

**MAY 26 - 28TH, 2017**  
erc elpen | athens, greece

**GLOBAL SURGERY**  
**EMERGENCY**  
case studies

co - organization



**100+years**

AMERICAN COLLEGE OF SURGEONS

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## **Emergency Global Surgery - Case Studies**

**Dates: May 26 - 28, 2017**

### **Description/Purpose of Activity**

Today, according to the WHO, approximately 2 billion people are lacking access to basic surgical care, leading to significant morbidity and mortality. If we consider that the training model in current surgical education has been increasingly towards specialization, given the increased amount and complexity of knowledge, we can see that there is a need to provide surgeons with a more "generalist" approach, in order for them to be more effective, especially in areas with overwhelmed medical systems.. The role of the general and emergency surgeon in the field of high-quality universal health care delivery is, nowadays, considered to be extremely important for the efficient functioning of every health system.

The goal of this workshop is to address the needs that young physicians have, in order to be able to function in a low-resource environment and treat basic general and emergency surgical problems. In under-developed and developing countries the surgical practitioner has to be a true "generalist", able to handle and effectively manage an array of surgical conditions.

Considering the current financial crisis, that affects almost every part of the world, the modern physician has to be fully able to quickly develop a therapeutic plan that is both patient-centered and cost-effective in its implementation. Furthermore, the humanitarian aspect of the doctor-patient relationship leads the medical community to the conclusion that equitable surgical care services should be universally available and affordable.

Particularly in Greece, such innovative courses are indispensable and believed to be especially fruitful for the next generation of medical doctors in the long term. The heavy financial austerity measures of the last years, as well as the large influx of war-driven refugees and migrants from the Middle East have developed the need to scale up the level and efficiency of all medical services provided, and especially the role of surgery in this regard.

### **Targeted Audience**

Our 3-day course will be addressed to physicians and residents, as well as senior medical students. It is going to provide skills training and theoretical education in a number of basic surgical procedures presented through case studies, and would be of interest to any health professional interested in humanitarian and emergency surgery.

According to the demand, the clinical skills training part of our course will be mostly available to physicians and final-year medical students, with the theoretical part being available to other health care professionals and younger medical students for observation.

Since many of the ACS faculty members that will participate as speakers and instructors in the course are also faculty members in academic university institutions, wide dissemination of the course is sure to raise the awareness of the need of universal high-quality health care among medical students throughout Greece. Thus, medical students will be strongly motivated to observe the course and even take part in the training practical cases, if they are in their final year of studies.

This course has the added advantage that it presents an educational tool (skills-based learning and case-based learning) which although it has been extensively validated in several international educational systems, it is still lacking from the Greek medical educational armamentarium.

## Learning Objectives

- Become acquainted with the procedural steps of basic surgical skills and operations, within different surgical subspecialties. By the end of the course, the participants will be expected to have understood the rationale behind the basic surgical approach to the patient, especially in the emergency setting.
- Refresh the basic knowledge of structured clinical approach and differential diagnosis in the emergency department and of basic imaging and laboratory procedures that are most often used as a primary helping tool in the diagnosis and management in low-resource settings.
- Develop awareness and sensitivity, regarding the aspect of humanitarian surgery in low-income countries and in situations with little resources. The need for global equality in surgical and anesthesia care regardless of a country's financial standing is also to be analyzed and explained.

## Course Program

The 3-day course will include the theoretical part during the morning sessions and the skills lab in the afternoon. The presentations and the skills lab will take place at the "ELPEN" Experimental – Research and Simulation Center with the Director Professor Papalois, participating together with his team in the course.



<b>1st Day</b>	<b>Topic</b>	<b>Speaker</b>
08:00-08:30	Registration	
08:30-09:00	A Systematic Approach to Patient Safety using a Safety triangle	<b>Sideris Michael</b>
09:00-09:30	Plastic Surgery: Burns	<b>Lymperopoulos Nikolaos</b>
09:30-10:00	Break	
10:00-10:30	Emergency situations in neurosurgery	<b>Tsitsopoulos Parmenion</b>
10:30-11:00	Emergency situations in OB/Gyn	<b>Sideris Michael</b>
11:00-11:30	Gunshot and blast emergencies in orthopaedics. Assessment and management	<b>Ignatiadis Ioannis</b>
11:30-12:00	Military - Humanitarian Trauma	<b>Kalogeropoulos Athanasios</b>
12:00-12:30	The future of Emergency Surgery in Greece	<b>Tepetes Konstantinos</b>
12:30-13:00	The role of Laparoscopy in Emergency Surgery	<b>Konstantinos Konstantinidis</b>
13:00-13:30	Surgical Decision Making in a Low Resource Environment - A Shift in Mindset	<b>Litwin Demetrius</b>
13:30-14:00	Lunch Break	
14:00-18:00	Experimental Research Center- Skills Stations	
Station 1	Wound Debridement	<b>Faculty of the Research and Experimental Center</b>
Station 2	Catheterization of the difficult bladder	<b>Stravodimos Konstantinos</b>
Station 3	Use of Video Laryngoscopes. How to formulate airway management plans.	<b>Tzimas Athanasios</b> <b>Papalois Apostolos</b>
Station 4	Case discussion	<b>Walid Faraj, Ali Hallal, Gurney Jennifer</b>
Station 5	Laparoscopic surgery in an animal model (abdomen with ascetic fluid) Trainers: <b>Sideris Michalis, Kalogeropoulos Athanasios, Athanasopoulos Panagiotis</b>	
Station 6	Management of thoracic trauma in an animal model Trainers: <b>Degiannis Elias, Haytham Kaafarani</b>	
Station 7	Emergency surgery in an animal model (laparotomy model) Trainers: <b>Ntourakis Dimitrios, Plastiras Aris, Poullos Euthymios, Christodoulou Spyridon</b>	
Station 8	Break	
19:00	Opening Reception - Iatriko Kentro	Opening Ceremony
19:15-19:30	The importance of a research-experimental center in surgical education - The Greek experience.	<b>Apostolos E. Papalois</b>
19:30	The role of the ACS in International Surgical Education	<b>Patricia Turner</b>

2nd Day	Topic	Speaker
08:00-08:30	Overview of 1st Day and plan for the 2nd Day	
08:30-09:00	Principles in the management of the multi-trauma patient	<b>Kaafarani Haytham</b>
09:00-09:30	Thoracic trauma and emergency surgery	<b>Degiannis Elias</b>
09:30-10:00	Acute abdomen: obstruction	<b>Uranues Selman</b>
10:00-10:30	Break	
10:30-11:00	Acute abdomen: Bleeding	<b>Haider Adil</b>
11:00-11:30	Vascular Surgery Emergencies	<b>Hoballah Jamal</b>
11:30-12:00	Emergency Surgery in the Intensive Care Unit	<b>Hallal Ali</b>
12:00-12:30	Emergency HPB Surgery	<b>Schulick Richard</b>
12:30-13:30	Great Cases to remember (or forget)!	<b>Velmahos George</b>
13:30-14:00	Break and Family Photo	

14:00-18:00 Experimental Research Center - Skills Stations

Station 1 Management of vascular trauma

Trainers: **Saratzis Nikolaos, Lazaridis Ioannis, Degermetzoglou Nikolaos**

Station 2 Open emergency surgical procedures in an animal model

Trainers: **Sideris Michalis, Athanasopoulos Panagiotis, Christodoulou Spyridon**

Station 3 Plastic Surgery: Management of burn wounds in an animal model

Trainer: **Lymperopoulos Nikolaos, Karmiris Nikolaos**

Station 4 Neurosurgical emergency procedures using simulation model

Trainers: **Tsitsopoulos Parmenion, Bimpis Alexios**

Station 5 Intraosseous Bone infusion

**Kalogeropoulos Athanasios**

Station 6 Trauma Laparotomy and Emergency Surgical Procedures in an animal model

Trainers: **Plastiras Aris**

Station 7 Laparoscopic surgery in an animal model

Trainers: **Ntourakis Dimitrios, Haytham Kaafarani, Euthymios Poullos**

Station 8 Break

**3rd Day Topic Speaker**

08:00-08:30 Plan of the day

08:30-09:00 Tactical trauma in urban conflict

**Kalogeropoulos Athanasios**

09:00-09:30 Multiple casualty trauma - The Boston Marathon attack

**Velmahos George**

09:30-10:00 Military trauma

**Gurney Jennifer**

10:00-10:30 Break

10:30-13:30 Hyper-realistic Simulation for multi-casualty trauma

**Andersen Nikolai**



# Faculty

## US-based and International faculty

**Andersen Nikolai**, Director of PPA-International Medical, Head, Live Tissue Course.

**Degiannis Elias**, MD, PhD, FACS, Professor of Surgery, Chris Hani Baragwanath Hospital in Johannesburg, South Africa

**Faraj Walid**, MD, FACS, Associate Professor of Surgery, Department of Surgery, American University of Beirut, Beirut, Lebanon

**Gurney Jennifer**, MD, FACS Trauma Surgeon and Trauma System Development Chief at the USAISR Joint Trauma System.

**Haider Adil**, MD, MPH, FACS, Kessler Director, Center for Surgery and Public Health, Brigham and Women's Hospital, Harvard Medical School and Harvard School of Public Health, Boston, Massachusetts

**Hallal Ali**, MD, FACS, Assistant Professor of Clinical Surgery, American University of Beirut, Lebanon

**Hoballah Jamal**, MD, MBA, FACS, Chairman of the International Activities Workgroup of the ACS Board of Governors, Professor and Chairman of Surgery at the American University of Beirut, Beirut, Lebanon

**Kaafarani Haytham**, MD, FACS, Director of Patient Safety & Quality, Trauma & Emergency Surgery, Assistant Professor of Surgery, Massachusetts General Hospital, Harvard Medical School, Boston

**Litwin Demetrius**, MD, FACS, Professor of Surgery, Chairman of the Department of Surgery at the University of Massachusetts

**Schulick Richard**, MD, MBA, FACS, The Aragon/Gonzalez-Gust Chair, Professor & Chair of Surgery at the University of Colorado School of Medicine, Denver, Colorado

**Turner Patricia**, MD, FACS, Director of the Division of Member Services, American College of Surgeons. Clinical Associate Professor of Surgery at The University of Chicago Medicine.

**Uranues Selman**, MD, FACS, Professor of Surgery, Head of Section of Surgical Research, Medical University of Graz, Graz, Austria

**Velmahos George**, MD, FACS, John F. Burke Professor of Surgery, Harvard Medical School, Chair Division Chief of Trauma, Emergency Surgery and Critical Care, Massachusetts General Hospital, Boston, MA Chairman of the International Relations Committee of the American College of Surgeons

## Additional Faculty

**Athanasopoulos Panagiotis**, MD, Consultant Surgeon, HPB and Minimally Invasive Surgery.

**Bimpis Alexios**, MD, PhD, Consultant Neurosurgeon, General Hospital of Tripoli, Greece.

**Christodoulou Spyridon**, MD, Consultant General Surgeon, Post-CCT Senior Clinical Fellow

**Degermetzoglou Nikolaos**, MD, Consultant Vascular Surgeon

**Ignatiadis Ioannis**, MD, PhD, Orthopedic & Hand Surgeon, Head Department of Reconstructive Microsurgery of the Limbs, Athens Medical Group / Psichico Clinic, Athens, Greece

**Kalogeropoulos Athanasios**, MD, Visiting Lecturer NATO COE MILMED, Hellenic Navy, Live Tissue Course Instructor.

**Karmiris Nikolaos**, MD, FEBOPRAS, Consultant Plastic Surgeon

**Konstantinidis Konstantinos**, MD, PhD, FACS, Adjunct Professor of Surgery, Ohio State University, Director of General, Bariatric, Laparoscopic and Robotic Surgery at the Athens Medical Group, Athens, Greece.

**Lazaridis Ioannis**, MD, PhD, Associate Professor of Vascular Surgery, Aristotle University School of Health Sciences

**Linos Dimitrios**, MD, PhD, FACS, Governor of the Greek Chapter of the ACS, Consultant in Surgery Massachusetts General Hospital, Professor of Surgery, National and Kapodistrian University of Athens

**Lymperopoulos Nikolaos**, MD, MRCS, ST6 Trainee in Plastic Surgery, Mersey Deanery, UK.

**Ntourakis Dimitrios**, MD, PhD, Lecturer in General Surgery at the European University of Cyprus, Scientific Associate at the National and Kapodistrian University of Athens

**Papalois E. Apostolos**, PhD, KGSJ, AMACS, Director of the Experimental Research Center ELPEN, Visiting Professor Harvard Medical School.

**Plastiras Aris**, MD, Senior Clinical Research Fellow , Colorectal Department , King's College Hospital London

**Poulios Euthymios**, MD, Clinical Associate Surgeon at 5th University Surgical Clinic, Surgeon in 1st Surgical Clinic D.T.C.A Hygeia Hospital Athens, Greece 2009-2017

**Saratzis Nikolaos**, MD, PhD, Professor of Vascular Surgery, Aristotle University School of Health Sciences

**Sideris Michael**, MD, PhD, NHS Academic Clinical Fellow, London Deanery, London and The Bart's Medical School, Queen Mary's University London

**Stravodimos Konstantinos**, MD, PhD, Associate Professor of Urology, National and Kapodistrian University of Athens

**Tepetes Konstantinos**, MD, PhD, FACS, Professor of Surgery and Chairman of the Surgical Department of the University of Thessaly School of Health Sciences

**Tsitopoulos Parmenion**, MD, PhD, Assistant Professor of Neurosurgery, Aristotle University of Thessaloniki, Greece

**Tzimas Athanasios**, Video – laryngoscope Instructor, Pentax-Papapostolou

## Experimental - Research and Simulation Center ELPEN

### Faculty and Staff:

**Apostolos E. Papalois**, PhD, KGSJ, AMACS, Director, Visiting Professor, Harvard Medical School

**Argyro Zacharioudaki**, DVM, MLAS, PhD ( c ),Veterinary Department, Felasa - C

**Evripidis Gerakis**, Department of Animal Facilities, Felasa - B

**Stergios Gerakis**, Department of Animal Facilities, Felasa - B

**Eleftheria Karampela**, MSc, Medical Department, Felasa - C

**Maria Karamperi**, Laboratory Department, Felasa - C

**Antonios Karaiskos**, Technical Department & Mutlimedia, Felasa - C

**Nikolaos Psychalakis**, MSc, Department of Training Courses & Infrastructure, Felasa - C

**Georgios Stagias**, MSc, Department of Administartive Support, Felasa - B and C

**Kalliopi Tsarea**, Nursing Department, Felasa - C

**Charikleia Vidopoulou**, Staff

### Course Support

The course is under the auspices of the Athens University, School of Medicine (National and Kapodistrian University of Athens).

