



Milan | May 24-26, 2023

## First Announcement





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#### **SMART SCIENTIFIC BOARD**

M. Antonelli, A. Braschi, L. Brazzi, L. Camporota,  
G. Citerio, G. Conti, L. Gattinoni, M. Girardis,  
A. Pesenti, M. Quintel, F. Raimondi, M. Senturk

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#### **SMART ORGANIZING SECRETARIAT**

**Start Promotion Srl**  
Via Mauro Macchi, 50 - 20124 Milano - Italy  
**Ph.:** +39 02 67071383 | **Fax:** +39 02 67072294  
**Email:** [info@startpromotion.it](mailto:info@startpromotion.it)  
**Website:** [www.startpromotion.it](http://www.startpromotion.it) | [www.smartonweb.org](http://www.smartonweb.org)

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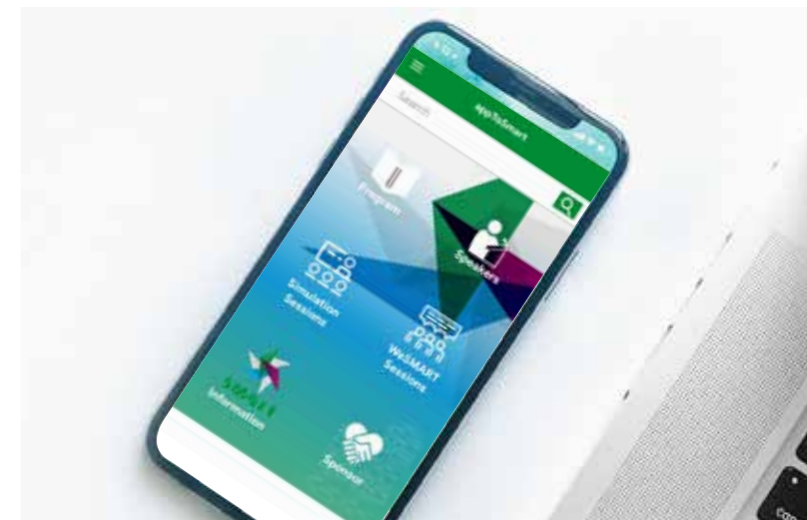
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# APP TO SMART

the SMART meeting at your fingertips

App available for iPhone and Android enabling real time interaction, access to the voting system and all SMART info at a glance.





## SMART Exhibition Area

Crossroad of contacts, beating heart of the meeting

### WeSmart Space

Given the success obtained in the latest Edition, also for 2023 two WeSmart spaces will be made available to Companies for the organization of any kind of complementary activities.

### Smart Social Lounge

All SMART participants will have free access to an open relax lounge in the Exhibition Area with internet point, wifi connection and free coffee point.

### Simulation Center

To satisfy the growing interest in simulation sessions, the space dedicated to this educational activity has been doubled with a new transparent room located at the entrance of the Exhibition Area.

### Meet the Expert Point

The Exhibition Area will be enriched with an open lounge space, designed to host informal discussions with recognized experts on topics of particular interest.

### Register now!

Online pre-registrations at [www.smartonweb.org](http://www.smartonweb.org)  
Deadline: **May 10, 2023**

Early registration with reduced fees  
Deadline: **March 30, 2023**

### Call for Abstract

Online abstract submission at [www.smartonweb.org](http://www.smartonweb.org)  
Deadline: **March 30, 2023**

### Best Abstract Award

The best three abstracts presented at the meeting will be awarded.

Details at [www.smartonweb.org](http://www.smartonweb.org)



# SMART Exhibition Area

An evolving space becoming more and more attractive over time



**FLUIDS AND ELECTROLYTES**

- Hyponatremia: when and how to correct it
- Hyperchloremia: when and how to correct it
- Saline, ringer and balanced solutions: when the choice is mandatory
- Fluid infusion and acidosis: is it really important?
- My patient has septic shock: which and how much fluids should I give?
- Severe diabetic ketoacidosis: pathophysiology and initial management
- Excessive sodium intake in critically ill patients: identifying the problem
- Fluid management in ICU patients with severe acute pancreatitis: pathophysiology and practical tips

**ACID-BASE AND BLOOD GAS ANALYSIS**

- The blood gas analysis output report: useful and useless values
- Base excess and SID excess: any difference?
- Electrolytic control in hemofiltration and hemodialysis
- VILI and fluid/electrolytes unbalance
- Anion Gap or Strong Ion Gap? A call for acid-base bilingualism
- Blood gas analysis: here are my secrets
- Acute and chronic respiratory acid-base disorders: easy to differentiate?
- Carboxyhemoglobin and methemoglobin measurement: clinical meaning and use
- Unmeasured ions: clinical identification and relevance
- Acid-base effects of continuous renal replacement therapy
- Base Excess: uses and misuses
- Collateral use of acid-base knowledge: improving CO<sub>2</sub> removal
- Blood osmolarity and osmolar equilibrium: does it matter?

**SETTING PEEP**

- Lung hysteresis to set PEEP in ARDS
- Electrical Impedance Tomography
- Minimize power
- Coping with abdominal pressure
- Guided by transpulmonary pressure
- Proning to minimize PEEP

**LUNG RECRUITMENT**

- How to recruit the lung?
- Should we measure the recruitment potential?
- PEEP and lung recruitment
- Ventilatory modes to maintain recruitment
- Should we really maximize recruitment? If not, how much should we recruit the lung?

**MEASURING LUNG RECRUITABILITY IN ARDS**

- Quantitative CT scan
- Lung morphology
- Pressure-volume curve
- Recruitment to inflation ratio
- Tidal lung hysteresis

**FROM NONINVASIVE RESPIRATORY SUPPORT TO CONTROLLED INVASIVE MECHANICAL VENTILATION**

- When to move from HFNO to CPAP to NIV to intubation?
- How to minimize the risk of intubation in the hypoxemic patient
- Lung US to predict failure of noninvasive support of the hypoxemic patient
- Neuromuscular blocking agents



### ARDS: WHAT IS THAT?

- Do we need a new definition?
- Should we lump everything into AHRF?
- Should we split it into subphenotypes?
- What's the difference between pneumonia and ARDS?
- Viral infections
- Pneumonia and ARDS

### MECHANICAL VENTILATION IN ARDS

- APRV Pro
- APRV Contra
- APRV is like inverted ratio ventilation

### PHARMACOLOGICAL THERAPY OF ARDS

- Stem cells
- Steroids
- Do pharmacological therapy have any future for ARDS?

### ECMO

- Extubation in ECMO
- How to select PEEP
- How much flow do we need in ECMO for ARDS?
- VVECMO for COVID-19 (Target emulation trial of the impact of VVECMO in COVID-19 ARDS, prone positioning, MV settings and monitoring...)
- ECCO<sub>2</sub>R for moderate-to-severe ARDS
- Should we widen the indications for ECMO?

### WEANING FROM MECHANICAL VENTILATION

- What's new in diaphragm assessment
- Physiology of respiratory drive
- Automation of the weaning process
- Ultrasound approach to weaning
- Preventing extubation failure with noninvasive support
- Results of the WEAN SAFE study
- Weaning patients in ICU according their pathology: a new paradigm!



### VENTILATOR INDUCED LUNG INJURY

- How to minimize ventilator induced lung injury?
- Ventilation Induced Diaphragm Dysfunction (VIDD): update in 2023
- Impact of mechanical ventilation on the diaphragm / respiratory muscles

### RESPIRATORY FAILURE

- Should we use automation to improve patient-ventilator interaction?
- Lung ultrasound to predict failure of noninvasive support of the hypoxemic patient
- Point-Of-Care-Ultrasound training: where we are and where we have to go
- Should we trust in compliance when setting the ventilator?

### LUNG ULTRASOUND 2.0: THE QUANTITATIVE APPROACH

- Switching from qualitative to quantitative lung ultrasound
- Quantitative lung ultrasound in the adult ICU patient
- Quantitative lung ultrasound in the pediatric ICU patient
- Quantitative lung ultrasound in the Emergency Department
- Quantitative lung ultrasound in the surgical patient

### CARDIOGENIC SHOCK

- Epidemiology
- Pathophysiology
- Treatment

### MULTIORGAN EVALUATION OF HYPOPERFUSION AND CONGESTION

- Brain and heart
- Lung
- Visceral district





### ENHANCED RECOVERY AFTER SURGERY: THE DEVIL IS IN THE DETAIL

- Perioperative medicine and ERAS: current challenges and future directions
- Prehabilitation: recovery begins before surgery
- Postoperative delirium, a preventable complication that can impair surgical recovery
- What is the current role of postoperative monitoring on surgical wards to enhance surgical recovery?

### HOW TO IMPLEMENT AN ENHANCED RECOVERY AFTER SURGERY PROGRAM FOR MAJOR ABDOMINAL SURGERY: BARRIERS AND FACILITATORS

- How to build a “Prehabilitation Center”: from ideas to action
- Surgeons have a key role
- Nurses: leading actors in the ERAS programs

### PERSONALIZED ANESTHESIA: TECHNOLOGY AS WINDOW TO PHYSIOLOGY

- Depth of anesthesia monitor: from EEG raw traces to Density Spectral Array (DSA)
- Cerebral oxygenation in major surgery: the O3 technology
- Combining brain and hemodynamic monitoring: two sides of the same coin?

### FOCUS ON PEDIATRIC TRAUMA

- How to organize a Pediatric Trauma Center
- Head trauma management in children
- Spinal trauma in the pediatric patient
- Thoracic trauma in children



### WHAT'S NEW IN PEDIATRIC ARDS

- Neonatal ARDS: the Montreaux definition
- Role for surfactant in infants with pARDS
- ECMO in pediatric patients

### HOT TOPICS IN PEDIATRIC ANESTHESIA

- Fascial blocks, central blocks: new indications, new perspectives
- Safety in non-operating room anesthesia
- Intraoperative ventilation in pediatric patients
- It's time to explore lateral position

### TREATING TBI IN 2023

- Managing old and fragile TBI: medical and ethical challenges
- Better phenotyping of the patient
- Controlling intracranial volumes with medical therapy
- Escalating to third tier therapies: is it worth?

### STROKE: ANESTHESIA AND ICU CHALLENGES

- Defining a system of care: the Lombardia network
- Anesthesia challenges during thrombectomy
- ICU management
- Surgical options

### DELIRIUM

- Update in the identification
- Pharmacological treatment
- The importance of the environment
- Nursing a delirious patient

### THE INFLAMMATED BRAIN

- Meningitis in ICU
- Infectious encephalitis
- Non infectious encephalitis
- Neuro COVID-19



### MONITORING THE BRAIN WITHOUT INVASIVENESS

- Automated pupillometry
- Ultrasound
- qEEG
- NIRS

### FIRST HOUR OF SEPSIS MANAGEMENT IN 2023

- How to identify infection and sepsis
- Source control: quick but not aggressive
- Empiric antibiotics in difficult microorganisms
- Fluid target: less is more?
- Early vasopressor

### HOW TO TREAT CRITICALLY ILL PATIENTS WITH GRAM-NEGATIVE MDR: FROM GUIDELINES TO CLINICAL PRACTICE

- Indications from guidelines
- Role of fast microbiology
- Opportunity from new antibiotics
- Infection control and AMS: win-win strategy
- Translating all clinical practice: case discussion

### SEVERE COMMUNITY-ACQUIRED PNEUMONIA FUNDAMENTAL ELEMENTS

- Slow and fast microbiological diagnosis
- Antibiotics and antivirals
- Steroids: to whom and when
- How to approach worsening patients
- Role of respiratory support



### HOW TO MANAGE PERSISTING INFLAMMATION IN ICU

- Evaluating and treating the immune system
- The role of endothelium
- Colonization and secondary infections
- Blood purification for organ support
- Source control is the issue

### INFECTIONS AND SEPSIS IN SPECIFIC POPULATIONS

- Sepsis in immunosuppressed patients
- Sepsis in surgical patient
- Sepsis in end-stage liver disease
- Sepsis in children

### BACK TO BASICS

- What does dysregulated immune response mean?
- Organ crosstalk in sepsis
- Appropriate use of antibiotics: dose and patient
- Heterogeneity: clinical subphenotypes in sepsis
- From macro to micro circulation in sepsis
- Energetic failure in septic shock

### DISCUSSION WITH EXPERTS IN SEPSIS

- Tell me why I should spare carbapenems
- Tell me why I should use biomarkers
- Tell me why I should measure cardiac output
- Tell me why I should use vasopressin
- Tell me why I should use beta-blockers
- Tell me why I should use inotropic drugs
- Tell me why I should use blood purification
- Tell me why I should measure immune response
- Tell me why I should consider empirical fungal therapy

**BASIC PHYSIOLOGY**

- Bedside respiratory physiology
- Bedside cardiocirculatory physiology
- Understanding a gas analysis: from numbers to the respiratory and cardiocirculatory status
- Understanding an acid-base balance

**SETTING THE VENTILATOR**

- Setting and monitoring the ventilation for the difficult-to-ventilate patient
- Respiratory mechanics
- Measuring esophageal and driving pressure
- High Flow Nasal Cannula: indications and techniques
- How to improve patient-ventilator synchrony
- Capnography and capnometry
- Nebulized drug delivery in intensive care patients
- Weaning from mechanical ventilation

**CARDIO - CIRCULATORY**

- Echo-monitoring of the cardiac function and hemodynamics
- Fluid management according to etiology
- Cardiac output measurement techniques
- Cardiocirculatory drugs in the critically ill
- Cardiogenic shock in ICU
- Diagnosis and treatment of RV failure

**RENAL FUNCTION**

- Renal physiology and mechanisms of AKI
- Management of oliguria
- CRRT

**INFECTIONS**

- Sepsis: pathophysiology and how to suspect
- Source control
- Managing sepsis and septic shock
- Optimal use of antibiotics in the critically ill

**NEUROLOGY**

- Diagnosis and management of delirium
- Noninvasive monitoring of the brain function
- Management of brain injury
- Post-resuscitation care of cardiac arrest
- Pupillometry
- How to look at the CT scan
- qEEG in intensive care
- Managing acute neuromuscular pathologies

**NUTRITION AND FLUIDS**

- Energy requirements
- Nutritional strategy in the critically ill
- Fluids and electrolytes balance
- Albumin administration

**ULTRASOUND**

- Echography head to toe; usefulness in anesthesia and critical care: upper body
- Echography head to toe; usefulness in anesthesia and critical care: lower body
- Lung and diaphragm
- Cardiac arrest: a POCUS approach

**COMMON PROBLEMS IN ICU**

- Vascular access
- Sedation and analgesia in ICU
- Patient blood management in intensive care
- Managing the organ donor patient
- Talking with relatives

**ANESTHESIA**

- ERAS in abdominal surgery
- ERAS in thoracic surgery
- Difficult intubation between guidelines and clinical practice
- Preoxygenation and intubation in patients at risk
- Preoperative evaluation of the cardiac patient undergoing non-cardiac surgery
- Non-cardiac anesthesia in cardiac patient
- Anesthesia in OSAS patient
- Monitoring and reversing NMBA

### FORTHCOMING

- ACUTE KIDNEY INJURY
- AIRWAY MANAGEMENT
- ALBUMIN
- CARDIOTHORACIC & VASCULAR ANESTHESIA
- EMERGENCY
- FUNGAL INFECTIONS
- MECHANICAL VENTILATION
- NUTRITION
- ORGAN DONATION
- REGIONAL ANESTHESIA
- TRAUMA
  
- SMART NURSING

## GENERAL INFORMATION

### MEETING VENUE

Allianz MiCo - South Wing



GATE 2 ENTRANCE: Viale Eginardo

GATE 16 ENTRANCE: Via Gattamelata

20149 Milano | Website: [www.micomilano.it](http://www.micomilano.it)



### OFFICIAL LANGUAGES

**Smart Meeting**

English, no simultaneous translation.

**Oral Presentations and Posters**

English, no simultaneous translation.

**Complementary Activities**

English or Italian, no simultaneous translation.

### ORGANIZING SECRETARIAT

**Start Promotion Srl**

Via Mauro Macchi, 50 - 20124 Milano - Italy

Ph.: +39 02 67071383 | Fax: +39 02 67072294

Email: [info@startpromotion.it](mailto:info@startpromotion.it)

Website: [www.startpromotion.it](http://www.startpromotion.it) | [www.smartonweb.org](http://www.smartonweb.org)



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