

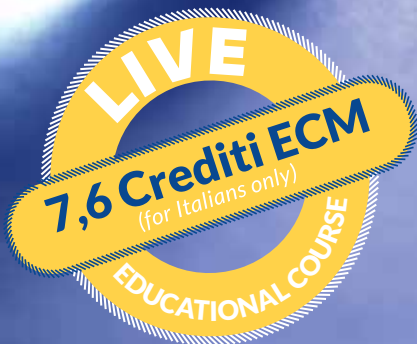


smart educational course

INTERACTIVE THEORETICAL-PRACTICAL COURSE

ACID-BASE EQUILIBRIUM: TO REMEMBER YOU NEED TO UNDERSTAND!

Milan, November 12 2020





smart educational course

SMART SCIENTIFIC BOARD

M. Antonelli, A. Braschi,
G. Conti, L. Gattinoni,
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F. Raimondi, M. Senturk

COURSE DIRECTOR

L. Gattinoni

SMART SCIENTIFIC SECRETARIAT

G. Bellani, L. Brazzi,
M. Girardis

FACULTY

P. Caironi, *Torino*
D. Colombo, *Milano*
L. Gattinoni, *Goettingen (D)*
T. Langer, *Milano*



PROGRAM

- 8.30 **Registration**
- 8.45 **Opening greetings and presentation of the Course**
L. Gattinoni
- 9.00 **Warm-up case**
T. Langer
- 9.10 **Physiology and pathophysiology of gas exchange**
L. Gattinoni
- 9.45 **Physicochemical approach to acid-base equilibrium: advantages and limitations**
P. Caironi
- 10.15 **Classic approach to acid-base equilibrium: what does the Henderson-Hasselbalch equation really mean?**
L. Gattinoni
- 10.45 **How does the blood gas analyzer work? Pre-analytical errors and meaning of the measured/calculated variables**
T. Langer
- 11.15 COFFEE BREAK
- 11.30 **Key role of arterio-venous blood gas analysis to understand respiratory and cardiocirculatory physiology**
L. Gattinoni
- 11.50 **How to differentiate between acute and chronic respiratory disorders**
T. Langer
- 12.10 **INTERACTIVE CLINICAL CASES: Part 1**
T. Langer, P. Caironi, L. Gattinoni
- 13.10 LUNCH BREAK

PROGRAM

- 14.00 **Metabolic acidosis: diagnosis and treatment with alkalinizing agents**
P. Caironi
- 14.20 **Metabolic alkalosis: what produces and what maintains it**
T. Langer
- 14.40 **Respiratory acidosis: when and how to correct**
L. Gattinoni
- 15.00 **Respiratory alkalosis and carbon dioxide stores of the body**
L. Gattinoni
- 15.20 **Acid-base alterations induced by intravenous fluid therapy**
P. Caironi
- 15.40 COFFEE BREAK
- 16.00 **Cerebrospinal fluid acid-base equilibrium**
T. Langer
- 16.20 **Diuretic-induced acid-base disorders**
P. Caironi
- 16.40 **INTERACTIVE CLINICAL CASES: Part 2**
T. Langer, P. Caironi, L. Gattinoni
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- End of the ECM Program*
- 17.40 **Technological evolution in hemogasanalysis***
D. Colombo
**Lecture Not included in the ECM program*
- 18.10 **Course closure**
L. Gattinoni

*The Course includes an interactive discussion of clinical scenarios with voting. Interactive voting is possible through the app **Poll Everywhere** (<https://www.polleverywhere.com/mobile>) or by linking at <https://pollev.com/thomaslanger673>*

INFO ECM (for Italians only)

PROVIDER: Start Promotion Srl - Provider standard ID622

ID EVENTO: 290519

OBIETTIVO NAZIONALE DI RIFERIMENTO:

Linee guida - Protocolli - Procedure (2)

DESTINATARI FORMAZIONE:

Medico Chirurgo. Discipline: Anestesia e Rianimazione, Biochimica Clinica, Cardiocirurgia, Cardiologia, Chirurgia Generale, Chirurgia Pediatrica, Chirurgia Toracica, Chirurgia Vascolare, Cure Palliative, Ematologia, Endocrinologia, Farmacologia e Tossicologia Clinica, Gastroenterologia, Geriatria, Ginecologia e Ostetricia, Malattie dell'Apparato Respiratorio, Malattie Infettive, Malattie Metaboliche e Diabetologia, Medicina dello Sport, Medicina e Chirurgia di Accettazione e di Urgenza, Medicina Fisica e Riabilitazione, Medicina Interna, Medicina Generale (Medici di Famiglia), Medicina Trasmfusionale, Nefrologia, Neonatologia, Neurochirurgia, Neurologia, Oncologia, Patologia Clinica (Laboratorio di Analisi Chimico-Cliniche e Microbiologia), Pediatria (Pediatri di Libera Scelta), Pediatria, Urologia. **Veterinario.** Discipline: Sanità Animale.

CREDITI ASSEGNATI: 7,6 crediti per l'anno 2020

IMPORTANTE: Ai fini dell'ottenimento dei crediti ECM è assolutamente indispensabile compilare in ogni sua parte (in particolare nome e cognome, data e luogo di nascita, codice fiscale e indirizzo e-mail) il Modulo Dati Personali, la Scheda di Valutazione del Gradimento ed il Questionario di Valutazione dell'Apprendimento. In caso di compilazione errata, incompleta o incomprensibile, non sarà riconosciuto alcun credito formativo. I partecipanti dovranno registrare la propria presenza in aula ad inizio e fine lavori. Attenzione: per conseguire i crediti formativi sarà necessario garantire la propria presenza al 90% del tempo totale, rispondere correttamente al 75% delle domande contenute nel Questionario di Valutazione dell'Apprendimento, compilare tutta la modulistica e riconsegnarla al termine del Corso al Desk Segreteria presente in sede.

REGISTRATION FEES

Resident € 150,00 Legal VAT is included

Physicians € 240,00 Legal VAT is included

Registration fee includes:

Congress kit, Badge, Attendance Certificate
Coffee break, Snack Lunch, ECM (for Italian only)

ONLINE REGISTRATION

Registrations (Max 50 participants) should be done online at:
www.startpromotion.it or **www.smartonweb.org**.

Please read the instructions carefully before starting your registration.

Online pre-registrations should be submitted before
November 1st, 2020. Later registrations are possible on-site only.

OFFICIAL LANGUAGE

The official language of the Course is English.
No translation provided.

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:

ACID-BASE EQUILIBRIUM, first & family name of the Registrant.

Credit Card (VISA, MASTERCARD, MAESTRO, MONETA)

INVOICING

The invoice will be sent to the address entered during online registration at **www.startpromotion.it**.
Receipt of the invoice will confirm registration.

CANCELLATION POLICY

A 50% refund of the registration fee will be paid **ONLY** for cancellations notified in writing before **October 1st, 2020**.
No refund is due for later cancellations.

COURSE
VENUE

**ANDREOLA
CENTRAL HOTEL**

Mascagni Room (Level -1)

Via Domenico Scarlatti, 24
20124 Milan (Italy)

www.andreolahotel.it

The Andreola Central Hotel is an urban hotel in the centre of Milan, just 200 metres away from the Central Railway station and the subways (Green, Red, Yellow lines – “Centrale” stop)

SEGRETERIA
ORGANIZZATIVA
E PROVIDER ECM

START PROMOTION Srl
Provider ECM 622

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DI:

