



# COURSES IN ANAESTHESIOLOGY



# INFORMATION



The European Journal of Anaesthesiology (EJA) is the official journal of the ESA. The CEEA keeps the possibility to propose to the Editorial Board, general reviews issued from course lectures. The Regional Centres are invited to promote the diffusion of the EJA and to propose a General review when possible. The EJA subscription is included in the ESA membership.



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# CEEAA

## Committee for European Education in Anaesthesiology

The CEEA (Committee for European Education in Anaesthesiology) is organising Refresher Courses in Anaesthesiology. The CEEA is part of the ESA (European Society of Anaesthesiology) and organises courses in collaboration with the WFSA (World Federation of Societies of Anaesthesiologists).

The main goal of the CEEA is to maintain and raise the standards of anaesthetic care at the highest possible level through Continuing Medical Education in Anaesthesiology, part of the Continuing Professional Development (CPD). Continuing Medical Education is a lifelong process and should remain an ethical obligation under the monitoring of the profession itself. The CEEA intends to organise its activities on the model of the Charter of the European Union of Medical Specialists (UEMS) for the CME. The concept of the courses organised by the CEEA follows the guidelines incorporated in the Dublin declaration of the UEMS, in particular in its article 9:

*“At the fully qualified level further education generally comes from interaction of informed and trained minds with one another and with external reality. Formal lectures and classes have only a part to play. Discussions among small groups of colleagues with and without invited experts together with the classical activities enumerated above are the principal methods”.*

The CEEA CME programme is based upon a cycle of six courses, covering in an integrated teaching programme all aspects of the speciality, including anaesthesia, intensive care, emergency medicine and pain therapy. On the basis of one course per year, an anaesthesiologist should complete a full cycle of six courses before starting again a new cycle. Six years cycle is considered the best compromise between the time to cover the full programme and the period to renew out-of-date knowledge. This period copes with the delay for recertification introduced in most of the countries. The CEEA courses are accredited in European countries by the national system of accreditation and the EACME.



European  
Society of  
Anaesthesiology **ESA**

## HISTORY

The FEEA, Fondation Européenne d'Enseignement en Anesthésiologie, Foundation for European Education in Anaesthesiology, was officially founded on 28 May 1986 by JOHAN SPIERDIJK, Leiden - the Netherlands, Prof. PHILIPPE SCHERPEREEL, Lille - France, Prof. GEORGES ROLLY, Gent - Belgium, Prof. GUILLAUME HANEGREEFS, Antwerp - Belgium and Prof. MAURICE LAMY, Liège - Belgium. The FEEA aimed initially to provide Continuing Medical Education (CME) in Anaesthesiology within the European Community. With the growth of the number of country members, the field of activity of the FEEA was extended progressively to the countries of the European Union and to countries of the East Europe.

Since 1995 associated centres are established in South and Central America, since 2004 in Africa and starting in 2006 in Asia. Last year more than 6,000 anaesthesiologists were attending the courses in more than 90 regional centres worldwide.

In 2006, discussions lead to the decision to merge the FEEA with the European Society of Anaesthesiology (ESA) which was officially voted during the World Congress of Anaesthesiologists in Cape Town by the FEEA General Assembly and by the ESA Council during the Euroanaesthesia congress in Copenhagen. It was decided that the merger will become effective on 01 January 2009, the FEEA becoming the Committee for European Education in Anaesthesiology (CEEA).

## COMMITTEE

The CEEA (Committee for European Education in Anaesthesiology) is composed of a Chairperson, six additional members chosen from among the CEEA Regional Centre Directors and a liaison officer appointed by the WFSA Executive Committee. The Chairpersons of the ESA Education & Training Committee, the EDA Examinations Committee and the NASC are also full members of the CEEA.



Download the CEEA policy on the ESA website <http://www.euroanesthesia.org> for more information about composition, election and term of office

## PROGRAMME OF THE SIX CEEA COURSES

- Course 1: Respiratory and Thorax
- Course 2: Cardiovascular
- Course 3: Intensive Care, Emergency Medicine,  
Blood and Blood Transfusion
- Course 4: Mother and Child. Adverse Reactions
- Course 5: Neurology, Loco-regional anaesthesia  
and Pain Therapy
- Course 6: Anaesthesia according to the Patient,  
Types of Surgery and Modes of Organisation

# PROGRAMME

## Course 1: RESPIRATORY AND THORAX

- 1.1 Physics and principles of measurement
  - 1.1.1 Physical laws
  - 1.1.2 Vaporizers
  - 1.1.3 Monitoring anaesthetic gases
- 1.2 Respiratory physiology
  - 1.2.1 Ventilation
  - 1.2.2 Carbon dioxide metabolism. Capnography
  - 1.2.3 Oxygen metabolism. Monitoring of oximetry
- 1.3 Anaesthesia for patients with respiratory failure
- 1.4 Anaesthesia for thoracic surgery
- 1.5 Postoperative respiratory distress
- 1.6 Intensive care for respiratory distress
  - 1.6.1 Acute asthma
  - 1.6.2 A.R.D.S.
  - 1.6.3 Pulmonary oedema
- 1.7 Techniques
  - 1.7.1 Anaesthetic circuits
  - 1.7.2 Ventilators
  - 1.7.3 Modes of ventilation
  - 1.7.4 Respiratory monitoring
  - 1.7.5 Fiberoptic bronchoscopy

### EVENING DISCUSSION:

- 1.1 Professional risks
- 1.2 Selection of ventilatory modes

### PRACTICAL:

Workshops, hands-on, video or simulations

- 1.1 Capnography
- 1.2 Closed circuits and low flow anaesthesia
- 1.3 Ventilatory modes in intensive care
- 1.4 High Frequency Ventilation

## Course 2: CARDIOVASCULAR

- 2.1 Cardiovascular physiology
  - 2.1.1 Arterial pressure
  - 2.1.2 Cardiac output
  - 2.1.3 Intracardiac pressure
  - 2.1.4 Electrophysiology of myocardial fiber
- 2.2 Pharmacology of cardiovascular drugs
  - 2.2.1 Inotropic agents
  - 2.2.2 Anti-arrhythmic drugs
  - 2.2.3 Beta-adrenergic blocking drugs
  - 2.2.4 Calcium channel blocking drugs
  - 2.2.5 Vasodilators and controlled hypotension
  - 2.2.6 Alpha-adrenergic drugs
- 2.3 Anaesthesia for the cardiac patient for non-cardiac surgery
  - 2.3.1 Preoperative assessment
  - 2.3.2 Coronary artery disease
  - 2.3.3 Hypertension
  - 2.3.4 Arrhythmias
- 2.4 Anaesthesia for cardiovascular surgery
  - 2.4.1 Open heart surgery and extracorporeal circulation
  - 2.4.2 Aortic surgery
  - 2.4.3 Carotid surgery
  - 2.4.4 Fiberoptic vascular procedures
- 2.5 Peri operative cardiovascular complications
- 2.6 Intensive care for cardiovascular failure
  - 2.6.1 Cardiogenic shock
  - 2.6.2 Cardiac arrest and CPR
  - 2.6.3 Pulmonary thrombo embolism
  - 2.6.4 Myocardial infarction
- 2.7 Techniques
  - 2.7.1 E.C.G.
  - 2.7.2 Haemodynamic monitoring
  - 2.7.3 Pacemakers
  - 2.7.4 Circulatory assistance
  - 2.7.5 Transoesophageal echocardiography

### EVENING DISCUSSION:

- 2.1 Monitoring in anesthesia
- 2.2 Informatics in anesthesia

### PRACTICAL:

- 2.1 Simulation of advanced CPR and arrhythmias
- 2.2 Haemodynamics

## Courses 3: INTENSIVE CARE, EMERGENCY MEDICINE, BLOOD AND BLOOD TRANSFUSION

- 3.1 Physiology of metabolism
  - 3.1.1 Sodium and water metabolism
  - 3.1.2 Potassium metabolism
  - 3.1.3 Calcium, magnesium and phosphorus metabolism
  - 3.1.4 Acid base metabolism
  - 3.1.5 Carbohydrates, lipids and protein metabolism
  - 3.1.6 Endocrine and metabolic response to anaesthesia and surgery
- 3.2 Intensive care
  - 3.2.1 Management of acute renal failure
  - 3.2.2 Parenteral and enteral nutrition
  - 3.2.3 Fluid and electrolyte disturbances
- 3.3 Endocrine and metabolic failures
  - 3.3.1 Diabetes
  - 3.3.2 Endocrine disturbances
  - 3.3.3 Acute pancreatitis
- 3.4 Emergency and trauma care
  - 3.4.1 Multiple injuries
  - 3.4.2 Chest injuries
  - 3.4.3 Head and spinal injuries
  - 3.4.4 Burns
  - 3.4.5 Haemorrhagic shock
  - 3.4.6 Crush syndrome
- 3.5. Infections
  - 3.5.1 Nosocomial infections
  - 3.5.2 Septic shock
  - 3.5.3 Antibiotics
  - 3.5.4 Immunology and AIDS
- 3.6 Blood and blood transfusion
  - 3.6.1 Blood and substitutes
  - 3.6.2 Blood saving techniques
  - 3.6.3 Haemostasis and haemorrhage
  - 3.6.4 Anticoagulants and thrombolytics

### EVENING DISCUSSION:

- 3.1 Safety and legal aspects of blood and substitutes transfusions
- 3.2 Monitoring of infections

### PRACTICAL:

- 3.1 Haemodialysis and haemofiltration
- 3.2 Rapid fluid load infusion devices
- 3.3 Cell savers



## Course 4: MOTHER AND CHILD. ADVERSE REACTION

- 4.1 Obstetrics
  - 4.1.1 Physiological changes in the mother during pregnancy
  - 4.1.2 Placental transfer of anaesthetics
  - 4.1.3 Loco-regional analgesia for vaginal delivery
  - 4.1.4 General anaesthesia for vaginal delivery
  - 4.1.5 Anaesthesia for caesarean section
  - 4.1.6 Anaesthesia for non-obstetric surgery during pregnancy
  - 4.1.7 Resuscitation and intensive care for obstetric emergencies
- 4.2 Paediatrics
  - 4.2.1 Physiological differences between adults and children
  - 4.2.2 Blood loss and fluid replacement
  - 4.2.3 Ventilatory requirements for infants and newborn
  - 4.2.4 Anaesthesia for infant and newborn
  - 4.2.5 General anaesthesia and loco-regional anaesthesia in paediatrics
  - 4.2.6 Resuscitation of the newborn
    - 4.2.6.1 Perinatal, cardio-respiratory physiology
    - 4.2.6.2 Resuscitation equipment
    - 4.2.6.3 Procedures of resuscitation
- 4.3 Adverse reactions
  - 4.3.1 Drug interactions
  - 4.3.2 Allergic reactions to anaesthetic drugs

### EVENING DISCUSSION:

- 4.1 Organisation of the anaesthetic care in obstetrical units
- 4.2 Anaesthesia sub-specialisation

### PRACTICAL:

- 4.1 Neural blocks in paediatrics
- 4.2 Mobile epidural in obstetrics
- 4.3 Neonates resuscitation

## Course 5: NEUROLOGY, LOCO REGIONAL ANAESTHESIA AND PAIN THERAPY

- 5.1 Physiology
  - 5.1.1 Central, peripheral and autonomic nervous system
  - 5.1.2 Nociceptive pathways
  - 5.1.3 Temperature regulation
  - 5.1.4 Neuromuscular physiology
    - 5.1.4.1 Physiology of the neuromuscular junction
    - 5.1.4.2 Monitoring of the neuromuscular blockade
    - 5.1.4.3 Myorelaxant NMBA
    - 5.1.4.4 Reversion of NMBA
- 5.2 Neurological status assessment
- 5.3 Anaesthesia for neurosurgery
- 5.4 Anaesthesia for the patient with neuromuscular disease
- 5.5 Peri operative neurological complications. Positions
- 5.6 Intensive care for neurological accidents
  - 5.6.1 Coma, intoxications and poisoning
  - 5.6.2 Malignant hyperthermia
  - 5.6.3 Cerebral death, organ donor management
  - 5.6.4 Sedation in the ICU
- 5.7 Loco regional anaesthesia
  - 5.7.1 Spinal anaesthesia
  - 5.7.2 Epidural anaesthesia
  - 5.7.3 Caudal anaesthesia
  - 5.7.4 Intravenous regional anaesthesia
  - 5.7.5 Plexular blocks
  - 5.7.6 Peripheral nerve blocks for upper and lower limbs
  - 5.7.7 Local anaesthetics
  - 5.7.8 Accidents of loco regional anaesthetics
- 5.8 Management of acute and chronic pain
  - 5.8.1 Postoperative pain
  - 5.8.2 Chronic pain
    - 5.8.2.1 Clinical evaluation of pain
    - 5.8.2.2 Types of pain
    - 5.8.2.3 Treatment of pain
    - 5.8.2.4 Terminal and palliative care

### EVENING DISCUSSION:

- 5.1 Medico legal and ethical aspects of anaesthesia and intensive care. Information and consent of the patient
- 5.2 Involvement of anaesthesiologists in chronic pain management. Pain clinics

### PRACTICAL:

- 5.1 Monitoring of the depth of anaesthesia and analgesia
- 5.2 Loco regional techniques
- 5.3 Monitoring of neuromuscular block

## Course 6: ANAESTHESIA ACCORDING TO THE PATIENT, TYPES OF SURGERY AND MODES OF ORGANISATION

- 6.1 Anaesthesia according to the patient
  - 6.1.1 Anaesthesia in the elderly
  - 6.1.2 Anaesthesia for the patient with renal failure
  - 6.1.3 Anaesthesia for the patient with liver disease
- 6.2 Anaesthesia according to the type of surgery
  - 6.2.1 Head and neck surgery
  - 6.2.2 Eye surgery
  - 6.2.3 Dental and orofacial surgery
  - 6.2.4 Thyroid and parathyroid surgery
  - 6.2.5 Urogenital surgery
  - 6.2.6 Hepatic and biliopancreatic surgery
  - 6.2.7 Major abdominal surgery
  - 6.2.8 Laparoscopic procedures
  - 6.2.9 Organ transplantation
- 6.3 Anaesthesia according to the organisation
  - 6.3.1 Day case surgery
  - 6.3.2 Sedation and anaesthesia for non surgical procedures (radiodiagnostic, endoscopic, electroconvulsive therapy)
- 6.4 Difficult airway

### EVENING DISCUSSION:

- 6.1 Anaesthesiology consultation
- 6.2 Quality assurance, techniques of evaluation and accreditation

### PRACTICAL:

- 6.1 T.I.V.A. – Pumps, drugs and techniques
- 6.2 Anaesthetic electronic chart
- 6.3 Difficult airway management
- 6.4 Fiberoptic bronchoscopy



Full programme available for  
download on the ESA website  
<http://www.euroanesthesia.org>

## DATES & FEES & REGISTRATIONS

The CEEA Refresher Courses consist of a cycle of six courses, each course usually last two days and half to three days. Each centre establishes the dates and fees for each course and is in charge of the registrations of the candidates. The calendar of courses can be found on the ESA website <http://www.euroanesthesia.org>. The centres can be contacted directly for more information about fees, speakers, accommodation, etc.

## EVALUATION OF THE COURSES

### 1. Evaluation of the Lecturers

Each lecturer is evaluated by the participants. The result is transmitted individually and confidentially to the lecturer.

### 2. Evaluation of the participants

This evaluation is mandatory but may be realised according several processes:

- written MCQs at the end of the course, with informatic alteration and transmission of the results individually and confidentially
- oral MCQs at the end of each day, presented on the screen, with immediate answer and discussion of the results with the teacher.
- it is recommended to add to the evaluation during or immediately after the course an evaluation six months later to assess the long term result and the impact on the professional practice.



## CERTIFICATES OF ATTENDANCE

A certificate of attendance is delivered to the participant:

- after each course, mentioning the number of the course and the date, signed by the course Director ;
- after completion of the full cycle, a diploma witnessing the participation to the six courses, signed by the CEEA Chairperson.

Such a certificate does not constitute an official diploma, but a recognition of participation to a CME process, usually taken into account in the frame of qualification or recertification. Accreditation of the course is requested from the official organism in charge of CME when a credit point system exists in the country.

## ONLINE COURSES

With the support and the technical assistance of General Electric Healthcare – Helsinki – a website dedicated to distance learning education has been created in 2004. Free of access, this website aims to offer to all anaesthesiologists the slideshows and the texts of the lectures presented in various languages during the CEEA courses.

On a voluntary basis, the lecturers may accept to give their texts and their slides to be presented on the website.

These pedagogical documents may be used by individuals for their own education but not used for commercial purposes. The CEEA does not request the copyright of these documents which can be used by the lecturer. The author remains the owner, for publication. The documents may be downloaded exclusively for a personal use.



Download past courses on  
<http://www.euroviane.net>

# CENTRES

The CEEA is based on a network of Regional Centres managed by a course Director and a Scientific Committee. Each Centre covers an area around one or more universities. The CEEA courses are organised in agreement with the National Societies and the academic authorities in anaesthesiology. The Centres organise the cycles of CME courses within the framework designed by the CEEA. The courses are delivered in the language of the country by local teachers. Foreign guest lecturers translate their text and their slides to allow a correct understanding. The Centres are independent of the pedagogical and financial point of view. Nobody in the Committee, nor in the Centre management, is receiving a fee. Teachers take part to the courses on a voluntary base. They are not paid for the lectures but may be reimbursed of their travel expenses and the Centres take care of their meals and accommodation.

\* Centres in project or waiting to restart

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## COOPERATION WITH OTHER ANAESTHETIC ORGANISATIONS



A budget is attributed by the ESA Board of Directors to the CEEA to help the creation of new European Centres and to grant several lecturers travels every year for Eastern Europe centres.


The CEEA will continue to cooperate closely with the other regional areas worldwide, especially with the Confederation of Latino American Societies of Anaesthesiology (CLASA), the Asian and Australasian Regional Section (AARS) and the African Regional Section (ARS) of the World Federation of Societies of Anaesthesiologists (WFSA). The WFSA has endorsed several years ago the activities of the FEEA and a member of the WFSA Education Committee will continue to act as liaison officer with the CEEA. Some activities, made in close cooperation with the WFSA, will be developed to witness the willingness of the ESA to contribute to the anaesthesia improvement worldwide.

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## *Continuing medical education to improve your professional practice*

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