traditional treatment modalities. PHTLS promotes critical thinking as the foundation for providing quality care. It is based on the belief that, given a good fund of knowledge and key principles, pre-hospital practitioners are capable of making reasoned decisions regarding patient care. The PHTLS course is continuously updated and revised to keep up with the advances in the field, ATLS Guidelines and feedback from PHTLS participants.

### Course Objectives:

- ◆ To provide a description of the physiology, pathophysiology, and kinetics of injury.
- ◆ To provide an understanding of the need for a rapid assessment of the trauma patient.
- ◆ To advance the participant's level of knowledge in regard to examination and diagnostic skills.
- ◆ To advance the participant's level of competence in regard to specific pre-hospital trauma intervention skills.
- ◆ To provide an overview and establish a management method for the pre-hospital care of the multi-system trauma patient.



## Trauma Orientation Programme (TOP)

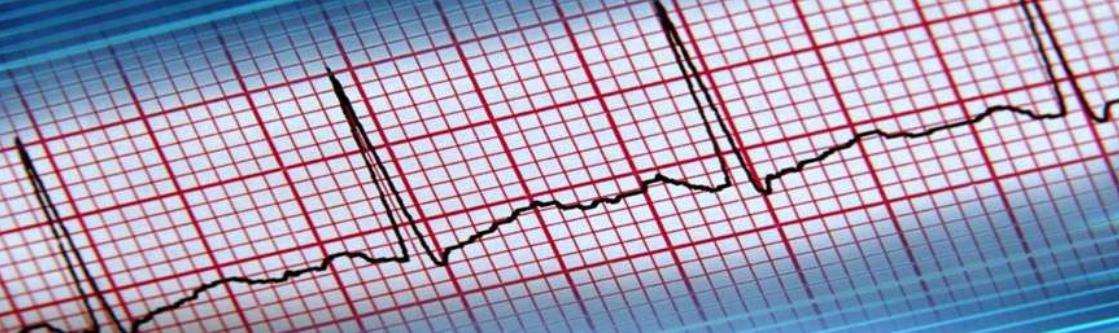
This half-a-day programme provides an introduction to trauma management and basic trauma protocols, and emphasizes teamwork and communication between participants and course faculty. Participants will be able to obtain first-hand knowledge from members of the multidisciplinary trauma team comprising of Anaesthetists, Orthopaedic Surgeons, Emergency Physicians and Trauma Surgeons. In addition, participants will have the opportunity to work as a team in a simulated trauma setting.

This course is suitable for junior doctors and nurses who are unfamiliar with current trauma procedures.

### Course Objectives:

Participants are exposed to various topics on trauma management.

- ◆ Have an overview of major trauma.
- ◆ Familiarise with the procedures involved during a trauma activation.
- ◆ Understand clearance of spinal injuries.
- ◆ Steps for management of blunt & penetrating injuries.
- ◆ Factors for considering non-operative management of trauma.
- ◆ How to mitigate the "Triad of Death".
- ◆ The pitfalls when encountering major trauma.



## Cancellation Policy

We regret that no refund will be made once course materials have been sent. Any replacement must be conveyed to the organizer in writing one month prior to the course.

The organizer reserves the right to cancel the workshop and fully refund the participants should unforeseen circumstances necessitate it. TTSH Trauma Service accepts no responsibility for covering airfare, hotel or other costs incurred by the registrant.

## Modes of Payment

1.	Cheque - Please make it payable to <b>Tan Tock Seng Hospital Pte Ltd</b> and mail to:	<b>Mailing address</b> 11 Jalan Tan Tock Seng, Annex 1 Level 4, Singapore 308433 <b>[Attention to: Executive, Trauma Service c/o Department of General Surgery]</b>
2.	Visa/ Master Card – Please complete the transaction form on page 15	Please fax or email the completed form to TTSH Trauma Service <b>Fax:</b> 6357 7809 <b>[Attention to: Executive, Trauma Service]</b> <b>Email:</b> trauma@ttsh.com.sg
3.	Telegraphic Transfer	<b>[Attention to: Executive Trauma Service]</b> <b>Account Name :</b> TAN TOCK SENG HOSPITAL PTE LTD <b>Bank Name :</b> DBS BANK LTD SINGAPORE <b>Bank Branch Name :</b> SINGAPORE BRANCH (Branch Code 003) <b>Bank Account No.</b> : 0039273550 <b>Bank SWIFT Code</b> : DBSSSGSG

# Registration Form

Full Name

\*as you want it to appear on certificate

Institution/Hospital

Designation

Department/Specialty

NRIC/FIN/SNB No.

\*For Nurses working in Singapore

MCR. No.

\*For doctors working in Singapore

Full Mailing Address

Mobile Contact No.

Email

Are you a vegetarian?

Yes     No

Do you have issues working on porcine models?     Yes     No

Course Date:

\*Please visit our website or contact us for detailed course date  
<http://www.ttsh.com.sg/trauma-training-centre/>

Course	Freq/ year	Fees ( Inclusive of Goods & Services Tax	
<b>*Please (v) tick accordingly</b>			
ATCN	2	<input type="checkbox"/> Tan Tock Seng Hospital Nurses	SGD 400
		<input type="checkbox"/> Others	SGD 450
ATLS	6-8	<input type="checkbox"/> Tan Tock Seng Hospital Doctors	SGD 800
		<input type="checkbox"/> Others & Overseas	SGD 850
BEST	2	<input type="checkbox"/> All	SGD 321
CREST	4	<input type="checkbox"/> Tan Tock Seng Hospital Doctors	SGD 400
		<input type="checkbox"/> Others & Overseas	SGD 450
DPNTC	1-2	<input type="checkbox"/> All	SGD 321
DSTC	1-2	<input type="checkbox"/> Observer & Refresher	SGD 250
		<input type="checkbox"/> Surgical Trainees	SGD 1070
		<input type="checkbox"/> Consultant & Overseas Delegates	SGD 1284
PHTLS	2	<input type="checkbox"/> Tan Tock Seng Hospital Staff	SGD 400
		<input type="checkbox"/> Others	SGD 450
<b>Conference:</b> <b>Singapore Trauma</b>		*Please visit our website or contact us for details <a href="http://www.singaporetrauma.com">http://www.singaporetrauma.com</a>	

## **SETTLEMENT OF COURSE FEES VIA VISA/MASTERCARD**

Please email/fax completed form to [trauma@ttsh.com.sg](mailto:trauma@ttsh.com.sg) / +65-6357 7809

Please charge to my Visa/Master Card account the following bill.

## I) PARTICIPANT'S PARTICULARS

Full Name:

**Course Fees ( Inclusive of Goods & Services Tax ) Course Fees (Inclusive of Goods & Services Tax )**

Please (✓) tick accordingly

<b>ATCN</b>	<input type="checkbox"/> TTSH Nurses <input type="checkbox"/> Others	SGD 400	<b>DPNTC</b>	<input type="checkbox"/> All <input type="checkbox"/> Observer & Refresher	SGD 321
<b>ATLS</b>	<input type="checkbox"/> TTSH Doctors <input type="checkbox"/> Others & Overseas	SGD 800 SGD 850	<b>DSTC</b>	<input type="checkbox"/> Surgical Trainees <input type="checkbox"/> Consultant & Overseas Delegates	SGD 250 SGD 1070 SGD 1284
<b>BEST</b>	<input type="checkbox"/> All	SGD 321	<b>PHTLS</b>	<input type="checkbox"/> TTSH Staff	SGD 400
<b>CREST</b>	<input type="checkbox"/> TTSH Doctors <input type="checkbox"/> Others & Overseas	SGD 400 SGD 450		<input type="checkbox"/> Others <input type="checkbox"/> Singapore Trauma	SGD 450 SGD *—

Total Amount: SGD

\* Please indicate the amount

## II) CARDHOLDER'S PARTICULARS

Name as on the Card:

Contact Number : \_\_\_\_\_

Visa/MasterCard Number:

/ / /

CSV Number (found on reverse side of the card):

1

Expiry Date:  M  M  Y  Y

Amount Charged: SGD

Cardholder's Signature:

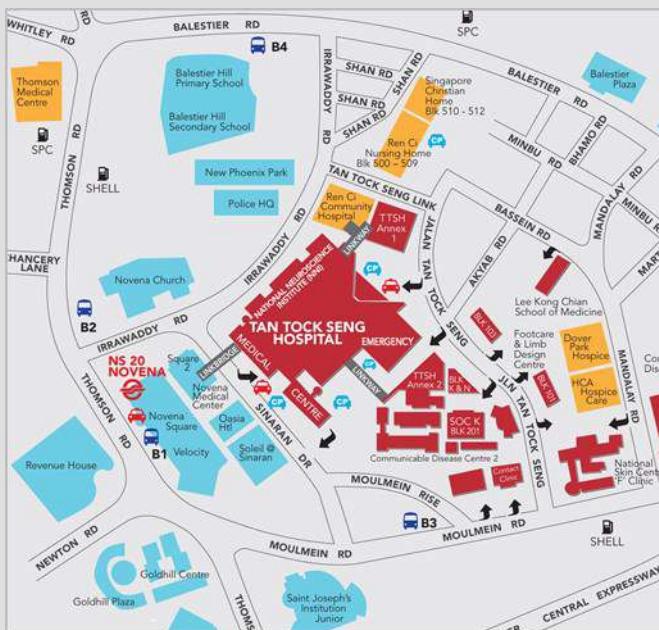
### III) NOTICE TO PARTICIPANTS AND CARDHOLDERS

- a) All prices are quoted per person and do not include travel and other personal expenses of the registrant. We reserve the right to increase the price at any time.
  - b) This form is only used by participants who wish to settle their course fees using their Visa/MasterCard. Participants who wish to settle their fees using other methods of payments are requested to ignore this form.
  - c) Please note that the above constitutes an instruction given by the cardholder to Tan Tock Seng Hospital Pte Ltd to settle the course fees for the participant using the above Visa/MasterCard.
  - d) To avoid any form of inconvenience, all participants and cardholders are kindly requested to ensure the information furnished above are accurate and complete. This form must be returned to Tan Tock Seng Hospital Pte Ltd to the attention of the 'TTSH Trauma Training Centre' within the organizer's stipulated period.
  - e) The hospital reserves the right to reject the use of a particular credit card.
  - f) All fees are subject to change without prior notice.





# LOCATION MAP



## Contact us

For future course dates, travel arrangements and other enquiries, please contact us at :

Executive, Trauma Service  
c/o Department of General Surgery  
11 Jalan Tan Tock Seng  
Singapore 308433

Tel : (65) 6357 7661 / 3112  
Fax : (65) 6357 7809  
Email : [trauma@ttsh.com.sg](mailto:trauma@ttsh.com.sg)

For more information, please visit  
<http://www.ttsh.com.sg/trauma-training-centre/>