



e-smart

SMART MEETING ANESTHESIA RESUSCITATION INTENSIVE CARE

31° SMART - VIRTUAL MEETING
November 13-15, **2020**

Program

www.e-smart2020.org



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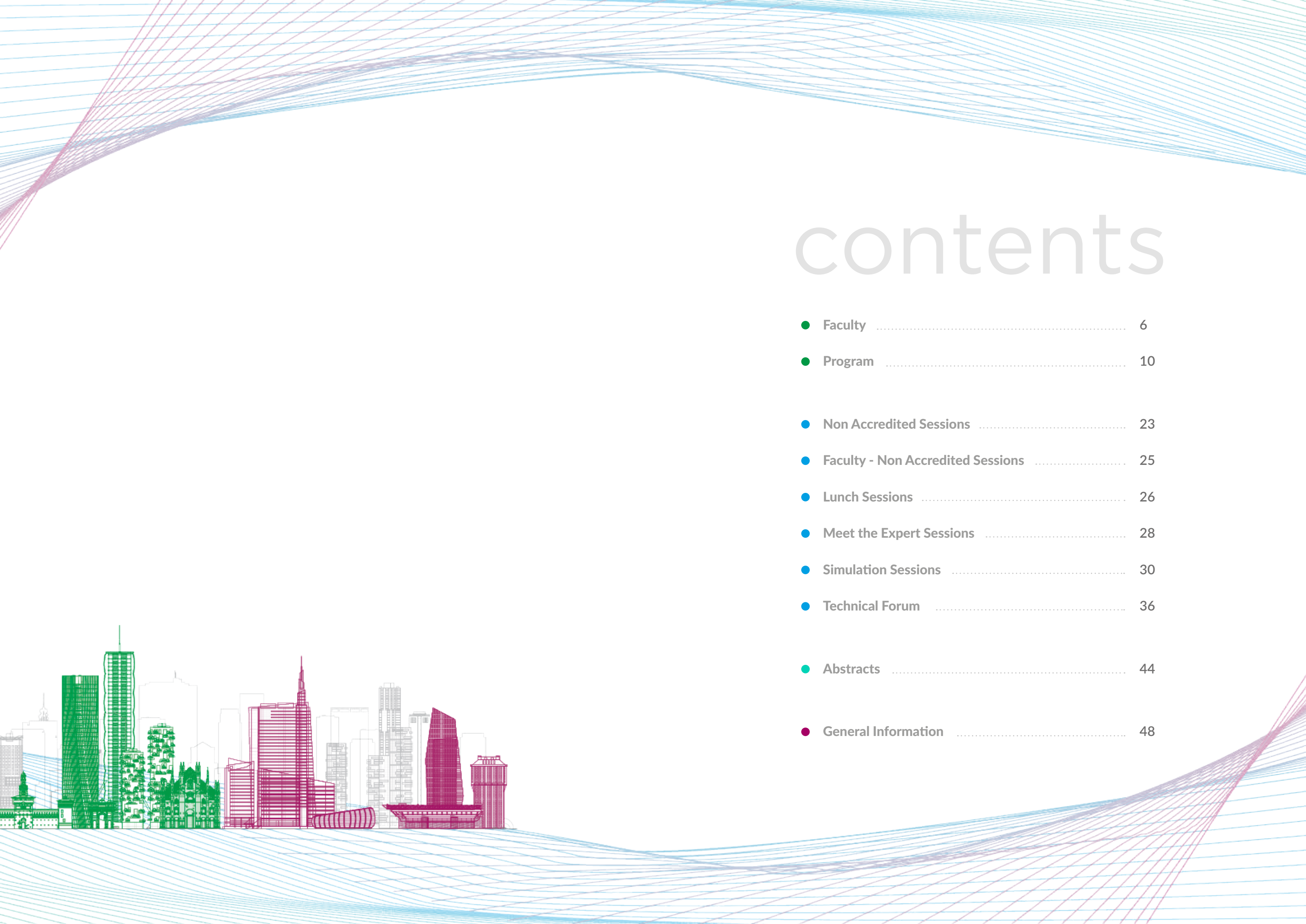
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Program

ALL TIMES STATED IN CET (Central European Time)

EDUCATIONAL ACCREDITATION OF THE 31° SMART - VIRTUAL MEETING

ECM accreditation

The 31° SMART - Virtual Meeting has been accredited by the Italian Ministry of Health (**27 ECM credits for year 2020**). In the Italian system (ECM) the meeting has been accredited as "FAD Sincrona - corsi in diretta su piattaforma multimediale dedicata (aula virtuale, webinar)". See page 52 for details.

EACCME® accreditation

The 31° SMART - Virtual Meeting has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with **18 European CME credits** (ECMEC®s). In the European system (EACCME®/UEMS) the meeting has been accredited as LEE (Live Educational Event). See page 53 for details.

ACCREDITAMENTO FORMATIVO DEL 31° SMART - VIRTUAL MEETING

Accreditamento ECM

Il 31° SMART - Virtual Meeting è stato accreditato presso il Ministero della Salute (**27 crediti ECM per l'anno 2020**). Nel sistema italiano (ECM), il meeting è stato accreditato come "FAD Sincrona - corsi in diretta su piattaforma multimediale dedicata (aula virtuale, webinar)". Dettagli a pag. 52.

Accreditamento EACCME®.

Il 31° SMART - Virtual Meeting è stato accreditato presso l'European Accreditation Council for Continuing Medical Education (EACCME®) con **18 Crediti CME Europei** (ECMEC®). Nel sistema europeo (EACCME®/UEMS), il meeting è stato accreditato come LEE (Live Educational Event). Dettagli a pag. 53.

LANGUAGE: **All the scientific sessions will be in English.**

LINGUA: **Tutte le sessioni scientifiche saranno in lingua inglese.**

BROWN HALL 1

ECM - Modulo 1A

HOT TOPICS IN CARDIAC INTENSIVE CARE

Chairperson: F. Sangalli

- 9.00 Pharmacological or mechanical circulatory support in cardiogenic shock?
S. Bouchez
- 9.20 Organ dysfunction after LVAD implantation
N. Marczin
- 9.40 Hemodynamic and arterial elastance by pulse contour in patients undergoing light sedation for TAVI
S.M. Romano
- 10.00 The importance of cardiovascular coupling in the daily management of critically ill patients
F. Guarracino
- 10.20 Arterial stiffness: assessment and clinical implications
S. Scolletta
- 10.40 Discussion
- 11.00 Break and Exhibition Visit

ECM - Modulo 2A

HOT TOPICS IN CARDIOTHORACIC ANESTHESIA

Chairperson: N. Marczin

- 11.30 Tubeless thoracic surgery: myth or reality?
E. Cohen
- 11.45 When is 3D echo essential, when useful, when it's a waste of time?
J. Fassl
- 12.00 Neuromonitoring and neurocognitive outcomes in cardiac surgery
G. Kunst
- 12.15 Discussion
- 12.30 Lunch Break

BROWN HALL 2

ECM - Modulo 1B

TAILORING THERAPEUTIC STRATEGIES IN ACUTE BRAIN INJURY GUIDED BY...

Chairperson: R. Helbok

- 9.00 Pupillometry
G. Citerio
- 9.20 Brain ultrasound
P. Bouzat
- 9.40 ICP-derived parameters
G. Meyfroidt
- 10.00 Brain tissue oxygenation
F.S. Taccone
- 10.20 qEEG
A. Caricato
- 10.40 Discussion
- 11.00 Break and Exhibition Visit

ECM - Modulo 2B

TRAUMATIC BRAIN INJURY 2020: CENTER-TBI

Chairperson: C. Robba

- 11.30 Center-TBI: what is changing in TBI epidemiology and early treatment?
H.F. Lingsma
- 11.45 ICU patients: data from Center-TBI
E.J.A. Wiegers
- 12.00 Extracranial complications: impact on outcome
G. Citerio
- 12.15 Discussion
- 12.30 Lunch Break

AMBER HALL 1

ECM - Modulo 1C

SEPSIS CODE FROM ED TO THE ICU

Chairperson: M. Girardis

- 9.00 Are clinical signs enough?
K. Donadello
- 9.20 Antibiotic strategy: always fast and furious?
J. De Waele
- 9.40 Saline or balanced? Albumin is better
P. Caironi
- 10.00 Vasopressors: myths and evidences
M. Singer
- 10.20 Source control: an essential but overlooked treatment
R. Ferrer Roca
- 10.40 Discussion
- 11.00 Break and Exhibition Visit

ECM - Modulo 2C

INNOVATION IN THORACIC ANESTHESIA

Chairperson: E.G. Bignami

- 11.30 Protective ventilation in thoracic surgery
M. Senturk
- 11.45 Should we follow the driving pressure for optimal management of OLV?
F. Piccioni
- 12.00 Bioengineered lung: is that the future?
E. Cohen
- 12.15 Discussion
- 12.30 Lunch Break

AMBER HALL 2

ECM - Modulo 1D

HOT TOPICS IN PEDIATRIC ANESTHESIA

Chairperson: S. Tesoro

- 9.00 Reduction of risk in pediatric anesthesia: what should we know, what should we do
N. Disma
- 9.20 Pediatric difficult airway
F. Tosi
- 9.40 Perioperative fluid management in children: can we sum it all up now?
T. Langer
- 10.00 Perioperative care in pediatric anesthesia
A. Mancino
- 10.20 Close-to-the-nerve vs. interfascial plane blocks: sniper rifle vs shotgun
P.A. Lönnqvist
- 10.40 Discussion
- 11.00 Break and Exhibition Visit

ECM - Modulo 2D

ESPNIC Endorsement POINT-OF-CARE ULTRASOUND IN PICU AND NICU

Chairperson: G. Conti

- 11.30 ESPNIC guidelines for point-of-care ultrasound in PICU and NICU
Y. Singh
- 11.45 How to optimize the use of ultrasound for vascular accesses
M. Pittiruti
- 12.00 Lung ultrasound in pediatric critical care: where are we?
D. De Luca
- 12.15 Discussion
- 12.30 Lunch Break

AMBER HALL 3

ECM - Modulo 1E

ENERGY AND FEEDING ROUTE

Chairperson: M.M. Berger

- 9.00 Glutamine: why should we give it
P. Stehle
- 9.20 Hypophosphatemia: a frequent life-threatening issue
C. Ichai
- 9.40 Glucose control: still actual?
J.C. Preiser
- 10.00 Overfeeding: a killer
M.M. Berger
- 10.20 Intermittent enteral feeding the first week?
J.C. Preiser
- 10.40 Discussion
- 11.00 Break and Exhibition Visit

ECM - Modulo 2E

METABOLIC SUPPORT: WHAT AND HOW MUCH

Chairperson: C. Ichai

- 11.30 Optimal feeding route in sepsis
A. Reintam Blaser
- 11.45 How to use indirect calorimetry
M.M. Berger
- 12.00 Individualized feeding
C. Ichai
- 12.15 Discussion
- 12.30 Lunch Break

AMBER HALL 4

ECM - Modulo 1F

SMART TUTORIALS 1

- 9.00 Respiratory physiology: the essential to manage a critical patient
L. Heunks
- 9.30 Setting and monitoring mechanical ventilation in the restrictive patient
G. Foti
- 10.00 Setting and monitoring mechanical ventilation in the obstructive patient
C.A. Volta
- 10.30 Cardiac output measurement techniques
S. Scolletta
- 11.00 Break and Exhibition Visit

ECM - Modulo 2F

SMART TUTORIALS 2

- 11.30 High flow nasal cannula: indications and technique
A. Cortegiani
- 12.00 Understanding a gas analysis: from numbers to the respiratory and cardiocirculatory status
L. Camporota
- 12.30 Lunch Break

BROWN HALL 1

ECM - Modulo 3A

VENOARTERIAL
ECMO

Chairperson: D. Brodie

- 14.30 **E-CPR:**
where are we going?
A. Hutin
- 14.50 **Monitoring during
VA-ECMO**
F. Sangalli
- 15.10 **Extracorporeal organ support
for DCD: perspective and limits**
M. Sacchi
- 15.30 **DCD heart retrieval
and transplantation**
A. Rubino
- 15.50 **Discussion**
- 16.00 *Break and Exhibition Visit*

ECM - Modulo 4A

IMPROVING ORGAN AVAILABILITY
FOR TRANSPLANT

Chairperson: F. Procaccio

- 16.30 **What can we do?**
R. Badenes
- 16.50 **What we actually do**
M. Zanierato
- 17.10 **Optimizing the lung**
A. Zanella
- 17.30 **Optimizing the liver**
P. Muiesan
- 17.50 **Discussion**

BROWN HALL 2

ECM - Modulo 3B

ISCHEMIC
STROKE

Chairperson: G. Citerio

- 14.30 **Anesthesia and intensive care
for acute ischemic stroke**
P. Bouzat
- 14.50 **Ischemic stroke 2020: more and
more aggressive with treatments**
R. Helbok
- 15.10 **Mechanical ventilation in stroke
patients: is there a consensus?**
C. Robba
- 15.30 **Decompressive craniectomy
for ischemic stroke:
is it worth doing?**
C. Giussani
- 15.50 **Discussion**
- 16.00 *Break and Exhibition Visit*

ECM - Modulo 4B

NOVEL ASPECTS OF
ANALGOSEDATION IN THE ICU

Chairperson: D. Pasero

- 16.30 **Dexmedetomidine for sedation
in the ICU**
G. Conti
- 16.50 **Volatile anesthetics**
G. Foti
- 17.10 **Epidural analgesia in the ICU**
J.M. Constantin
- 17.30 **Discussion**

AMBER HALL 1

ECM - Modulo 3C

ARTERIAL PRESSURE MONITORING:
WHERE AND HOW?

Chairperson: D. Payen

- 14.30 **MAP-targeted fluid resuscitation
should be abandoned!**
Z. Molnar
- 14.50 **The clinical interest of arterial
elastance for the clinician**
D. Payen
- 15.10 **Arterial pressure and cardiac
output, just a matter
of resistance?**
M. Singer
- 15.30 **Discussion**
- 16.00 *Break and Exhibition Visit*

ECM - Modulo 4C

WHAT'S NEW IN
PAIN THERAPY

Chairperson: F. Borrometi

- 16.30 **Opioid effect and side
effect variability**
K. Meissner
- 16.50 **Opioid-sparing anesthetic
strategies**
E. Albrecht
- 17.10 **Can we prevent chronic
postsurgical pain with
regional anesthesia?**
V. Mossetti
- 17.30 **How are you going to
treat persistent chronic
postsurgical pain?**
P.M. Ingelmo
- 17.50 **Discussion**

AMBER HALL 2

ECM - Modulo 3D

EXTRACORPOREAL THERAPIES
IN SEPSIS

Chairperson: A. Pesenti

- 14.30 **Cytokine removal**
C. Ince
- 14.50 **Endotoxin removal**
M. Antonelli
- 15.10 **An international registry on the
use of extracorporeal absorption**
F. Hawchar
- 15.30 **A bioreactor for immune
support**
S. Mitzner
- 15.50 **Discussion**
- 16.00 *Break and Exhibition Visit*

ECM - Modulo 4D

ACUTE RENAL
FAILURE

Chairperson: J. Zimmerman

- 16.30 **AKI biomarkers**
B. McNicholas
- 16.50 **Acute kidney injury
and ventilator settings**
A. Vieillard-Baron
- 17.10 **PRO-CON DEBATE**
**Furosemide:
when and how?**
Pro: J. Kellum
Con: D. Payen
- 17.50 **Discussion**

AMBER HALL 3

ECM - Modulo 3E

ULTRASOUND IS MY BEDSIDE
TOOL FOR... PART 1

Chairperson: F. Rubulotta

- 14.30 **Neuromonitoring**
C. Robba
- 14.50 **Pain management**
G. Russo
- 15.10 **Lung monitoring**
S. Mongodi
- 15.30 **Hemodynamic
management**
G. Tavazzi
- 15.50 **Discussion**
- 16.00 *Break and Exhibition Visit*

ECM - Modulo 4E

ULTRASOUND IS MY BEDSIDE
TOOL FOR... PART 2

Chairperson: F. Rubulotta

- 16.30 **Setting the ventilator**
F. Mojoli
- 16.50 **Renal function
assessment**
F. Corradi
- 17.10 **An integrated approach
to the surgical patient**
B. Bouhemad
- 17.30 **Monitoring of weaning
from mechanical
ventilation**
S. Mongodi
- 17.50 **Discussion**

AMBER HALL 4

ECM - Modulo 3F

SMART TUTORIALS 3

- 14.30 **The mechanical power
as a target for VILI
prevention**
F. Collino
- 15.00 **Cardiocardiology
physiology: the essential
to manage a critical
patient**
D. Payen
- 15.30 **101 Brain monitoring
for anesthesiologists
and intensivists**
H. Amirfarzan
- 16.00 *Break and Exhibition Visit*

ECM - Modulo 4F

SMART TUTORIALS 4

- 16.30 **Correct use of cardiovascular
drugs in the critical patient**
F. Guarracino
- 17.00 **Echocardiography in the
management of septic shock**
G. Tavazzi
- 17.30 **Basic echocardiographic
evaluation of the cardiac
function**
F. Corradi

BROWN HALL 1

ECM - Modulo 5A

ADJUNCTIVE THERAPIES IN COVID-19 CRITICALLY ILL PATIENTS

Chairperson: G. Poulakou

- 9.00 Steroids? Yes, of course
K. Baillie
- 9.20 Heparin: time and dose
M. Panigada
- 9.40 The double edged sword of cytokine blockade therapies
S. Busani
- 10.00 Antibiotic therapy
G. Montrucchio
- 10.20 Discussion
- 11.00 Break and Exhibition Visit

ECM - Modulo 6A

HOT TOPICS IN THE ICU

Chairperson: S. Rossi

- 11.30 Conservative oxygen therapy during MV in the ICU
M. Girardis
- 11.45 Immune checkpoint inhibitors in sepsis: where are we?
M. Shankar-Hari
- 12.00 New therapy-related life-threatening toxicity in patients with malignancies. What the intensivist should know
E. Azoulay
- 12.15 Discussion
- 12.30 Lunch Break

BROWN HALL 2

ECM - Modulo 5B

ARTIFICIAL INTELLIGENCE AND BIG DATA

Chairperson: E.G. Bignami

- 9.00 Technology for managing the complexity
A. Ercole
- 9.20 Artificial intelligence: the way to go for Intensive Care Medicine
M. Cecconi
- 9.40 PRO-CON DEBATE
Is research from Big Data reliable?
Pro: E.G. Bignami
Not sure: O.L. Cremer
Con: M. Girardis
- 10.30 Discussion
- 11.00 Break and Exhibition Visit

ECM - Modulo 6B

ABDOMINAL ISSUES IN THE ICU PATIENT

Chairperson: A. Reintam Blaser

- 11.45 Abdominal infections as a sepsis source: diagnosis and management
F. Di Benedetto
- 12.00 Microbiota in the ICU: not only a gut problem
A. Gori
- 12.15 Discussion
- 12.30 Lunch Break

AMBER HALL 1

ECM - Modulo 5C

DIFFICULT INFECTIONS IN DIFFICULT PATIENTS

Chairperson: A. Bandera

- 9.00 Co-infection in influenza
J.F. Timsit
- 9.20 How to improve antibiotic effectiveness in the ICU: TDM approach
F. Pea
- 9.40 Infections in ECMO patients
G. Grasselli
- 10.00 Oncology and hematology patients
P. Pickkers
- 10.20 Fungal recommendations. What if patient is critically ill?
M. Bassetti
- 10.40 Discussion
- 11.00 Break and Exhibition Visit

ECM - Modulo 6C

MECHANICAL VENTILATION AND VILI

Chairperson: N. Juffermans

- 11.30 Impact of PEEP on RV function
A. Vieillard-Baron
- 11.45 Mechanical power, VILI and mortality: what are the links?
T. Tonetti
- 12.00 Intraoperative mechanical ventilation
C. Ferrando Ortola
- 12.15 Discussion
- 12.30 Lunch Break

AMBER HALL 2

ECM - Modulo 5D

ELECTROLYTES IN THE ICU: ANYTHING NEW?

Chairperson: L.G. Forni

- 9.20 Low sodium concentration in the critically ill: when to worry?
L. Gattinoni
- 9.40 Electrolytes in the urine: how to use them?
P. Caironi
- 10.00 Electrolytes and acid-base equilibrium: where is the linkage?
T. Langer
- 10.20 Hyperchloremic acidosis: a new way to control it
A. Zanella
- 10.40 Discussion
- 11.00 Break and Exhibition Visit

ECM - Modulo 6D

NASAL HIGH FLOW OXYGEN IN THE CLINICAL ARENA: PATIENT CASES AND NEW INDICATIONS

Chairperson: T. Mauri

- 11.30 Clinical and physiological effects of NHF in tracheotomized patients
S.M. Maggiore
- 11.45 NHF in patients with postoperative respiratory failure
A.W. Thille
- 12.00 Combination of NHF and extracorporeal CO₂ removal in patients with acute asthma
G. Grasselli
- 12.15 Discussion
- 12.30 Lunch Break

AMBER HALL 3

ECM - Modulo 5E

COVID-19 BEYOND RESPIRATORY FAILURE

Chairperson: L. Brazzi

- 9.00 Secondary infections: virus or treatments?
G. Grasselli
- 9.20 Neurological complications
H. Merdji
- 9.40 The role of renal failure and its management
M. Ostermann
- 10.00 Post-COVID Syndrome: the need for a multidisciplinary approach
P. Bonfanti
- 10.20 Discussion
- 11.00 Break and Exhibition Visit

AMBER HALL 4

ECM - Modulo 5F

SMART TUTORIALS 5

- 9.00 Nutritional strategy in the critically ill
M.M. Berger
- 9.30 Sedation in the ICU
J.M. Constantin
- 10.00 Basic interpretation of acid base balance
T. Langer
- 10.30 Fluid management
M. Cecconi
- 11.00 Break and Exhibition Visit

ECM - Modulo 6F

SMART TUTORIALS 6

- 11.30 It's up to you: new bedside signals to set the ventilator
D. Colombo
- 12.00 Fluid management in hemorrhagic shock
T. Woolley
- 12.30 Lunch Break

BROWN HALL 1

ECM - Modulo 7A

ESOPHAGEAL PRESSURE AND PEEP TITRATION

Chairperson: P. Rocco

- 14.30 **Determinants of esophageal-pleural pressure relationship in normal man**
I. Pasticci
- 14.50 **The neglected variable in mechanical ventilation: lung volumes and transpulmonary pressures**
L. Gattinoni
- 15.10 **Is esophageal pressure reflective of pleural pressure?**
D. Chiumello
- 15.30 **Esophageal pressure to guide PEEP titration: does it make sense?**
M. Quintel
- 15.50 **Discussion**
- 16.00 *Break and Exhibition Visit*

ECM - Modulo 8A

SEPSIS SCIENCE: PEARLS AND PITFALLS

Chairperson: L. Abrahão Hajjar

- 16.30 **The 12 elements that can improve outcome in sepsis**
J.L. Vincent
- 16.50 **Sepsis phenotypes: a step forward to personalized treatments**
D. Payen
- 17.10 **Has Sepsis-3 changed my approach to septic patient?**
M. Shankar-Hari
- 17.30 **Sepsis and fake news: putting data in perspective**
M. Singer
- 17.50 **Discussion**

BROWN HALL 2

ECM - Modulo 7B

INTERACTIVE SESSION CHALLENGING SCENARIOS

Chairperson: S. Romagnoli

- 14.30 **Necrotising fasciitis beyond first hours**
G. De Pascale, A. Bandera
- 15.00 **How to treat severe CAP**
A. Cortegiani, J. De Waele
- 15.30 **Patients with cardiac dysfunction and sepsis**
S. Romagnoli, F. Guarracino
- 16.00 *Break and Exhibition visit*

ECM - Modulo 8B

AIRWAY MANAGEMENT IN CRITICALLY ILL PATIENTS

Chairperson: S.N. Myatra

- 16.30 **Intubation-related morbidity and mortality - the Intube study results**
V. Russotto
- 16.50 **Role of videolaryngoscopes in the ICU**
J.B. Lascarrou
- 17.10 **Does high-flow nasal cannula reduce intubation problems?**
C. Guitton
- 17.30 **Human factors in airway management**
M. Sorbello
- 17.50 **Discussion**

AMBER HALL 1

ECM - Modulo 7C

HYPOTHERMIA VS. NORMOTHERMIA AFTER CARDIAC ARREST: WHAT IS THE TARGET IN TTM? NEW & OLD EVIDENCES

Chairperson: C. Sandroni

- 14.30 **PRO therapeutic hypothermia (33°C): the evidence from the FINNRESUSCI and TTH48**
M. Skrifvars
- 14.50 **CONTRA therapeutic hypothermia in favor of normothermia (36°C): the evidence from the TTM**
T. Pellis
- 15.10 **Targeted temperature management for cardiac arrest with nonshockable rhythm: the new evidence from the HYPERION trial**
A. Cariou
- 15.30 **Early intra-arrest cooling: does it work? The evidence from the PRINCESS trial**
P. Nordberg
- 15.50 **Discussion**
- 16.00 *Break and Exhibition Visit*

ECM - Modulo 8C

IMPROVING CARDIOPULMONARY RESUSCITATION

Chairperson: G. Ristagno

- 16.30 **What is quality of CPR? Much more than chest compression depth, fraction, and rate**
L. Wik
- 16.50 **What is the best ventilation strategy during CPR?**
G. Ristagno
- 17.10 **Resuscitative endovascular balloon occlusion of the aorta for refractory cardiac arrest**
C. Coniglio
- 17.30 **Extracorporeal cardiopulmonary resuscitation in refractory cardiac arrest: to whom and when**
M. Skrifvars
- 17.50 **Neurophysiology and neuroimaging to predict poor neurological outcome after cardiac arrest**
C. Sandroni
- 18.10 **Discussion**

AMBER HALL 2

ECM - Modulo 7D

NEW STRATEGIES FOR DIFFICULT BUGS

Chairperson: M. Bassetti

- 14.30 **New strategies in identification and treatment of invasive fungal infections**
J. De Waele
- 14.50 **Stratification of patients at risk for carbapenem resistant infections**
P. Viale
- 15.10 **Empiric therapy for the superbugs**
M. Bassetti
- 15.30 **How to dose new antibiotics**
F. Pea
- 15.50 **Discussion**
- 16.00 *Break and Exhibition Visit*

ECM - Modulo 8D

UNSOLVED QUESTIONS IN TRAUMA

Chairperson: C. Fontana

- 16.30 **Golden hour in trauma: is it still enough?**
N. Rachedi
- 16.50 **Resuscitation and hemostasis: overload vs under-resuscitation. Could whole blood be the solution?**
P.C. Spinella
- 17.10 **Hemorrhagic shock: to tube or not to tube?**
T. Woolley
- 17.30 **Pre-hospital use of REBOA in uncontrollable bleedings**
T.M. Hörer
- 17.50 **Discussion**

AMBER HALL 3

ECM - Modulo 7E

EXTRACORPOREAL LIFE SUPPORT: NEW EVIDENCES - PART 1

Chairperson: N. Patroniti

- 14.30 **ECCO2R for COPD. Time for a new star: the ORION study**
V.M. Ranieri
- 14.50 **Lung recruitability in ECMO-treated ARDS patients**
L. Camporota
- 15.10 **Sedation and early mobilization in ECMO**
D. Brodie
- 15.30 **The future of ECMO trials**
N.D. Ferguson
- 15.50 **Discussion**
- 16.00 *Break and Exhibition Visit*

ECM - Modulo 8E

EXTRACORPOREAL LIFE SUPPORT: NEW EVIDENCES - PART 2

Chairperson: V.M. Antonini

- 16.30 **ECMO: is it over?**
D. Talmor
- 16.50 **PRO-CON DEBATE**
ECMO improves oxygenation
Pro: A. Pesenti
Con: M. Quintel
- 17.10 **Discussion**

AMBER HALL 4

ECM - Modulo 7F

SMART TUTORIALS 7

- 14.30 **Perioperative optimization**
S. Romagnoli
- 15.00 **Optimal use of antibiotics in the ICU**
J.F. Timsit
- 15.30 **Diagnosis of cerebral or cardiac death for organ donation**
M. Zanierato
- 16.00 *Break and Exhibition Visit*

ECM - Modulo 8F

PRO-CON DEBATE
THE BEST RESPIRATORY TREATMENT FOR COVID-19 PNEUMONIA

Chairperson: L.B. Ware

- 16.30 **COVID-19 is a typical ARDS**
J. Laffey
- 16.50 **COVID-19 is an atypical ARDS**
L. Gattinoni
- 17.10 **Approach early intubation with trepidation**
M. Tobin
- 17.30 **Late intubation is a disaster**
J.J. Marini
- 17.50 **Discussion**

BROWN HALL 1

ECM - Modulo 9A

UPDATE ON MDR/XDR MICROORGANISMS: PREVENTION, FAST MICROBIOLOGY AND MANAGEMENT

Chairperson: G. De Pascale

- 9.00 Reducing the risk: successful strategies in infection control
C. Mussini
- 9.20 Fast and syndromic approach to microorganisms
G. Rossolini
- 9.40 How to identify patient at risk
P. Viale
- 10.00 New mechanisms of resistance and novel antibiotics
J.F. Timsit
- 10.20 De-escalation: when and how
L. De Bus
- 10.40 Discussion
- 11.00 Break and Exhibition Visit

ECM - Modulo 10A

ACUTE RESPIRATORY DISTRESS SYNDROME OR SIMPLY ARF?

Chairperson: L.B. Ware

- 11.30 Lessons from the LUNG SAFE study
A. Pesenti
- 11.45 Protective ventilation in non-ARDS patients: different rules?
P. Pelosi
- 12.00 The Radiographic Assessment of Lung Edema (RALE) score, a new tool for quantifying pulmonary edema on the chest radiograph
L.B. Ware
- 12.15 Discussion
- 12.30 Lunch Break

BROWN HALL 2

ECM - Modulo 9B

SMART NURSING INFECTION CONTROL IN THE ICU DURING COVID-19 PANDEMIC

Chairperson: E. Mattiussi

- 9.00 The burden of ICU environmental contamination
V. Rusotto
- 9.20 The dark side of mobile calling in the ICU
A. Galazzi
- 9.40 Vascular access devices in COVID-19 patients
S. Elli
- 10.00 The "chlorhexidine ICU affair": what's new, what's old
S. Bambi
- 10.20 Medical masks and respirators for the protection from SARS-CoV-2
P. Iozzo
- 10.40 Discussion
- 11.00 Break and Exhibition Visit

ECM - Modulo 10B

SMART NURSING HUMANIZING THE INTENSIVE CARE UNIT

Chairperson: R. Fumagalli

- 11.30 How to implement a nurse led follow-up program
J. Froulund Jensen
- 11.45 ICU diary: an Italian experience
S. Villa
- 12.00 Introducing the video call during COVID-19 pandemic
A. Negro
- 12.15 Discussion
- 12.30 Lunch Break

AMBER HALL 1

ECM - Modulo 9C

SEPSIS BEYOND THE FIRST HOUR

Chairperson: K. Donadello

- 9.20 Is it time for small volume and low pressure approach?
M. Singer
- 9.40 When I need more: rationale for adjunctive therapies
P. Pickkers
- 10.00 Blood purification: evidences and hopes
S. Romagnoli
- 10.20 The long-term effects of sepsis
M. Shankar-Hari
- 10.40 Discussion
- 11.00 Break and Exhibition Visit

ECM - Modulo 10C

LOOKING OUTSIDE THE USUAL BOX: NON ISCHEMIC CAUSES OF CARDIOGENIC SHOCK

Chairperson: I. Blangetti

- 11.30 Stress cardiomyopathies
G. Tavazzi
- 11.45 Arrhythmogenic cardiomyopathies
G. De Ferrari
- 12.00 Fulminant myocarditis
M. Imazio
- 12.15 Discussion
- 12.30 Lunch Break

AMBER HALL 2

ECM - Modulo 9D

REGIONAL ANESTHESIA IN THE DAILY CLINICAL PRACTICE

Chairperson: A. Behr

- 9.00 Chest wall plane blocks and cancer breast surgery: evidence and outcomes
D. Johnston
- 9.20 Abdominal wall blocks: should we give up the epidural?
D. Bugada
- 9.40 Enhanced recovery strategies for total knee replacement
G. Cappelleri
- 10.00 New blocks for thoracic surgery: a new tool?
M. Senturk
- 10.20 Regional anesthesia for outpatients: to do or not to do?
A. Fanelli
- 10.40 Discussion
- 11.00 Break and Exhibition Visit

ECM - Modulo 10D

FASCIA PLANE BLOCKS: FACT OR FICTION?

Chairperson: D. Johnston

- 11.30 The cornerstone of fascia plane blocks
A. Behr
- 11.45 Fact
D. Johnston
- 12.00 Fiction
A. Fanelli
- 12.15 Discussion
- 12.30 Lunch Break

AMBER HALL 3

ECM - Modulo 9E

PERIOPERATIVE MANAGEMENT OF VENTILATION

Chairperson: N. Juffermans

- 9.00 **PRO-CON DEBATE**
Is low tidal volume ventilation protective in anesthesia?
Pro: J. Laffey
Con: D. Mascheroni
- 9.40 The issue of perioperative hyperoxia
C. Ferrando Ortola
- 10.00 Noninvasive oxygenation support in perioperative medicine
J.M. Constantin
- 10.20 The role of blood transfusion in perioperative respiratory failure
N. Juffermans
- 10.40 Discussion
- 11.00 Break and Exhibition Visit

ECM - Modulo 10E

NONINVASIVE VENTILATION

Chairperson: M. Rocco

- 11.30 Noninvasive ventilation versus oxygen therapy in patients with acute respiratory failure
D.L. Grieco
- 11.45 How to maximize the chances of NIV success?
G. Foti
- 12.00 The use of noninvasive ventilation to facilitate weaning and early extubation
A.W. Thille
- 12.15 Discussion
- 12.30 Lunch Break

AMBER HALL 4

ECM - Modulo 9F

SMART TUTORIALS 9

- 9.00 Perioperative thromboprophylaxis
M. Panigada
- 9.30 Arterial pressure control during general anesthesia to prevent postoperative organ damage
E. Futier
- 10.00 Anesthesia for interventional cardiac procedures
F. Guarracino
- 10.30 Anaphylaxis in anesthesia
P.M. Mertes
- 11.00 Break and Exhibition Visit

ECM - Modulo 10F

SMART TUTORIALS 10

- 11.30 Strategy for the difficult-to-intubate patient
M. Sorbello
- 12.00 Managing postoperative pain
D. Bugada
- 12.30 Lunch Break

BROWN HALL 1

ECM - Modulo 11A

ACID BASE/ELECTROLYTES

Chairperson: M. Ostermann

- 14.30 Yes, again Stewart. But, do you remember it?
J. Kellum
- 14.50 Boston rules: what's really behind these numbers?
T. Langer
- 15.10 Diagnosis and management of hypernatremia in the ICU
C. Ichai
- 15.30 Potassium everywhere: intravenous fluids in renal failure
P. Caironi
- 15.50 Discussion
- 16.00 Break and Exhibition Visit

ECM - Modulo 12A

COAGULOPATHY IN THE CRITICALLY ILL

Chairperson: V. Agostini

- 16.30 Sepsis and coagulation, anything new?
K. Szuldrzyński
- 16.50 Severe thrombophilia in intensive care
A. Artoni
- 17.10 Antithrombin during ECMO: rationale and current practice
A. Protti
- 17.30 Is there a place for antithrombin during ECMO?
M. Panigada
- 17.50 Discussion

BROWN HALL 2

ECM - Modulo 11B

SMART NURSING
NURSING WORKLOAD IN THE ICU

Chairperson: M.C. Gallani

- 14.30 The evaluation of nursing workload in an Italian ECMO Center
A. Lucchini
- 14.50 Multicenter study results of NAS and Nurse Sensitive Outcomes in 2017
K. Grillo Padilha
- 15.10 Pilot experiences with NAS in the CHU de Québec and IUCPQ
M.C. Gallani
- 15.30 Prospective study in 15 hospitals in Belgium
A. Bruyneel
- 15.50 Discussion
- 16.00 Break and Exhibition Visit

ECM - Modulo 12B

GOING ABOVE THERAPY IN THE ICU

Chairperson: M. Vergano

- 16.30 Communication in the ICU
L.B. Ware
- 16.50 Rounds at the bedside: we could do better
J.L. Vincent
- 17.10 Families and patients will never walk alone: tracheotomy in critically ill patients
P. Pelosi
- 17.30 Discussion

AMBER HALL 1

ECM - Modulo 11C

ARDS

Chairperson: M. Quintel

- 14.30 Dexamethasone in ARDS: a successful story
J. Villar
- 14.50 Steroids in ARDS: a skeptical approach
G. Grasselli
- 15.10 Steroids in pneumonia
A. Torres
- 15.30 Steroids and Vitamin C in ALI/ARDS: a word of wisdom
J.J. Marini
- 15.50 Discussion
- 16.00 Break and Exhibition Visit

ECM - Modulo 12C

RECRUITING THE LUNG

Chairperson: P. Rocco

- 16.30 Lung recruitment. If, when, how
N.D. Ferguson
- 16.50 Recruitment in ARDS: how to measure?
L. Brochard
- 17.10 Recruiting maneuvers during anesthesia: the good, the bad, the ugly!
P. Pelosi
- 17.30 Discussion

AMBER HALL 2

ECM - Modulo 11D

ANESTHESIA AND COGNITION

Chairperson: J. Wiener-Kronish

- 14.30 Anesthesiologist's guide to monitor the brain
H. Amirfarzan
- 14.50 Perioperative neurocognitive disorders and Alzheimer's disease
M. Berger
- 15.10 Intraoperative EEG monitoring and depth of sedation
H. Amirfarzan
- 15.30 Best practices for postoperative brain health and outcomes in older adults
M. Berger
- 15.50 Discussion
- 16.00 Break and Exhibition Visit

ECM - Modulo 12D

CONTROVERSIES IN GENERAL ANESTHESIA

Chairperson: F. Petrini

- 16.30 Quality and safety in the operating room
P.M. Mertes
- 16.50 Is deep neuromuscular block a standard of care?
M. Carron
- 17.10 Insights from i.v. morphine and hydromorphone pharmacokinetics
J. Wiener-Kronish
- 17.30 Discussion

AMBER HALL 3

ECM - Modulo 11E

WEANING FROM MECHANICAL VENTILATION: NEW ISSUES AND NEW SOLUTIONS? - PART 1

Chairperson: I. Telias

- 14.30 Where are we at with weaning? A snapshot from the WEAN SAFE study
T. Pham
- 14.50 Is P0.1 clinically useful in difficult weaning?
L. Brochard
- 15.10 Sedation-rehabilitation: a complex intervention in the ICU
J.M. Constantin
- 15.30 Role of patient-ventilator dyssynchrony
F. Mojoli
- 15.50 Discussion
- 16.00 Break and Exhibition Visit

ECM - Modulo 12E

WEANING FROM MECHANICAL VENTILATION: NEW ISSUES AND NEW SOLUTIONS? - PART 2

Chairperson: E. Spinelli

- 16.30 The role of pendelluft in weaning: any clinical relevance?
G. Bellani
- 16.50 Does mode of method matter?
J.J. Marini
- 17.10 Discussion

AMBER HALL 4

ECM - Modulo 11F

SMART TUTORIALS 11

- 14.30 Cardiocirculatory evaluation and management of the non-cardiac surgical patient
R. Fumagalli
- 15.00 Management of oliguria: a pragmatic approach
J. Kellum
- 15.30 Challenges in pre-hospital trauma management
C. Fontana
- 16.00 Break and Exhibition Visit

ECM - Modulo 12F

SMART TUTORIALS 12

- 16.30 How to improve patient-ventilator synchrony
L. Piquilloud
- 17.00 Recreational drugs: how do they affect anesthesia
C.A. Locatelli
- 17.30 Procedural sedation
M. Lamperti



Non Accredited Sessions

ALL TIMES STATED IN CET (Central European Time)

NON ACCREDITED SESSIONS

Lunch Sessions, Meet the Expert Sessions, Simulation Sessions and Technical Forums are NOT subjected to ECM/EACCME® accreditation.
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LANGUAGE: English or Italian, no simultaneous translation.

LINGUA: Inglese o Italiano, senza traduzione simultanea.



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Berlot G., Trieste (I)
Bernardi M., Bologna (I)
Bouhemad B., Dijon (F)
Brazzi L., Torino (I)

Caironi P., Torino (I)
Camporota L., London (UK)
Carron M., Padova (I)
Cecchetti C., Roma (I)
Chiumello D., Milano (I)
Cortese G., Torino (I)
Cosentini R., Bergamo (I)
Cotoia A., Foggia (I)

Dalfino L., Bari (I)
Donati A., Ancona (I)

Elisei D., Macerata (I)

Ferrer Roca R., Barcelona (E)

Foti G., Monza (I)
Fumagalli R., Milano (I)

Gattinoni L., Goettingen (D)
Girardis M., Modena (I)
Grasso S., Bari (I)
Grieco D.L., Roma
Guarracino F., Pisa (I)

Herpain A., Bruxelles (B)

Lucchini A., Monza (I)

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Mojoli F., Pavia (I)
Montenegro R., Roma (I)
Monti G., Milano (I)
Montrucchio G., Torino (I)
Mussa B., Torino (I)

Nierhaus A., Hamburg (D)
Nocci M., Siena (I)

Paternoster G., Potenza (I)

Pea F., Udine (I)

Pesenti A., Milano (I)

Pittiruti M., Roma (I)

Pugin J., Genève (CH)

Pulvirenti S., Novara (I)

Quintel M., Goettingen (D)

Rauseo M., Foggia (I)

Resta M., S. Donato Milanese (I)

Rezoagli E., Monza (I)

Romito F., Matera (I)

Ronco C., Vicenza (I)

Sard P., Milano (I)

Shankar-Hari M., London (UK)

Valenza F., Milano (I)

Viale P., Bologna (I)

Vincent J.L., Bruxelles (B)

Vismara S., Monza (I)

Zanierato M., Torino (I)

Access to Lunch Sessions is possible from the Sponsor's virtual booth and/or from the Lobby.
L'accesso alle Lunch Session è possibile dallo stand virtuale dell'Azienda Sponsor e/o dalla Lobby.

FRIDAY NOVEMBER 13

BROWN HALL 1

12.45 - 14.15
LUNCH SESSION



ENDOTOXIC SHOCK: POLYMYXIN B HEMOPERFUSION AS COMPLEMENTARY THERAPY

Supported by ESTOR

Chairpersons: R. Ferrer Roca, A. Pesenti

- 12.45 Endotoxic shock: the trigger, the host and role of targeted blood purification
M. Girardis
- 13.05 Early neutralization of endotoxin in the intraoperative setting
J. Pugin
- 13.25 Polymyxin B hemoperfusion in the general ICU: when and why
F. Romito
- 13.45 Precision therapy and sequential therapies: advanced strategies in sepsis-induced AKI
C. Ronco
- 14.05 Discussion

FRIDAY NOVEMBER 13

AMBER HALL 1

12.45 - 14.15
LUNCH SESSION



USE, ABUSE AND MISUSE OF NONINVASIVE VENTILATORY SUPPORT IN THE COVID-19 ERA

Supported by INTERSURGICAL

Chairperson: L. Brazzi

- 12.45 Which lung characteristics are we facing?
L. Gattinoni
- 13.05 When and how should we approach noninvasive ventilation?
G. Foti
- 13.25 CPAP in emergency
R. Cosentini
- 13.45 What clinical results have we achieved?
L. Camporota
- 14.05 Discussion

Access to Lunch Sessions is possible from the Sponsor's virtual booth and/or from the Lobby.
L'accesso alle Lunch Session è possibile dallo stand virtuale dell'Azienda Sponsor e/o dalla Lobby.

SATURDAY NOVEMBER 14

BROWN HALL 1

12.45 - 14.15
LUNCH SESSION



TACKLING SEPSIS-INDUCED IMMUNOSUPPRESSION

Supported by BIOTEST

Chairpersons: L. Brazzi, M. Girardis

- 12.45 Best practice for the use of IgM-enriched IgG in patients with sepsis
A. Nierhaus
- 13.05 Immunodysfunction in patients with sepsis
M. Shankar-Hari
- 13.25 Potential role of immunoglobulins in COVID-19 patients
L. Abrahão Hajjar
- 13.45 Effects of the timing of administration of IgM- and IgA-enriched intravenous polyclonal immunoglobulins on the outcome of septic shock patients
G. Berlot
- 14.05 Discussion

SUNDAY NOVEMBER 15

BROWN HALL 1

12.45 - 14.15
LUNCH SESSION



ALBUMIN IN 2020 AND BEYOND...

Supported by CSL BEHRING, GRIFOLS, KEDRION BIOPHARMA

Chairpersons: L. Gattinoni, M. Quintel

- 12.45 Albumin oxidation: physiological meaning
L. Gattinoni
- 13.05 Cirrhosis, the non-oncotic properties of albumin matter
M. Bernardi
- 13.25 Iso- vs. hyper-oncotic albumin-containing solutions
P. Caironi
- 13.45 Hypo-albuminemia as harmful factor: cause or effect?
J.L. Vincent
- 14.05 Discussion

Meet the Expert Sessions offer the opportunity of an informal and direct interaction between SMART participants and recognized Experts in selected topics. They will take place in the Meet the Expert Corner, a dedicated space accessible from both the Lobby and the Sponsor's virtual booth. Admission is free but limited to max 80 participants, on a first-come first-served basis.

Le Meet the Expert Session offrono la possibilità di un'interazione veloce e diretta con Esperti riconosciuti su alcuni temi di interesse. Si svolgono in uno spazio dedicato, il Meet the Expert Corner, accessibile dalla Lobby e dallo stand virtuale dell'Azienda Sponsor. Partecipazione a numero chiuso, max 80 partecipanti. Accesso libero fino ad esaurimento posti.

MEET THE EXPERT CORNER

FRIDAY NOVEMBER 13 | 11.00 - 12.00 CET

**EMPRESSIoNi: from theory to clinical practice**

EMPRESSIoNi: dalla teoria alla pratica clinica

EXPERT: **M. Resta**

Supported by AMOMED

MEET THE EXPERT CORNER

FRIDAY NOVEMBER 13 | 14.30 - 15.30 CET

**Hemodynamics at the bedside with the Pulse Contour Cardiac Output (PiCCO)**

Emodinamica al posto letto con il Pulse Contour Cardiac Output (PiCCO)

MODERATOR: **S. Grasso** | EXPERTS: **C. Cecchetti, R. Fumagalli**

Supported by GETINGE

MEET THE EXPERT CORNER

FRIDAY NOVEMBER 13 | 16.00 - 17.00 CET

**Different hemodynamic effects of inotropes and their clinical consequences**

Differenti effetti emodinamici degli inotropi e loro implicazioni cliniche

MODERATOR: **F. Guarracino** | EXPERT: **A. Herpain**

Supported by ORION PHARMA



meet the experts

MEET THE EXPERT CORNER

SATURDAY NOVEMBER 14 | 11.30 - 12.30 CET

**How to manage vHAP and VAP**

Come gestire la vHAP e la VAP

MODERATOR: **P. Viale** | EXPERTS: **L. Dalfino, F. Pea**

Supported by MSD

MEET THE EXPERT CORNER

SATURDAY NOVEMBER 14 | 13.00 - 14.00 CET

**BLOC LANDIO: β 1-selectivity in the clinical practice**BLOC LANDIO: la β 1-selettività nella pratica clinicaEXPERT: **G. Paternoster**

Supported by AMOMED



Simulation Sessions will take place in the Simulation Center, a dedicated space accessible from both the Lobby and the Sponsor's virtual booth. Admission is limited to max 80 participants with mandatory pre-registration. See page 51 for details.

Le Simulation Session si svolgono all'interno del Simulation Center accessibile dalla Lobby e dallo stand virtuale dell'Azienda Sponsor. La partecipazione è a numero chiuso, max 80 partecipanti, con pre-iscrizione obbligatoria. Dettagli a pagina 51.

SIMULATION CENTER

FRIDAY NOVEMBER 13

11.30 - 12.30 CET

1

Simulation Session 1

MECHANICAL VENTILATION

Supported by



SPEAKERS: F. Mojoli, E. Arisi

OPTIMIZATION OF PATIENT-VENTILATOR SYNCHRONY DURING ASSISTED VENTILATION

The purpose of this simulation scenario is to train attendees on how to optimize patient-ventilator synchrony during assisted ventilation. Different scenarios of patient-ventilator interaction will be simulated and their clinical implications will be discussed.

OTTIMIZZAZIONE DELLA SINCRONIZZAZIONE PAZIENTE-VENTILATORE IN VENTILAZIONE ASSISTITA

Lo scopo di questo scenario di simulazione è offrire ai partecipanti un training su come sia possibile ottimizzare la sincronizzazione paziente-ventilatore in ventilazione assistita. Saranno simulati diversi scenari di interazione paziente-ventilatore e ne saranno discusse le implicazioni cliniche.

SIMULATION CENTER

FRIDAY NOVEMBER 13

13.00 - 14.00 CET

2

Simulation Session 2

CLINICAL MONITORING

Supported by



SPEAKERS: G. Monti, M. Nocci

EARLY WARNING SCORE PROTOCOLS TO EFFICIENTLY IDENTIFY PATIENTS AT RISK

The purpose of this simulation scenario is to offer an overview of the potential benefits that the introduction of Early Warning Score protocols can bring in term of clinical patient outcomes and improved staff workflow. Rapid identification of patient deterioration can be difficult by monitoring single parameters because clinical staff is alerted only after important physiological changes. The Early Warning Score enables the healthcare professionals to quickly identify patients at risk and reduce adverse events in general ward.

PROTOCOLLI EARLY WARNING SCORE PER UNA EFFICIENTE IDENTIFICAZIONE DEI PAZIENTI A RISCHIO

Lo scopo di questo scenario di simulazione è fornire una visione generale dei potenziali vantaggi legati all'introduzione dei protocolli Early Warning Score in termini di miglioramento degli outcome clinici e del flusso di lavoro del personale sanitario. La rapida identificazione del deterioramento delle condizioni del paziente può essere difficile se basata sul monitoraggio di singoli parametri, perché lo staff clinico viene allertato solo dopo variazioni fisiologiche importanti. L'Early Warning Score permette ai clinici di identificare rapidamente i pazienti a rischio e di ridurre gli eventi avversi nei reparti di degenza ordinaria.

SIMULATION CENTER

FRIDAY NOVEMBER 13

14.30 - 15.30 CET

3

Simulation Session 3

ANESTHESIA

Supported by



SPEAKERS: M. Carron, G. Cortese

PERIOPERATIVE MANAGEMENT OF OBESE PATIENTS

The purpose of this scenario is to discuss the main problems of the perioperative management of obese patients. The topics of positioning on the operating table and airway management will be addressed with particular attention to different technologies ensuring a safe transition from spontaneous breathing to anesthesia (traditional laryngoscopy, fibrobronchoscopy, videolaryngoscopy). The topic of intraoperative management will then be addressed, focusing on monitoring techniques and healthcare targets useful to guarantee an opioid-sparing anesthesia management in line with the latest international recommendations. Finally, the methods of optimizing awakening from anesthesia and safe discharge from the operating block will be discussed, aiming at an early mobilization and adequate monitoring of the spontaneous respiratory function.

GESTIONE PERIOPERATORIA DEL PAZIENTE OBESO

Scopo di questo scenario è offrire ai partecipanti l'opportunità di confrontarsi con le principali problematiche della gestione perioperatoria del paziente obeso. Saranno illustrati il posizionamento sul tavolo operatorio e la gestione delle vie aeree, con particolare attenzione alle tecnologie che garantiscono un passaggio sicuro dal respiro spontaneo all'anestesia (laringoscopia tradizionale, fibrobroncosopia, videolaringoscopia). Si affronterà poi la gestione intraoperatoria, con particolare attenzione alle tecniche di monitoraggio ed ai target assistenziali utili a garantire una gestione anestesologica il più possibile opioid-sparing, in linea con le più recenti raccomandazioni internazionali. Verranno infine discusse le modalità di ottimizzazione del risveglio dall'anestesia e della dimissione sicura dal blocco operatorio, con l'obiettivo di garantire una mobilitazione precoce ed un monitoraggio adeguato della funzione respiratoria spontanea.

SIMULATION CENTER

FRIDAY NOVEMBER 13

15.45 - 16.45 CET

4

Simulation Session 4

MECHANICAL VENTILATION

Supported by



SPEAKERS: G. Bellani, E. Rezoagli

ADVANCED TOOLS TO ASSESS RESPIRATORY MECHANICS AND PATIENT-VENTILATOR INTERACTION

The purpose of this simulation scenario is to train attendees in the main parameters (numeric or derived from waveform observation), which allow monitoring of various aspects of a patient's ventilator interaction at the bedside, in different modes of assisted ventilation. Patients-ventilator synchrony and estimation of patient's effort will be explored and the most frequent abnormal findings will be simulated and their clinical implications will be discussed.

STRUMENTI AVANZATI PER LA VALUTAZIONE DELLA MECCANICA RESPIRATORIA E DELLA INTERAZIONE PAZIENTE-VENTILATORE

Lo scopo di questo scenario di simulazione è offrire ai partecipanti un training sui principali parametri (numerici o derivati dall'osservazione delle forme d'onda), che permettono il monitoraggio dei vari aspetti dell'interazione paziente-ventilatore al posto letto, in diverse modalità di ventilazione assistita. Saranno analizzate la sincronizzazione paziente-ventilatore e la stima dello sforzo respiratorio del paziente, saranno simulate le anomalie più frequentemente riscontrate nella pratica clinica e ne saranno discusse le implicazioni cliniche.

SIMULATION CENTER

SATURDAY NOVEMBER 14 | 10.00 - 11.00 CET

5

Supported by

Dräger



Simulation Session 5

MECHANICAL VENTILATION

SPEAKERS: G. Foti, E. Rezoagli

ALVEOLAR RECRUITMENT AND PEEP SETTING BASED ON RESPIRATORY MECHANICS

The purpose of this simulation scenario is to train attendees in the possible approaches to perform alveolar recruitment maneuvers and to titrate PEEP while taking into account the data derived from respiratory mechanics. The most relevant pathologic alterations of these parameters will be simulated and their clinical implications will be discussed.

RECLUTAMENTO ALVEOLARE E IMPOSTAZIONE DELLA PEEP IN BASE ALLA MECCANICA RESPIRATORIA

Lo scopo di questo scenario di simulazione è offrire ai partecipanti un training sui possibili approcci utilizzabili per realizzare manovre di reclutamento alveolare e per dosare la PEEP in base ai dati derivati dalle misure di meccanica respiratoria. Saranno simulate le alterazioni patologiche più rilevanti di questi parametri e ne saranno discusse le implicazioni cliniche

SIMULATION CENTER

SATURDAY NOVEMBER 14 | 12.45 - 13.45 CET

7

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Simulation Session 7

MECHANICAL VENTILATION

SPEAKERS: B. Bouhemad, D. Chiumello

IMPROVING ARDS MANAGEMENT BASED ON RESPIRATORY MECHANICS AND ULTRASOUND ASSESSMENT

The purpose of this simulation scenario is to discuss and train attendees on how the assessment of respiratory mechanics, mechanical power and lung-muscle ultrasound could optimize the management of ARDS patients. Different scenarios will be considered and their clinical implications discussed.

MIGLIORARE LA GESTIONE DELL'ARDS SULLA BASE DELLA MECCANICA RESPIRATORIA E DELLA VALUTAZIONE ECOGRAFICA

Lo scopo di questo scenario di simulazione è offrire ai partecipanti un'occasione di confronto e di training su come sia possibile ottimizzare la gestione dei pazienti con ARDS attraverso la valutazione della meccanica respiratoria, del mechanical power e dell'ecografia del polmone e dei muscoli respiratori. Saranno presi in considerazione diversi scenari e ne saranno discusse le implicazioni cliniche.

SIMULATION CENTER

SATURDAY NOVEMBER 14 | 15.30 - 16.30 CET

8

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MEDICAL

Simulation Session 8

MECHANICAL VENTILATION

SPEAKERS: G. Foti, E. Rezoagli

SETTING THE VENTILATOR DURING ASSISTED VENTILATION

The purpose of this simulation scenario is to train attendees on how to face the main challenges encountered when ventilating a patient with increased airway resistance, obstructive or restrictive disease, such as COPD, ARDS or lung fibrosis. These will include detection and measurement of increased airway resistance and reduced compliance.

IMPOSTAZIONE DEL VENTILATORE IN VENTILAZIONE ASSISTITA

Lo scopo di questo scenario di simulazione è offrire ai partecipanti un training su come affrontare le principali problematiche che si manifestano durante la ventilazione di un paziente con una aumentata resistenza delle vie aeree, una patologia ostruttiva o restrittiva, per esempio BPCO o ARDS o fibrosi polmonare. Tra le problematiche verranno considerate la rilevazione e la misura di una aumentata resistenza delle vie aeree e di una ridotta compliance.

SIMULATION CENTER

SUNDAY NOVEMBER 15 | 10.00 - 11.00 CET

9

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Simulation Session 9

ANESTHESIA

SPEAKERS: M. Carron, G. Cortese

PERIOPERATIVE MANAGEMENT OF OBESE PATIENTS

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GESTIONE PERIOPERATORIA DEL PAZIENTE OBESO

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SIMULATION CENTER

SUNDAY NOVEMBER 15 | 11.30 - 12.30 CET

10

Supported by



Simulation Session 10

SPEAKER: M. Pittiruti

ULTRASOUND

ULTRASONOGRAPHIC VASCULAR ACCESS

The purpose of this simulation scenario is to train attendees on how to choose the best vascular access device, how to check the pertinent vascular anatomy of the patient, and how to place a vascular device by ultrasound guide, with particular emphasis on peripherally inserted central venous catheters (PICCs). Through a structured and rational approach, participants will learn how to identify abnormal states and acquire the essential skills for an effective insertion of last-generation vascular access devices.

ACCESSO VASCOLARE CON TECNICA ECOGRAFICA

Lo scopo di questo scenario di simulazione è offrire ai partecipanti un training su come scegliere il miglior dispositivo di accesso vascolare, come controllare l'anatomia vascolare pertinente nei pazienti, e come posizionare un dispositivo di accesso vascolare sotto guida ecografica, in particolare i cateteri venosi centrali ad inserzione periferica (PICC). Attraverso un approccio strutturato e razionale, i partecipanti impareranno come identificare anomalie anatomiche ed acquisiranno le competenze fondamentali per un efficace posizionamento dei dispositivi di accesso vascolare di ultima generazione.

Technical Forums will take place in the Technical Forum Corner, a dedicated space accessible from both the Lobby and the Sponsor's virtual booth. Admission is free but limited to max 80 participants, on a first-come first-served basis.

I Technical Forum si svolgeranno in uno spazio dedicato, il Technical Forum Corner, accessibile dalla Lobby e dallo stand virtuale dell'Azienda Sponsor. Partecipazione a numero chiuso, max 80 partecipanti. Accesso libero fino ad esaurimento posti.

TECHNICAL FORUM CORNER

FRIDAY NOVEMBER 13 | 11.00 - 12.00 CET

SPEAKERS: **L. Brazzi, M. Zanierato**

TELECONSULTATION IN CRITICAL CARE: SCIENCE, NOT SCIENCE FICTION

In many clinical settings an immediate expert consultation is essential to identify the most appropriate diagnostic strategy or approach. Remote presence solutions enable clinicians to activate a real-time teleconsultation, with simultaneous patient assessment and diagnostic imaging. In the context of a particularly complex procedure such as donation after circulatory death with the use of extracorporeal circulatory support to preserve organs for transplantation, we will see how this opportunity is not only strategic but almost essential.

TELECONSULTO IN AREA CRITICA: SCIENZA, NON FANTASCIENZA

Molti sono gli ambiti in cui un consulto immediato con un esperto è indispensabile per identificare la strategia o l'approccio diagnostico più corretto. Le soluzioni di presenza remota consentono di eseguire una televisita, in tempo reale, con la contemporanea valutazione paziente e diagnostica per immagini. Nell'ambito di una procedura di particolare complessità come la donazione a cuore fermo con impiego del supporto circolatorio extracorporeo per la preservazione degli organi a scopo di trapianto, vedremo come tale opportunità sia non solo strategica ma quasi irrinunciabile.

TECHNICAL FORUM CORNER

FRIDAY NOVEMBER 13 | 13.00 - 14.00 CET

Supported by

GE Healthcare

SPEAKERS: **G. Bellani, D.L. Grieco**

CUSTOMIZATION OF RESPIRATORY SUPPORT IN ARDS

Beside measurement of lung volumes can be a useful tool to optimize parameters of mechanical ventilation in the critically ill patient. The purpose of this Technical Forum is to present the rationale and discuss clinical applications of this technique.

INDIVIDUALIZZAZIONE DEL SUPPORTO RESPIRATORIO NELL'ARDS

La misura dei volumi polmonari, realizzata al posto letto, è uno strumento utile per ottimizzare i parametri della ventilazione meccanica nel paziente critico. Lo scopo di questo Technical Forum è illustrare il razionale ed esaminare le diverse applicazioni cliniche di questa tecnica.

TECHNICAL FORUM CORNER

FRIDAY NOVEMBER 13 | 14.30 - 15.30 CET

SPEAKERS: **R. Montenegro, P. Sard, S. Vismara**

PrisMax: WHAT IF CRRT TRAINING WAS EASIER AND MORE ACCESSIBLE?

Intensive care nurses face the need to cope with very sophisticated devices which sometimes they don't use in their daily practice, as well as to manage clinical emergencies requiring the use of equipment they have never operated before, and this must be implemented as fast as possible. The purpose of this Technical Forum is to introduce the PrisMax Educational Portal, an innovative portal designed to provide healthcare professionals with an easy and effective training on the complex system of extracorporeal therapies.

PrisMax: E SE IL TRAINING SULLA CRRT FOSSE PIÙ SEMPLICE E PIÙ ACCESSIBILE?

Gli infermieri di terapia intensiva si trovano a far fronte alla gestione di apparecchiature molto complesse e talvolta non utilizzate quotidianamente, così come a gestire emergenze che implicano l'utilizzo di macchinari mai utilizzati, da implementare nel minor tempo possibile. Lo scopo di questo Technical Forum è di presentare il Portale Educazionale PrisMax, un portale innovativo per la formazione semplice ed efficace degli operatori sanitari sul complesso sistema delle terapie extracorporee.

TECHNICAL FORUM CORNER

FRIDAY NOVEMBER 13 | 16.00 - 17.00 CET

SPEAKERS: **A. Donati, M. Girardis, G. Montrucchio**

PROGNOSIS AND THERAPY OPTIMIZATION IN THE CRITICALLY ILL PATIENT IN THE COVID-19 ERA: ARE WE CLOSE TO A BREAKTHROUGH?

Adrenomedullin (ADM) is a peptide whose levels have been found high in several pathological conditions. A laboratory method is now available, enabling the measurement of one of its fragments (proADM) whose levels seem to be associated with prognosis in the critically ill, so that it is supposed to have a role as an early marker in septic shock and potentially also in the COVID-19 patient. What clinical role could be played by this biomarker and what answers can it provide? What role for a combined use of proADM and other biomarkers? This will be discussed with experts of the topics who have tested its applicability in the clinical practice.

PROGNOSI E OTTIMIZZAZIONE DELLA TERAPIA NEL PAZIENTE CRITICO IN EPOCA COVID-19: SIAMO VICINI AD UNA SVOLTA?

L'adrenomedullina (ADM) è un peptide i cui livelli sono elevati in diversi quadri patologici. È oggi disponibile la misura di un suo frammento (proADM) i cui livelli appaiono correlati con la prognosi del paziente critico tanto da farne ipotizzare un ruolo come marcatore precoce nello shock settico, e potenzialmente anche nel paziente COVID-19. Quale potrà essere il ruolo clinico per questo biomarker e quali risposte potrà fornire? Quale ruolo per un uso combinato con altri biomarcatori? Se ne parla con esperti del settore che ne hanno provato l'applicabilità nella pratica clinica.

TECHNICAL FORUM CORNER

SATURDAY NOVEMBER 14

11.00 - 12.00 CET

Supported by

SPEAKERS: **D. Elisei, B. Mussa****PICC IN THE ICU: AN EFFECTIVE AND SAFE SOLUTION!**

Starting from a literature review, this Technical Forum aims at highlighting the impact of PICC in the management of the patient clinical course, even during the current pandemic. The role of PICC in the ICU will be discussed pointing out its effectiveness and safety for both patients and clinical staff thanks to the new supporting technologies.

PICC IN TERAPIA INTENSIVA: SOLUZIONE EFFICACE E SICURA!

Partendo da una review della letteratura, il Technical Forum ha lo scopo di evidenziare il grande impatto che il PICC ha avuto nella gestione dei percorsi di malattia dei pazienti, anche durante il periodo pandemico. Verrà esposto il ruolo del PICC in terapia intensiva sottolineandone l'efficacia e la sicurezza per i pazienti e gli operatori, alla luce delle nuove tecnologie a supporto.

PICC in the ICU: a review of current literature

PICC in terapia intensiva: review della letteratura attuale

B. Mussa

Vascular access in the critically ill: indication and role of PICC in the ICU

Accesso vascolare nel paziente critico: indicazione e ruolo del PICC in terapia intensiva

D. Elisei

TECHNICAL FORUM CORNER

SATURDAY NOVEMBER 14

13.00 - 14.00 CET

Supported by

SPEAKERS: **A. Lucchini, S. Pulvirenti****EARLY MOBILIZATION OF THE CRITICALLY ILL PATIENT**

Mobilization of critically ill patients represents one of the greatest challenges for ICU medical and nursing staff. Although its importance has been underlined by many clinical studies, full applicability of early mobilization programs is difficult to implement, especially in the Covid-19 era. The purpose of this Technical Forum is to focus on how new electrical muscle stimulation systems can be used in the ICU for the prevention of venous thrombosis (DVT) and the implementation of early mobilization programs for critically ill patients.

MOBILIZZAZIONE PRECOCE DEL PAZIENTE CRITICO

La mobilitazione del paziente critico rappresenta una delle maggiori sfide per il personale medico ed infermieristico in terapia intensiva. Sebbene la sua importanza si stia sottolineando da numerosi studi, la piena applicabilità di programmi di mobilitazione precoce, soprattutto nell'era Covid-19, risulta di difficile attuazione. Lo scopo di questo Technical Forum è evidenziare come nuovi sistemi di elettrostimolazione muscolare possano essere utilizzati in terapia intensiva per la prevenzione della trombosi venosa (DVT) e per l'implementazione di programmi di mobilitazione precoce del paziente critico.

TECHNICAL FORUM CORNER

SATURDAY NOVEMBER 14

16.00 - 17.00 CET

Supported by

MODERATOR: **F. Valenza**SPEAKERS: **A. Cotoia, A. Messina, F. Valenza****PERIOPERATIVE HYPOTENSION: RISKS AND SOLUTIONS**

The purpose of this Technical Forum is to introduce the new technologies of hemodynamic monitoring developed with the help of Artificial Intelligence, which allow us to predict and prevent hypotension, thus considerably reducing its risks.

IPOTENSIONE PERIOPERATORIA: RISCHI E SOLUZIONI

Lo scopo di questo Technical Forum è introdurre le nuove metodiche di monitoraggio emodinamico sviluppate con l'ausilio dell'Intelligenza Artificiale, che ci permettono di prevedere e prevenire l'ipotensione, riducendone considerevolmente i rischi.

16.00 Hypotension in critical care: new strategies

Ipotensione in area critica: nuove strategie

F. Valenza

16.15 New horizons in GDT: from prediction to prevention

Nuovi orizzonti in GDT: dalla predizione alla prevenzione

A. Messina

16.30 Ospedali Riuniti di Foggia experience with new parameteres predictive of hypotension in general surgery

Esperienza Ospedali Riuniti di Foggia in chirurgia generale con nuovi parametri predittivi di ipotensione

A. Cotoia

16.45 Discussion

Supported by



SPEAKERS: **G. Bellani, M. Rauseo**



CLINICAL EXPERIENCES WITH EIT MONITORING

The purpose of this Technical Forum is to present and discuss some examples from clinical practice in which electrical impedance tomography has been used to guide mechanical ventilation setting and therapy. The most important data provided by this method, their interpretation and limits, the limits of the technique and its principal fields of application will also be discussed.

ESPERIENZE CLINICHE NEL MONITORAGGIO CON EIT

Nel corso del Technical Forum verranno presentati e discussi diversi esempi derivanti dalla pratica clinica in cui è stata utilizzata la tomografia a impedenza elettrica per guidare l'impostazione della ventilazione meccanica e della terapia. Verranno quindi discusse le principali informazioni derivabili tramite la metodica, l'interpretazione e le limitazioni delle stesse ed i campi di applicazione principali.

Supported by



SPEAKERS: **L. Gattinoni, M. Maggioreini**



**MINI INVASIVE EXTRACORPOREAL CO₂ REMOVAL:
FROM THEORY TO PRACTICE**

The purpose of this Technical Forum is to analyze the potential clinical use of mini invasive extracorporeal CO₂ removal support (LF-ECCO₂-R). Starting from the analysis of concepts of respiratory pathophysiology, we will discuss the rationale and the possibilities that a mini invasive extracorporeal CO₂ removal system can provide to clinicians in the management of the patient's respiratory support, with the aim of maintaining the best ventilatory setting and preventing ventilator-induced lung injury (VILI) in given clinical conditions.

RIMOZIONE EXTRACORPOREA DI CO₂ MINI-INVASIVA: DALLA TEORIA ALLA PRATICA

Lo scopo di questo Technical Forum è analizzare le potenzialità di utilizzo in clinica del supporto di rimozione extracorporea di CO₂ mini-invasivo (LF-ECCO₂-R). Partendo dall'analisi dei concetti di fisiopatologia respiratoria, saranno analizzati il razionale e le potenzialità che un sistema di rimozione extracorporea di CO₂ mini-invasivo può offrire al clinico nella gestione del supporto ventilatorio di un paziente, allo scopo di preservare il migliore setting ventilatorio e prevenire il danno indotto dal ventilatore (VILI) in determinate condizioni cliniche.



Abstracts

ALL TIMES STATED IN CET (Central European Time)

ABSTRACTS SMART 2020

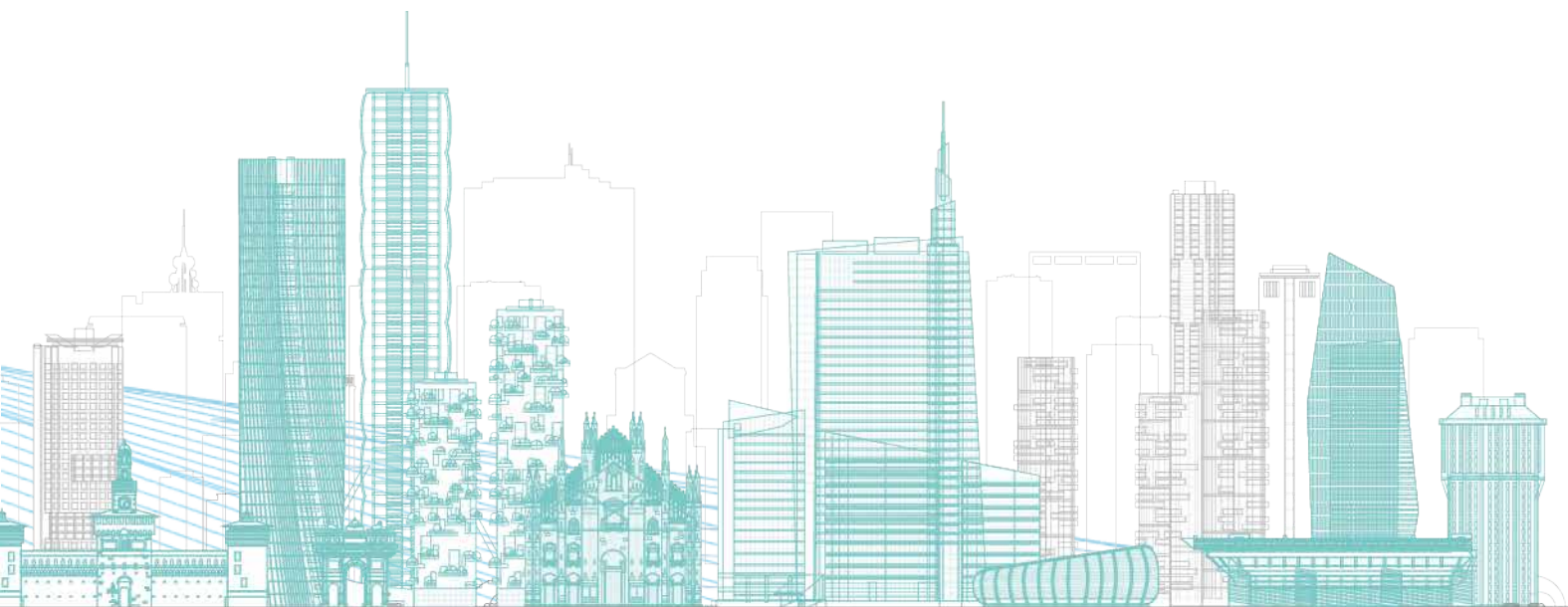
Abstracts will be uploaded to the SMART online platform **www.e-smart2020.org** in the E-Poster Area section and presented in the E-Poster Corner corresponding to the assigned group.

Abstracts (pdf files) will be available in the assigned E-Poster Corner throughout the 3 meeting days (November 13 to 15, 2020) and subsequently on-demand from November 21, 2020 to March 21, 2021.

ABSTRACT SMART 2020

*Gli abstract saranno caricati sulla piattaforma **www.e-smart2020.org** nella sezione E-Poster Area e presentati nell'E-Poster Corner corrispondente al gruppo di riferimento assegnato.*

Gli abstract (file pdf) saranno visionabili all'interno dell'E-Poster Corner assegnato per tutta la durata del convegno (13, 14, 15 Novembre 2020), e successivamente on-demand dal 21 Novembre 2020 al 21 Marzo 2021.



E-Poster Corner 1

GROUP 1

- P1 Tension pneumocephalus post dacryocystorhinostomy, complicated by NSTEMI and DKA, ICU management challenge**
A. Amber Sabeen, B. Kulsoom, L. Heera
- P2 A successful emergency department resuscitative thoracotomy (EDRT) in an abdominal blunt trauma with cardiac arrest**
M. Erba, L. Guiotto, S. Redaelli, G. Vertemati, L.A.M. Fumagalli, M. Tavola
- P3 COVID-19: management of a young super-obese patient with ARDS in an OR converted into ICU**
G. Salve, F. Epis, S. Pregnotato, G. Ticozzelli, F. Riccardi, B. Mascia, S. Bonaiti, M. Pizzulli, L. Fontanelli, R. Veronesi, S. Mongodi, F. Mojoli
- P4 Sodium measurement in severely burned, critically ill patients: point-of-care or central laboratory?**
S.M. Bragagnolo, M. Favarato, H. Gay, R. Garbieri, P. Brioschi, G. Casella, T. Langer, R. Fumagalli
- P5 Availability of aerosol under different inspiratory dual limb tubing arrangements during mechanical ventilation of a simulated adult patient**
E. Fernández Fernández, M. Mac Giolla Eain, M. Joyce, R. MacLoughlin
- P6 COVID-19 and thrombotic or thromboembolic disease in ICU**
R. Discepoli, G. Romito, G. Tavazzi, L. Civardi, L. Caneva, S. Mongodi, F. Mojoli
- P7 Surgical unit converted into an intensive care unit during Northern Italy COVID-19 outbreak**
S. Pregnotato, F. Epis, G. Salve, G. Ticozzelli, M. Fuardo, G. Negri, N. Peroni, A. Carletti, R. Veronesi, S. Mongodi, F. Mojoli

E-Poster Corner 2

GROUP 2

- P8 Continuous SAP Block vs ESP block for mitral valve surgery: preliminary data of an observational cohort study**
P. Capuano, A. Toscano, D. Ferrero, F.G. Canavosio, A.C. Trompeo, L. Brazzi
- P9 Magnesium sulphate with associated transversus abdominal plane (TAP) block as a blended anesthetic opioid-free technique in laparoscopic and robotic-assisted major abdominal surgery. Preliminary findings of a randomized trial**
D. Rampulla, L. La Brocca, G. Candela
- P10 Postoperative pulmonary complications after major surgery: a large observational study from electronic health record data**
M. Savi, M. Greco, G. Angelotti, P.F. Caruso, M. Montorsi, M. Cecconi
- P11 Preoperative clinic in a Pediatric Hospital: who benefits the most?**
L. Lima, G. Bertolizio
- P12 Indirect calorimetry performed during noninvasive ventilation. Preliminary results of the "CALO-NIV" trial**
G. Spolidoro, V. D'Oria, C. Villa, C. Agostoni, T. Marchesi, S. Scalia Catenacci, L. Ughi, C. Montani, G. Chidini, T. Langer, E. Calderini
- P13 Persistence of typical COVID-19 symptoms in ICU survivors one month after hospital discharge**
G. Salve, A. Colombo, A. Stella, S. Bonaiti, S. Pregnotato, V. Dammassa, M.A. Forte, C. Sonnati, M. Moscariello, M. Pozzi, E. Arisi, G. Tavazzi, F. Mojoli, S. Mongodi
- P14 Lung ultrasound to detect ventilator-associated pneumonia in COVID-19 patients**
F. Daverio, M. Cavagnino, G.M. Siano, A. Stella, A. Colombo, E. Pariani, C. Villa, G. Bettini, S. Bonaiti, S. Pregnotato, G. Salve, A. Orlando, E. Arisi, M. Pozzi, G. Tavazzi, F. Mojoli, S. Mongodi

E-Poster Corner 3

GROUP 3

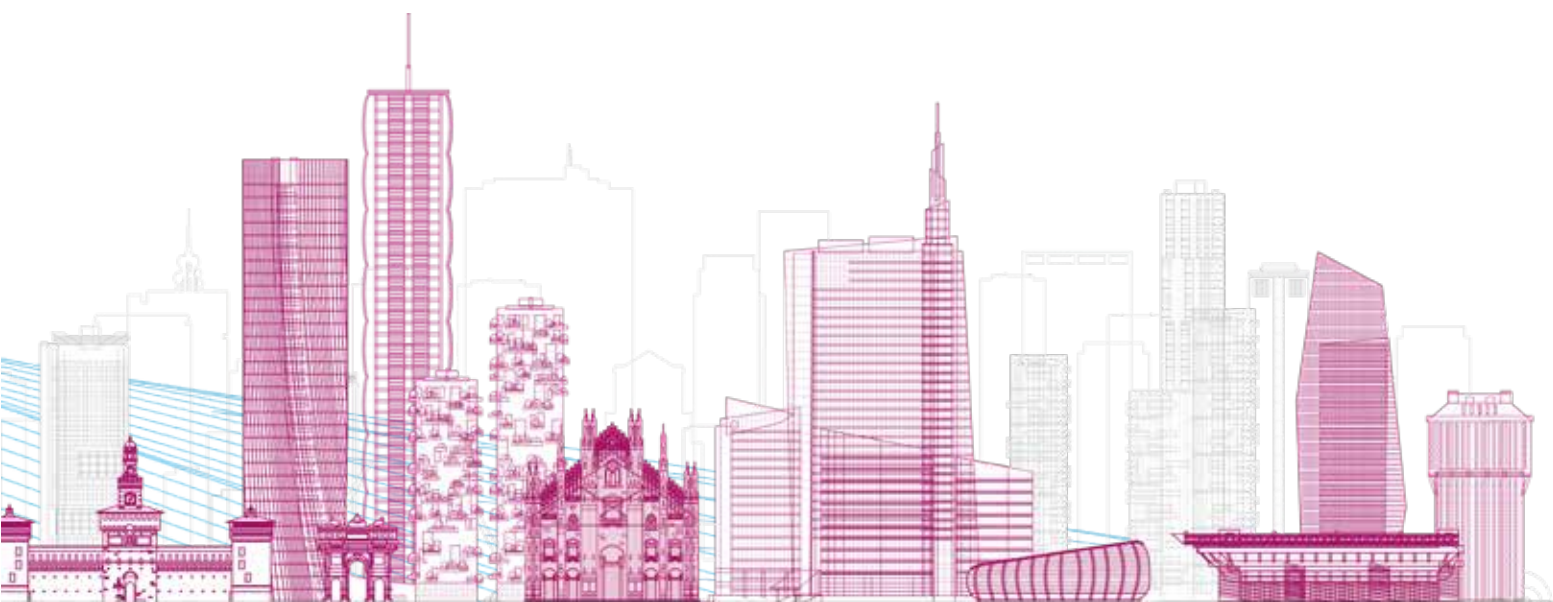
- P15 Development of Machine Learning models to predict RT-PCR results for Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) in patients with influenza-like symptoms using only basic clinical data**
M. Favarato, H. Gay, R. Garberi, F. Villa, A. Zeduri, S. Bragagnolo, A. Molteni, M. Buscema, E. Grossi, R. Giudici, G. Bassi, T. Langer, R. Fumagalli
- P16 Predicting the outcome of Coronavirus Disease 2019 (COVID-19) patients: a Machine Learning Systems (MLS) approach**
R. Garberi, M. Favarato, H. Gay, S. Bragagnolo, F. Villa, A.L. Zeduri, T. Langer, R. Fumagalli
- P17 Immune characteristics of critically-ill patients with COVID-19 pneumonia developing secondary bacterial infections**
M. Tosi, E. Biagioni, S. Busani, I. Coloretti, S. Venturelli, E. Munari, M. Girardis
- P18 Pleural pressure levels and sodium retention/distribution**
S. Gattarello, I. Pasticci, F. Collino, F. Vassalli, F. Vasques, F. Romitti, M. Busana, M. Palumbo, L. Gattinoni
- P19 Lung ultrasound score after 7 days of ICU treatment but not at ICU admission predicts COVID-19 patients' outcome**
A. Stella, A. Colombo, E. Pariani, C. Villa, G. Bettini, S. Bonaiti, F. Daverio, M. Cavagnino, G.M. Siano, S. Pregnotato, G. Salve, A. Orlando, E. Arisi, M. Pozzi, G. Tavazzi, F. Mojoli, S. Mongodi
- P20 Changes in lung physiology during progressive lowering of respiratory rate in healthy pigs undergoing ECMO**
E. Spinelli, G. Colussi, G. Dal Santo, I. Marongiu, E. Scotti, E. Garbelli, R. Maia, A. Mazzucco, D. Dondossola, A. Caccioppola, M. Leone, V. Figgiaconi, C. Diotti, G. Lopez, S. Todaro, M. Di Felicianantonio, I. Protti, E. Cattaneo, S. Gatti, A. Zanella, T. Mauri
- P21 High prevalence of Post-Traumatic Stress Disorder in COVID-19 ICU survivors**
G. Salve, A. Stella, A. Colombo, S. Bonaiti, S. Pregnotato, V. Dammassa, M.A. Forte, C. Sonnati, M. Moscariello, A. Orlando, F. Ferrari, G. Tavazzi, F. Mojoli, S. Mongodi

E-Poster Corner 4

GROUP 4

- P22 The impact of ventilation-perfusion inequality in COVID-19: a computational model**
M. Busana, M. Cressoni, L. Giosa, L. Di Giroamo, A. Gasperetti, A. Martinelli, A. Sonzogni, L. Lorini, M.M. Palumbo, F. Romitti, S. Gattarello, P. Herrmann, K. Meissner, M. Quintel, L. Gattinoni
- P23 Viral reactivation in COVID-19 patients admitted to ICU: an observational retrospective study**
I. Coloretti, E. Biagioni, M. Girardis
- P24 Association between respiratory distress time to mechanical ventilation and outcome in COVID-19 patients**
S. Busani, M. Sarti, E. Biagioni, R. Tonelli, E. Clini, G. Guaraldi, C. Mussini, M. Meschiari, V.M. Ranieri, M. Girardis
- P25 Barotrauma in COVID-19 patients on mechanically ventilation: results from a multicentric survey**
S. Spano, A. Protti, M. Greco, P.F. Caruso, A. Santini, G. Grasselli, A. Pesenti, M. Cecconi
- P26 Lung recruitability and prone position in late COVID-19 pneumonia**
M. Palumbo, M. Busana, S. Rossi, L. Caspani, N. Sverzellati, L. Malchiodi, F. Romitti, M. Bonifazi, S. Gattarello, K. Meissner, M. Quintel, L. Gattinoni
- P27 Three-months functional outcome in COVID-19 critical care patients: preliminary results from a follow-up study**
S. Gatti, A. Bronco, D. Ferlicca, F. Mauri, M. Pozzi, A. Lucchini, R. Rona, N. Squillace, G. Bellani, P. Bonfanti, G. Foti
- P28 Pro-Adrenomedullin in COVID-19 patients undergoing vv-ECMO, may it be useful?**
D. Lombardo, A. Giaccone, F. Palmesino, G. Montrucchio, G. Sales, U. Simonetti, V. Fanelli, F. Rumbolo, G. Mengozzi, L. Brazzi

General Information



31° SMART - VIRTUAL MEETING

The 31° SMART - Virtual Meeting will be held on an online platform www.e-smart2020.org where all key features of the traditional SMART meeting are represented, including structure, scope and philosophy, architecture and ambience.

Pre-registration is needed to participate.

EDUCATIONAL ACCREDITATION

ECM accreditation. The 31° SMART - Virtual Meeting has been accredited by the Italian Ministry of Health. See page 52 for details.

EACCME® accreditation. The 31° SMART - Virtual Meeting has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®). See page 53 for details.

Which countries recognise EACCME credits?
Please visit: <https://eaccme.uems.eu/Agreements.aspx>

COMPLIANCE WITH CODES OF ETHICS

The Organizing Secretariat guarantees full compliance with the rules of Medtech Europe, Confindustria Dispositivi Medici and Farindustria Codes of Ethical Business Practice in the management of any kind of sponsorship and interaction between industry and healthcare professionals.

MEETING TIMES

All meeting times are CET (Central European Time).

OFFICIAL LANGUAGES

31° SMART - VIRTUAL MEETING
English, no simultaneous translation.

LUNCH SESSIONS, MEET THE EXPERT SESSIONS, SIMULATION SESSIONS, TECHNICAL FORUMS
English or Italian, no simultaneous translation.

POSTER PRESENTATION
English, no simultaneous translation.

MINIMUM SYSTEM REQUIREMENTS FOR PARTICIPATING IN THE VIRTUAL MEETING

Hardware
- PC with audio (PC, Mac, Tablet, Smartphone)
- ADSL/4G Mobile internet connection

Software
-Internet Browser, upgrade to the last 2 years
Recommended browser: Google Chrome

ORGANIZING SECRETARIAT

Start Promotion Srl - Provider ECM 622
Via Mauro Macchi, 50 - 20124 Milano (Italy)
Tel. +39 02 67 07 13 83 | Fax +39 02 67 07 22 94
info@startpromotion.it | www.startpromotion.it
info@e-smart2020.org | www.e-smart2020.org

31° SMART - VIRTUAL AMBIENCE



Participants will be welcomed in the Lobby (see picture above) which is intended to be the crossroads of all the 31° SMART - Virtual Meeting activities. In the Lobby, you can register for the meeting, upload your abstract, ask for organizational or technical info through a chat interface, view the Scientific Program and the list of Speakers.

During the meeting, from the Lobby you can move to both the Scientific Area and the Exhibition Area, as well as the Simulation Center and corners dedicated to Technical Forums and Meet the Expert Sessions. The Scientific Area hosts 6 meeting halls for simultaneous sessions, including one reserved for SMART Tutorials. Real-time voice or chat interaction as well as access to the voting system (if applicable) will be possible in all the meeting halls except the Tutorials' one. From the Lobby you can also access the E-Poster Area and the Meet the Friends Space which is exclusively reserved to Faculty members for small meetings.



All scientific sessions will be held in the Meeting Halls accessible from the Lobby.

Access to the industry-sponsored Lunch Sessions is possible from the Lobby and/or from the Sponsor's virtual booth.

PRESS REGISTRATION

Accredited members of the press are welcome to the 31° SMART - Virtual Meeting. Online pre-registration **before November 6, 2020** is needed to be admitted to the virtual meeting. During the pre-registration procedure, press officers will be required to upload a document proving their status.

BEST ABSTRACT AWARD



During the 31° SMART - Virtual Meeting, the best three abstracts presented will be awarded.

All participants who present an abstract at the meeting, are automatically eligible for the award. Selections will be based on the following two main criteria: quality and scientific relevance, originality of the research.

Award winners will be notified by email. The names of winners together with abstract titles will be disclosed on **Friday November 13 in the E-Poster Area.**

In order to receive the award, winners are requested to be registered to the 31° SMART - Virtual Meeting.

All prizes are dedicated to Dr. Mario Veronesi and kindly offered by **INTERSURGICAL**.

PRIZES

1st PRIZE: Award Certificate, 1 registration voucher for the next SMART Meeting, monetary award of € 1000.00

2nd PRIZE: Award Certificate, 1 registration voucher for the next SMART Meeting, monetary award of € 500.00

3rd PRIZE: Award Certificate, 1 registration voucher for the next SMART Meeting, monetary award of € 300.00

Participants are invited to submit their scientific papers on anesthesia and/or intensive care topics by completing the online procedure available at www.e-smart2020.org and/or www.smartonweb.org (see details below).

Please read the instructions below before submitting your abstract. Abstract submission is possible through the online procedure only. **Abstracts sent by fax or mail will not be accepted.** At least one of the Authors is required to be a registered participant to the 31° SMART Virtual Meeting.

All abstracts received will be evaluated by the Scientific Committee. Accepted papers will be published at www.smartonweb.org.

Poster presentations will be held in English. No simultaneous translation will be provided.

Contacts with the Authors will be by email only. Please verify that your email address has been correctly typewritten during the registration procedure and don't forget to check your email account regularly.

ABSTRACT SUBMISSION GUIDELINES

Abstracts must be submitted by completing the online procedure available at www.e-smart2020.org and/or www.smartonweb.org. You will be directed to the 31° SMART virtual ambience where you will find a dedicated section "Upload Abstract" in the Lobby. Please fill in all required entry fields and upload your file in PDF format (vertical PDF file, see details below).

After a correct submission, a confirmation message will be automatically sent to your email address. Please DON'T try to submit the same abstract more than once. Should you find errors after submission, please refer to the Organizing Secretariat (info@e-smart2020.org). Abstracts must comply with the following guidelines:

Abstract format: Vertical PDF file

Language: English

Structure: Title, Authors, Affiliations, Text

Title: Poster title

Authors: Indicate Authors in the same order as that selected for print. First initial and complete last name. Please underline the name of the presenting Author (e.g.: M. Smith*, D.A. Collins°, T. Brown*).

Affiliations: Assign each institution a symbol and use the same symbol to identify the Author, as appropriate (e.g.: * Dept of Critical Care Medicine, University Hospital, Freiburg D; °Dept. of Intensive Care, St. John Hospital, London UK).

Text (first draft): max 300 words + 1 image or 1 table

Presentation format: Poster only

GUIDELINES FOR ACCEPTED ABSTRACTS

After confirmation of acceptance, Authors will be requested to upload the final version of their posters including all figures and charts (vertical PDF file), together with a recorded video including the image of the final poster (vertical PDF) and its audio presentation (max 10 min). To create the video it is possible to use any program that can be converted to mp4. These materials will be made available in the E-Poster Area throughout the 31° SMART Virtual Meeting.

POSTER PRESENTATION

All accepted posters will be divided into groups based on the topic and displayed in the E-Poster Area.

Abstracts (pdf files) will be available online throughout the 3 meeting days in the assigned corners. A video presentation of each poster will be scheduled during the virtual meeting in the assigned corner ("view presentation" section). All details on day/time/corner assigned to each poster will be communicated later.

ONLINE REGISTRATION

Online pre-registration is mandatory and must be submitted **before November 6, 2020**. After November 6, 2020 registration is not possible anymore (no onsite registration available).

Please submit your registration for 31° SMART - Virtual Meeting, Simulation Sessions, Meet the Expert Sessions, Technical Forums at www.e-smart2020.org and/or www.smartonweb.org. Read the instructions carefully before starting registration.

REGISTRATION FEES

	BEFORE SEPTEMBER 25	AFTER SEPTEMBER 25
ESICM - SIAARTI - AARO - ESPNIC MEMBERS	€ 50.00	€ 100.00
NON-MEMBERS	€ 100.00	€ 150.00
VETERINARIANS & PHARMACISTS	€ 50.00	€ 100.00
NURSES*	€ 30.00	€ 50.00
RESIDENTS/STUDENTS*	Free entrance, with mandatory pre-registration	

Legal VAT is included.

* Pre-registration must be submitted online at www.e-smart2020.org and/or www.smartonweb.org. During the pre-registration procedure, Nurses and Residents/Students will be required to upload a document proving their status. .

REGISTRATION FEES INCLUDE: attendance of the scientific sessions, attendance certificate, ECM/ECMEC® credits (provided all criteria are met), **on-demand contents available from November 21, 2020 to March 21, 2021**.

Access to the on-demand scientific contents after the meeting is strictly reserved to pre-registered participants.

SPONSORS' STAFF REGISTRATION: Each Sponsoring Company will receive **no. 2 free name accesses** enabling access to the Scientific Area of the meeting, with mandatory pre-registration **before November 6, 2020**. Additional accesses for staff members can be ordered at **€ 50,00/each** VAT included, with mandatory pre-registration **before November 6, 2020**. No ECM/ECMEC® credits will be provided to registered staff members.

MEET THE EXPERT SESSIONS

Admission to MEET THE EXPERT SESSIONS is free but limited to 80 participants, with mandatory pre-registration. Registrations will be accepted on a first-come first-served basis, according to availability. Online pre-registrations must be submitted **before November 6, 2020**.

TECHNICAL FORUMS

Admission to TECHNICAL FORUMS is free but limited to 80 participants, with mandatory pre-registration. Registrations will be accepted on a first-come first-served basis, according to availability. Online pre-registrations must be submitted **before November 6, 2020**.

SIMULATION SESSIONS

Admission to the SIMULATION SESSIONS is limited to 80 participants, with mandatory pre-registration. Registrations will be accepted on a first-come first-served basis, depending on availability. Online pre-registration must be submitted **before November 6, 2020**.

SESSIONS	FEE
1) OPTIMIZATION OF PATIENT-VENTILATOR SYNCHRONY DURING ASSISTED VENTILATION	€ 15.00
2) EARLY WARNING SCORE PROTOCOLS TO EFFICIENTLY IDENTIFY PATIENTS AT RISK	€ 15.00
3) PERIOPERATIVE MANAGEMENT OF OBESE PATIENTS	€ 15.00
4) ADVANCED TOOLS TO ASSESS RESPIRATORY MECHANICS AND PATIENT-VENTILATOR ...	€ 15.00
5) ALVEOLAR RECRUITMENT AND PEEP SETTING BASED ON RESPIRATORY MECHANICS	€ 15.00
7) IMPROVING ARDS MANAGEMENT BASED ON RESPIRATORY MECHANICS ...	€ 15.00
8) SETTING THE VENTILATOR DURING ASSISTED VENTILATION	€ 15.00
9) PERIOPERATIVE MANAGEMENT OF OBESE PATIENTS	€ 15.00
10) ULTRASONOGRAPHIC VASCULAR ACCESS	€ 15.00

Legal VAT is included.

IN CASE OF IMPOSSIBILITY TO PARTICIPATE IN SIMULATION SESSIONS, MEET THE EXPERT SESSIONS AND TECHNICAL FORUMS, REGISTRANTS ARE KINDLY REQUESTED TO COMMUNICATE THEIR CANCELLATION TO THE ORGANIZING SECRETARIAT **BEFORE NOVEMBER 6, 2020**.

INSTRUCTIONS FOR PAYMENT

Payment of the registration fees can be made as follows:

- **Bank transfer** (free of charge for the beneficiary)
To: START PROMOTION S.r.l.
Bank: Banca Intesa Sanpaolo Spa
IBAN: IT21X0306911310000027269163
SWIFT/BIC CODE: BCITITMM
As payment description please enter: **31° SMART - Virtual Meeting, first & family name of the Registrant**. If payment includes also one or more Simulation Sessions, please specify the number/s assigned to the selected Session/s.
- **Credit Card** (Visa, Mastercard, Maestro, Moneta)

CANCELLATION POLICY

A 50% refund of the registration fee will be paid **ONLY** for cancellations notified in writing **before September 30, 2020**. No refund is due for later cancellations.

INVOICING

The invoice will be sent to the address entered during registration at www.e-smart2020.org and/or www.smartonweb.org. Receipt of the invoice will confirm registration.

INFORMAZIONI ECM

Il 31° SMART - Virtual Meeting è stato accreditato ECM presso il Ministero della Salute.

PROVIDER:
Start Promotion Srl - Provider standard ID622

ID EVENTO:
299034

OBIETTIVO NAZIONALE DI RIFERIMENTO:
2 - Linee guida - protocolli - procedure

TIPOLOGIA:
FAD Sincrona - corsi in diretta su piattaforma multimediale dedicata (aula virtuale, webinar)

PIATTAFORMA FAD:
<https://www.fadstartpromotion.it/e-smart2020>

DESTINATARI FORMAZIONE:

- **Medico Chirurgo** (Discipline: Anestesia e Rianimazione; Cardiocirurgia; Cardiologia; Chirurgia Generale; Chirurgia Toracica; Malattie dell'apparato Respiratorio; Malattie Infettive; Medicina e Chirurgia di Accettazione e di Urgenza; Medicina Interna; Nefrologia; Neurochirurgia)
- **Farmacista** (Disciplina: Farmacia Ospedaliera)
- **Veterinario** (Disciplina: Sanità Animale)
- **Infermiere**
- **Infermiere Pediatrico**

CREDITI ASSEGNATI:
N. 27 Crediti ECM per l'anno 2020

REGOLAMENTO

L'Evento Virtuale si svolgerà secondo il modello "FAD SINCRONA". Oltre al prezioso contributo degli esperti, ampio spazio sarà dedicato all'interattività tra docenti e discenti.

L'Evento Virtuale sarà trasmesso in diretta nei giorni:
- **13 Novembre** dalle **ore 9.00** alle **ore 18.00** (CET)
- **14 Novembre** dalle **ore 9.00** alle **ore 18.00** (CET)
- **15 Novembre** dalle **ore 9.00** alle **ore 18.00** (CET)

Il percorso ECM è strutturato in moduli per un totale di **12** (vedi tabella a pag. 54).

Fruizione Moduli

Ogni discente potrà costruire un proprio percorso formativo personalizzato. Unico obbligo è la permanenza nella medesima aula virtuale per tutta la durata del singolo modulo (es: 1A 09.00/11.00 + 2B 11.30/12.30 - 3C 14.30/16.00 - 4D 16.30/18.00 ecc...). Non è possibile la fruizione frammentata di più moduli in contemporanea (es: 1A 09.00/10.00 + B1 10.00/11.00).

Solo per i partecipanti che abbiano garantito la presenza al 90% del tempo totale dei 12 moduli, l'Evento Virtuale sarà disponibile nella propria area riservata della piattaforma FAD per 72 ore successive al termine della diretta, termine entro cui i partecipanti potranno rivedere esclusivamente i moduli ai quali hanno realmente partecipato durante le giornate di diretta streaming (non avranno accesso agli altri moduli) e dovranno completare il questionario di valutazione dell'apprendimento, indispensabile per poter acquisire i crediti ECM.

Al termine della giornata del 15 Novembre ogni partecipante che avrà maturato il diritto all'accesso alla piattaforma FAD, riceverà una comunicazione tramite e-mail contenente le credenziali per poter accedere alla piattaforma e completare il percorso FAD.

L'Evento Virtuale darà diritto a n. **27 crediti ECM** per l'anno 2020. Per avere diritto ai crediti formativi ECM è necessario:

- appartenere ad una delle discipline per le quali è stato accreditato l'evento;
- garantire la propria presenza al 90% del tempo totale delle sessioni scientifiche accreditate;
- compilare il questionario di valutazione dell'apprendimento entro massimo 72 ore dal termine dell'Evento Virtuale;
- rispondere correttamente ad almeno il 75% delle domande del questionario.

ATTENZIONE: sarà possibile compilare il questionario solo fino alle ore 23.59 del 18 Novembre 2020. Si ricorda che il partecipante ha a disposizione 5 tentativi per superare il test di valutazione dell'apprendimento. Dopo 5 tentativi non sarà più possibile accedere al questionario e conseguire i crediti ECM.

Termine dell'evento FAD: **18/11/2020**

Dopo tale data non sarà più possibile fruire dell'evento formativo e conseguire i crediti ECM. La generazione dell'Attestato ECM è subordinata al superamento del questionario di apprendimento ed alla compilazione della scheda di valutazione dell'evento FAD.

EACCME® ACCREDITATION

The **31° SMART - Smart Meeting Anesthesia Resuscitation intensive care, Milan, Italy, 13/11/2020 - 15/11/2020** has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with **18** European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME® credit to AMA credit can be found at www.ama-assn.org/education/earn-credit-participation-international-activities.

Live educational activities, occurring outside of Canada, recognised by the UEMS EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

EACCME® credits

Each participant can only receive the number of credits he/she is entitled to according to his/her actual participation at the event once he/she has completed the Evaluation Form.

Please find below the breakdown of ECMEC®s per day:

13.11.2020 - 6.00

14.11.2020 - 6.00

15.11.2020 - 6.00

How to receive your EACCME® certificate and EACCME® credits after the meeting

After the event (before November 17) those entitled to claim EACCME® credits will receive an Evaluation Form to be completed and returned to the Organizing Secretariat before November 22. Once completed and returned the Evaluation form in due terms, participants will receive the EACCME® certificate detailing the number of credits assigned, based on the actual attendance.

Declaration of conflicts of interest

All Members of the SMART Scientific and Organizing Committee as well as Faculty Members have provided written declarations of potential or actual conflicts of interest. To view these, please click <https://www.smartonweb.org/coi-form-e-smart2020/>

FRUIZIONE MODULI: **Ogni discente potrà costruire un proprio percorso formativo personalizzato. Unico obbligo è la permanenza nella medesima aula virtuale per tutta la durata del Modulo.**

MODULO, DATA E ORARIO		BROWN HALL 1A	BROWN HALL 2B	AMBER HALL 1C	AMBER HALL 2D	AMBER HALL 3E	AMBER HALL 4F
MODULO 1 ■ 13/11/2020 ■ 9.00 - 11.00	1	MODULO 1A HOT TOPICS IN CARDIAC INTENSIVE CARE	MODULO 1B TAILORING THERAPEUTIC STRATEGIES IN ACUTE BRAIN INJURY GUIDED BY...	MODULO 1C SEPSIS CODE FROM ED TO THE ICU	MODULO 1D HOT TOPICS IN PEDIATRIC ANESTHESIA	MODULO 1E ENERGY AND FEEDING ROUTE	MODULO 1F SMART TUTORIALS 1
MODULO 2 ■ 13/11/2020 ■ 11.30 - 12.30	2	MODULO 2A HOT TOPICS IN CARDIOTHORACIC ANESTHESIA	MODULO 2B TRAUMATIC BRAIN INJURY 2020: CENTER-TBI	MODULO 2C INNOVATION IN THORACIC ANESTHESIA	MODULO 2D POINT-OF-CARE ULTRASOUND IN PICU AND NICU	MODULO 2E METABOLIC SUPPORT: WHAT AND HOW MUCH	MODULO 2F SMART TUTORIALS 2
MODULO 3 ■ 13/11/2020 ■ 14.30 - 16.00	3	MODULO 3A VENOARTERIAL ECMO	MODULO 3B ISCHEMIC STROKE	MODULO 3C ARTERIAL PRESSURE MONITORING: WHERE AND HOW?	MODULO 3D EXTRACORPOREAL THERAPIES IN SEPSIS	MODULO 3E ULTRASOUND IS MY BEDSIDE TOOL FOR... PART 1	MODULO 3F SMART TUTORIALS 3
MODULO 4 ■ 13/11/2020 ■ 16.30 - 18.00	4	MODULO 4A IMPROVING ORGAN AVAILABILITY FOR TRANSPLANT	MODULO 4B NOVEL ASPECTS OF ANALGOSEDATION IN THE ICU	MODULO 4C WHAT'S NEW IN PAIN THERAPY	MODULO 4D ACUTE RENAL FAILURE	MODULO 4E ULTRASOUND IS MY BEDSIDE TOOL FOR... PART 2	MODULO 4F SMART TUTORIALS 4
MODULO 5 ■ 14/11/2020 ■ 9.00 - 11.00	5	MODULO 5A ADJUNCTIVE THERAPIES IN COVID-19 CRITICALLY ILL PATIENTS	MODULO 5B ARTIFICIAL INTELLIGENCE AND BIG DATA	MODULO 5C DIFFICULT INFECTIONS IN DIFFICULT PATIENTS	MODULO 5D ELECTROLYTES IN THE ICU: ANYTHING NEW?	MODULO 5E COVID-19 BEYOND RESPIRATORY FAILURE	MODULO 5F SMART TUTORIALS 5
MODULO 6 ■ 14/11/2020 ■ 11.30 - 12.30	6	MODULO 6A HOT TOPICS IN THE ICU	MODULO 6B ABDOMINAL ISSUES IN THE ICU PATIENT	MODULO 6C MECHANICAL VENTILATION AND VILI	MODULO 6D NASAL HIGH FLOW OXYGEN IN THE CLINICAL ARENA: PATIENT CASES AND NEW INDICATIONS	-	MODULO 6F SMART TUTORIALS 6
MODULO 7 ■ 14/11/2020 ■ 14.30 - 16.00	7	MODULO 7A ESOPHAGEAL PRESSURE AND PEEP TITRATION	MODULO 7B INTERACTIVE SESSION CHALLENGING SCENARIOS	MODULO 7C HYPOTHERMIA VS. NORMOTHERMIA AFTER CARDIAC ARREST: WHAT IS THE TARGET IN TTM? NEW & OLD EVIDENCES	MODULO 7D NEW STRATEGIES FOR DIFFICULT BUGS	MODULO 7E EXTRACORPOREAL LIFE SUPPORT: NEW EVIDENCES - PART 1	MODULO 7F SMART TUTORIALS 7
MODULO 8 ■ 14/11/2020 ■ 16.30 - 18.00	8	MODULO 8A SEPSIS SCIENCE: PEARLS AND PITFALLS	MODULO 8B AIRWAY MANAGEMENT IN CRITICALLY ILL PATIENTS	MODULO 8C IMPROVING CARDIOPULMONARY RESUSCITATION	MODULO 8D UNSOLVED QUESTIONS IN TRAUMA	MODULO 8E EXTRACORPOREAL LIFE SUPPORT: NEW EVIDENCES - PART 2	MODULO 8F PRO-CON DEBATE THE BEST RESPIRATORY TREATMENT FOR COVID-19 PNEUMONIA
MODULO 9 ■ 15/11/2020 ■ 9.00 - 11.00	9	MODULO 9A UPDATE ON MDR/XDR MICROORGANISMS: PREVENTION, FAST MICROBIOLOGY AND MANAGEMENT	MODULO 9B SMART NURSING INFECTION CONTROL IN THE ICU DURING COVID-19 PANDEMIC	MODULO 9C SEPSIS BEYOND THE FIRST HOUR	MODULO 9D REGIONAL ANESTHESIA IN THE DAILY CLINICAL PRACTICE	MODULO 9E PERIOPERATIVE MANAGEMENT OF VENTILATION	MODULO 9F SMART TUTORIALS 9
MODULO 10 ■ 15/11/2020 ■ 11.30 - 12.30	10	MODULO 10A ACUTE RESPIRATORY DISTRESS SYNDROME OR SIMPLY ARF?	MODULO 10B SMART NURSING HUMANIZING THE INTENSIVE CARE UNIT	MODULO 10C LOOKING OUTSIDE THE USUAL BOX: NON ISCHEMIC CAUSES OF CARDIOGENIC SHOCK	MODULO 10D FASCIA PLANE BLOCKS: FACT OR FICTION?	MODULO 10E NONINVASIVE VENTILATION	MODULO 10F SMART TUTORIALS 10
MODULO 11 ■ 15/11/2020 ■ 14.30 - 16.00	11	MODULO 11A ACID BASE/ELECTROLYTES	MODULO 11B SMART NURSING NURSING WORKLOAD IN THE ICU	MODULO 11C ARDS	MODULO 11D ANESTHESIA AND COGNITION	MODULO 11E WEANING FROM MECHANICAL VENTILATION: NEW ISSUES AND NEW SOLUTIONS? - PART 1	MODULO 11F SMART TUTORIALS 11
MODULO 12 ■ 15/11/2020 ■ 16.30 - 18.00	12	MODULO 12A COAGULOPATHY IN THE CRITICALLY ILL	MODULO 12B GOING ABOVE THERAPY IN THE ICU	MODULO 12C RECRUITING THE LUNG	MODULO 12D CONTROVERSIES IN GENERAL ANESTHESIA	MODULO 12E WEANING FROM MECHANICAL VENTILATION: NEW ISSUES AND NEW SOLUTIONS? - PART 2	MODULO 12F SMART TUTORIALS 12

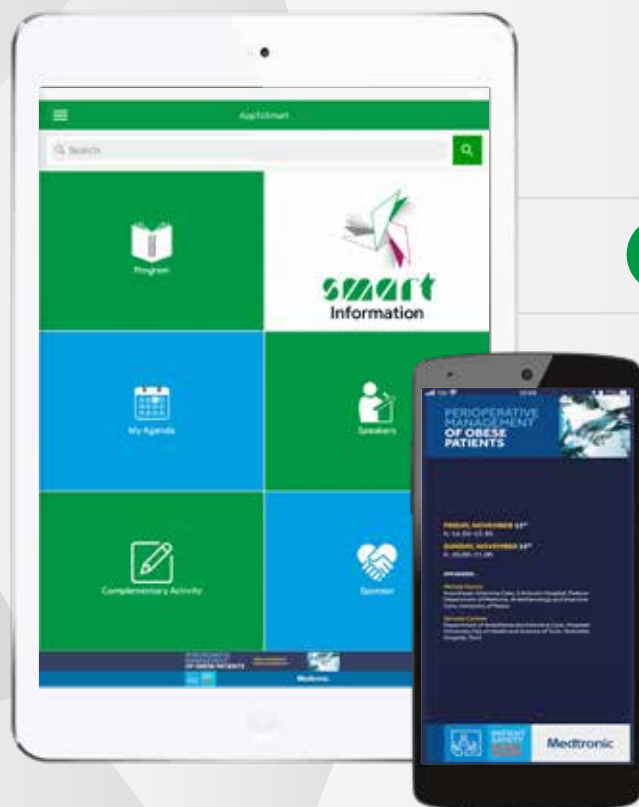
APP TO S.M.A.R.T.

THE SMART MEETING AT YOUR FINGERTIPS

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*Interazione in tempo reale, sistema di votazione e tutte le informazioni
sempre a portata di mano!*

Thanks to MEDTRONIC for its contribution to APP TO S.M.A.R.T.



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www.smartonweb.org

www.e-smart2020.org

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