



**e-smart**  
SMART MEETING ANESTHESIA RESUSCITATION INTENSIVE CARE

MAY 24-28  
**2021**



**First Announcement**



[www.e-smart2021.org](http://www.e-smart2021.org) 



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## Register now!

Online pre-registrations at [www.e-smart2021.org](http://www.e-smart2021.org)  
Deadline for reduced fees: **March 8, 2021**

## Live Sessions

scheduled on **May 24-28 2021** CET  
[www.e-smart2021.org](http://www.e-smart2021.org)

## On-Demand Contents

available until **March 21, 2022**  
[www.e-smart2021.org](http://www.e-smart2021.org)

## e-smart 2021

Anche per il 2021, nell'impossibilità di rinnovare il tradizionale appuntamento a Milano per il protrarsi dell'emergenza sanitaria, lo SMART si ripropone nella veste ormai collaudata di **e-smart**, un virtual meeting di alto profilo pensato per accogliere i più recenti ed accreditati contributi scientifici internazionali e ricreare quella preziosa occasione di confronto tra clinici, ricercatori ed aziende che da sempre caratterizza lo spirito SMART.

Facendo tesoro dell'esperienza dello scorso anno, per la prossima edizione online si è puntato su un format più agile e snello, articolato su due canali paralleli di sessioni live, con spazio di interazione da parte dei partecipanti. Le sessioni live saranno abbinare a *brick* pre-registrati e saranno integrate da tutorial su argomenti di sicuro interesse, anch'essi pre-registrati. *Brick* e tutorial saranno caricati sulla piattaforma alcuni giorni prima dell'evento live. In un'ottica di aggiornamento continuo, l'offerta formativa si arricchisce di Webinar realizzati sotto l'egida SMART, programmabili nell'arco dell'anno e successivamente accessibili on-demand sulla piattaforma.



## CRITICAL CARE

### VENTILATORY SUPPORT IN RESPIRATORY FAILURE: SETTING MECHANICAL VENTILATION AND NIV IN ARDS

*TOPICS TO DISCUSS:*

- Patient selection
- In non Covid-19 patients
- In Covid-19 patients
- Prone position in mechanical ventilation

### VENTILATORY SUPPORT IN RESPIRATORY FAILURE MAINTAINING SPONTANEOUS BREATHING IN COVID-19 PATIENT

*TOPICS TO DISCUSS:*

- P-SILI: Fact
- P-SILI: Fiction
- CPAP
- HFNO

### ARDS: CAN VILI BE MINIMIZED?

*TOPICS TO DISCUSS:*

- Measuring respiratory drive and effort in ARDS
- VILI: clinical data and effects on outcome
- VILI: vascular stress and vascular injury
- Role of the hemodynamic status on the VILI



## CRITICAL CARE

### EXTRACORPOREAL STRATEGIES IN ARDS

*TOPICS TO DISCUSS:*

- Indications and outcomes of ECMO post EOLIA
- ECCO<sub>2</sub>R in ARDS
- ECMO in Covid-19: criteria for selection
- ECMO in Covid-19: outcomes

### DYS-SYNCHRONIES IN MECHANICAL VENTILATION

*TOPICS TO DISCUSS:*

- Do dys-synchronies affect outcome?
- How to detect and monitor dys-synchronies
- Setting the ventilator to minimize dys-synchronies

### DIAGNOSTIC CHEST IMAGING

*TOPICS TO DISCUSS:*

- Nothing is better than CT scan
- I prefer US
- EIT
- The optimal choice for Covid-19 patients

### ROUND TABLE IMMUNOMODULATORS AND ANTICOAGULATION IN COVID-19: WHEN, HOW MUCH AND IN WHOM?



## CRITICAL CARE

### WHICH ALTERNATIVES (APPROACH) IN PATIENTS REQUIRING VASOACTIVE DRUGS?

*TOPICS TO DISCUSS:*

- Common approach to shock
- Drawbacks of common approach
- Concept of deamination
- Personalized approach
- Role of the new drugs

### SECONDARY INFECTIONS IN COVID-19: PREVENTION AND MANAGEMENT

*TOPICS TO DISCUSS:*

- High incidence and infection control
- Role of surveillance
- Potential role of prophylaxis
- Appropriate therapy
- Role of fungal infections



## CRITICAL CARE

### COVID-19: GOVERNING IMMUNE RESPONSE IS THE KEY TO SURVIVE

*TOPICS TO DISCUSS:*

- Pathophysiological evolution of Covid-19
- Immune signature of Covid-19
- Role of steroids, cytokine blocking agents
- Time of intervention
- Adverse events
- Use of immune-drugs in other similar disease
- Endothelium and coagulation

### ACID BASE AND ELECTROLYTES

*TOPICS TO DISCUSS:*

- Why to assess chloride
- Base excess: meaning and uses
- Lactic base excess: a rapid clinical tool
- When to measure electrolytes in the urine

### ALBUMIN: WHERE ARE WE?

*TOPICS TO DISCUSS:*

- Waiting for answer: the ALBIOS 2 study
- Waiting for answer: the ARIS study
- Albumin oxidation in sepsis
- Albumin binding properties in the critically ill
- When and how much I use albumin



## ANESTHESIA

### PREOPERATIVE EVALUATION FOR SURGERY IN 2021. WHAT IS CONFIRMED, WHICH IS THE NEW EVIDENCE, WHICH ARE THE OPEN TOPICS?

#### TOPICS TO DISCUSS:

- Which test/examinations are necessary and in which clinical context?
- What are the comorbidities to identify as they are subject to treatment? How to deal with them?
- Cardiopathic patient: diagnostic approach and management
- Pneumopathic patient: diagnostic approach and management
- Obese patient: diagnostic approach and management
- Fragile patient: diagnostic approach and management
- How does the Covid-19 patient differ from the above?

### ELECTIVE AIRWAY MANAGEMENT IN 2021. WHAT IS CONFIRMED, WHICH IS THE NEW EVIDENCE, WHICH ARE THE OPEN TOPICS?

#### TOPICS TO DISCUSS:

- Awake or sleep induction? When? Why? How?
- Which devices must be available? Which ones should be used? How?
- What are the decision-making algorithms to know and implement?
- What strategy to use to optimize pre-induction oxygenation?
- What changes in the Covid-19 patient?



## ANESTHESIA

### WHAT IS THE STATE-OF-THE-ART REGARDING PERIOPERATIVE ANALGESIA IN 2021?

#### TOPICS TO DISCUSS:

- When is intravenous analgesia useful? When are opioids useful? When can they be avoided and how?
- What is the role of loco-regional anesthesia? Support or alternative?
- Anesthesia techniques in special context (cancer patients, elderly patients)
- What changes in the Covid-19 context?

### INTRAOPERATIVE ANESTHESIA MANAGEMENT IN 2021. WHERE ARE WE?

#### TOPICS TO DISCUSS:

- Which vascular access to prefer? What is the most appropriate positioning and removal strategy?
- What fluid therapy? Based on which guide? With what kind of goal?
- Secrets of optimal ventilation in the operating room
- What monitoring? For what procedure? In which patient?
- When is neuromuscular block needed? What is the adequate depth? What administration and withdrawal strategy? Where are we with monitoring?
- What needs to be changed in the Covid-19 patient?



### POSTOPERATIVE MANAGEMENT IN 2021. WHERE ARE WE?

#### TOPICS TO DISCUSS:

- Is it time to focus on early mobilization and nutrition? In which patients? How?
- What are the criteria for choosing the most appropriate postoperative care?
- What is known about the long-term consequences of anesthesia? What can be done to prevent them?
- What to focus on in the postoperative course



## Keynote Lectures

- *Adaptations to hypoxia*
- *Oxygen, hypoxia and evolution*
- *The war doctor: parallels between disaster medicine, war medicine and a pandemic*
- *The creation of the Oxford Vaccine*



## CRITICAL CARE

### WHICH ALTERNATIVES (APPROACH) IN PATIENTS REQUIRING VASOACTIVE DRUGS?

*PRE-REGISTERED BRICKS:*

- Shocked patients: I prefer old drugs
- Why I want to deamine
- Vasopressin in my daily practice
- Inotropes are not similar

### SECONDARY INFECTIONS IN COVID-19: PREVENTION AND MANAGEMENT

*PRE-REGISTERED BRICKS:*

- Should I have to use prophylaxes in Covid-19?
- Covid-19 associated pulmonary aspergillosis: identification and management
- ICU-acquired infections and appropriate use of new antibiotics
- Role of viral reactivation in Covid-19
- Infection or colonization: when have I to treat

### COVID-19: GOVERNING IMMUNE RESPONSE IS THE KEY TO SURVIVE

*PRE-REGISTERED BRICKS:*

- The good and the bad of steroids in Covid-19 ARDS
- Cytokine blocking agents in critically ill patients
- Blood purification in cytokine storm: time and benefits
- How to support immunosuppressed patients
- Immunoglobulins in severe CAP and Covid-19
- Clotting in Covid-19: treat endothelium disease



## CRITICAL CARE

### RESPIRATORY CRITICAL CARE

*PRE-REGISTERED BRICKS:*

- PaO<sub>2</sub> and SaO<sub>2</sub> targets in hypoxemic respiratory failure
- Assessing deadspace at the bedside
- Effects of CO<sub>2</sub> on deadspace and outcome
- How I assess recruitability at the bedside
- How to measure esophageal pressure
- Inhaled vasodilators - anticoagulants - antibiotics
- Pathology of VILI: lessons from physiology
- CPAP and NIV interface

## ANESTHESIA

### PREOPERATIVE EVALUATION FOR SURGERY IN 2021. WHAT IS CONFIRMED, WHICH IS THE NEW EVIDENCE, WHICH ARE THE OPEN TOPICS?

*PRE-REGISTERED BRICKS:*

- The role of perioperative echocardiography in 2020
- Perioperative management of patients on anticoagulant/antithrombotic therapy
- Should I stop or continue drugs before giving anesthesia?
- Management of anticoagulants in the perioperative setting
- Allergy and anesthesia: managing the risk
- Cardiopathic patient undergoing non-cardiac surgery
- The OSA patient
- Perioperative approach and pitfalls in OSAS
- Anesthetic management of severe obese patient
- Perioperative neurocognitive disorders in the elderly: state of the art





## ANESTHESIA

### ELECTIVE AIRWAY MANAGEMENT IN 2021. WHAT IS CONFIRMED, WHICH IS THE NEW EVIDENCE, WHICH ARE THE OPEN TOPICS?

#### PRE-REGISTERED BRICKS:

- Awake tracheal intubation in adults
- Devices for airway visualization: state of the art
- Universal principles for determining the initial approach to airway management
- Universal principles for airway rescue
- Universal principles for extubation
- How do I manage the bloody bleeding airway
- Preoxygenation: too little, too much or just right
- HFNO: preoxygenation
- Extubation: the redhead stepchild in Covid-19 airway management
- Head and neck airway management and anesthesia in Covid-19
- Awake intubation in Covid-19

### WHAT IS THE STATE-OF-THE-ART REGARDING PERIOPERATIVE ANALGESIA IN 2021?

#### PRE-REGISTERED BRICKS:

- Perioperative opioids: friend or foe?
- Postoperative analgesia: where are we?
- Safe practice of total intravenous anesthesia (TIVA)
- The procedure-specific postoperative pain management (PROSPECT) approach
- Fascia plane blocks: fact or fiction? Fact
- Anesthetic choices and cancer outcomes
- Anesthesia and cancer recurrence



## ANESTHESIA

### INTRAOPERATIVE ANESTHESIA MANAGEMENT IN 2021. WHERE ARE WE?

#### PRE-REGISTERED BRICKS:

- Ultrasound-guided vascular access and regional blocks
- Perioperative goal-directed hemodynamic therapy: what fluids should we use?
- Liberal, restrictive or goal-directed fluid management?
- What's new in fluid responsiveness assessment?
- Protective ventilation during general anesthesia
- Ventilatory management in the obese
- Perioperative goal-directed hemodynamic therapy: new evidence
- Role of perioperative pressure modification on myocardial injury
- Optimization of the microcirculation: ready to be used in the operating room?
- Bispectral index, state and response entropy, quantification of consciousness, patient state index: different or more of the same?
- Neuromuscular blocking agent: state of the art

### POSTOPERATIVE MANAGEMENT IN 2021. WHERE ARE WE?

#### PRE-REGISTERED BRICKS:

- Perioperative monitoring 4.0
- Postoperative delirium
- Chronic postoperative pain



### BASIC TUTORIALS

- Respiratory physiology: the essential to manage a critical patient
- Setting and monitoring mechanical ventilation in a difficult-to-ventilate patient
- CPAP and High Flow Nasal cannula Oxygen
- Understanding a gas analysis: from the numbers to the respiratory and cardiocirculatory status
- Lung and diaphragm ultrasound: the essential
- Cardiocirculatory physiology: the essential to manage a critical patient
- Evaluating and monitoring the myocardial function
- Evaluating the volemic status and fluid management
- The correct use of cardiovascular drugs in the critical patient
- Ultrasound for the cardiocirculatory assessment: the essential



### BASIC TUTORIALS

- Prevention and assessment of AKI
- Managing electrolytes in the critically ill
- Interpretation of acid base balance
- CRRT
- Sedation and analgesia in the critically ill
- Sepsis: pathophysiology and clinical picture
- Managing sepsis and septic shock
- Optimal use of antibiotics in the critically ill
- Managing the brain injury
- Nutritional strategy in the critically ill

## General Information



### e-smart 2021

The **e-smart 2021** will be held on an online platform [www.e-smart2021.org](http://www.e-smart2021.org)

Pre-registration is needed to participate.

### Virtual ambience



Participants will be welcomed in the Lobby (see picture above) which is intended to be the crossroads of all the **e-smart 2021** activities. In the Lobby, you can register for the meeting, ask for organizational or technical info through a chat interface, view the Scientific Program and the list of Speakers. The Webinar area on the left gives access to all Webinars that will be live-streamed as scheduled throughout the year.

During the live meeting, from the Lobby you can access the 2 Live Halls (on the left) for simultaneous live sessions. The On-Demand Area (on the right) includes the Tutorial Hall, the Brick Space, the Library and the the Question&Answer Room, as well as the Webinar Collection space where all the past registered Webinars can be viewed.

### Meeting times

All meeting times are CET (*Central European Time*).

### Official languages

**e-smart 2021**  
English, no simultaneous translation

**Bricks**  
English or Italian, no simultaneous translation

**Tutorials**  
English or Italian, no simultaneous translation

**Webinars**  
English or Italian, 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

### Online registration

Online pre-registration is mandatory. Please submit your registration for the **e-smart 2021** at [www.e-smart2021.org](http://www.e-smart2021.org) and/or [www.smartonweb.org](http://www.smartonweb.org). Read the instructions carefully before starting registration.

### Webinars

All SMART Webinars scheduled will be free and not dependent on the **e-smart** registration.

## General Information



### Registration fees

	BEFORE MARCH 8	AFTER MARCH 8
<b>ESICM - SIAARTI - AARO - ESPNIC MEMBERS</b>	€ 50.00	€ 100.00
<b>NON-MEMBERS</b>	€ 100.00	€ 150.00
<b>VETERINARIANS &amp; PHARMACISTS</b>	€ 50.00	€ 100.00
<b>NURSES*</b>	€ 30.00	€ 50.00
<b>RESIDENTS/STUDENTS*</b>	Free entrance, with mandatory pre-registration	

Legal VAT is included.

\* Pre-registration must be submitted online at [www.e-smart2021.org](http://www.e-smart2021.org) and/or [www.smartonweb.org](http://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, on-demand contents available until **March 21, 2022**. 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 contents of the meeting, with mandatory pre-registration. Additional accesses for staff members can be ordered at € 50,00/each VAT included, with mandatory pre-registration

### 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: e-smart 2021, first & family name of the Registrant.

**Credit Card** (*Visa, Mastercard, Maestro, Moneta*)

### Invoicing

The invoice will be sent to the address entered during registration at [www.e-smart2021.org](http://www.e-smart2021.org) and/or [www.smartonweb.org](http://www.smartonweb.org). Receipt of the invoice will confirm registration.

### Organizing Secretariat

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