

RESPIRATION IN ANESTHESIA AND IN INTENSIVE CARE: FROM AIRWAY MANAGEMENT TO CELLULAR RESPIRATION

PROGRAMME

DECEMBER 9 - 10



2024

ircad
France

STRASBOURG
UNIVERSITY

Course director

P. Diemunsch (FR)

COURSE OBJECTIVES

- To provide extensive information concerning the various aspects of respiration in anesthesia and intensive care
- To cover technical and pathophysiological topics
- To allow participants to closely interact with world-renowned experts
- To provide hands-on sessions to improve skills in airway management techniques

COURSE ENDORSEMENT AND ACCREDITATION



This course is accredited by the **European Accreditation Council for Continuing Medical Education (EACCME)** to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS). ACCME credits are also recognized by the American Medical Association towards the Physician's Recognition Award (PRA).

COURSE DIRECTOR

Pr. Pierre DIEMUNSCH C.H.U. DE HAUTEPIERRE, STRASBOURG, FRANCE

FACULTY

Pr. Michael AZIZ OREGON HEALTH AND SCIENCE UNIVERISTY, PORTLAND, USA

Pr. Tom BARNES PRIVATE PRACTICE, LONDON, UK

Dr. Claire BOPP C.H.U. DE HAUTEPIERRE, STRASBOURG, FRANCE

Dr. Jeanne CHARTON CENTRE HOSPITALIER GÉNÉRAL SAINTE CATHERINE, SAVERNE, FRANCE

Dr. Chloé CHAUVIN C.H.U. DE HAUTEPIERRE, STRASBOURG, France

Pr. Audrey DE JONG CHU HÔPITAL SAINT ELOI, MONTPELLIER, France

Dr. Sophie DIEMUNSCH C.H.U. DE HAUTEPIERRE, STRASBOURG, FRANCE

Dr. Valentina FAITOT C.H.U. DE HAUTEPIERRE, STRASBOURG, FRANCE

Dr. Denis GRAFF CLINIQUE RHENA, STRASBOURG, FRANCE

Dr. Maryse HENGEN C.H.U. DE HAUTEPIERRE, STRASBOURG, FRANCE

Pr. Samir JABER CHU HÔPITAL SAINT ELOI, MONTPELLIER, France

Pr. Michael KRISTENSEN RIGSHOSPITALET, COPENHAGUEN, DENMARK

Dr. Ngai LIU HÔPITAL FOCH, SURESNES, FRANCE

Pr. Claude MEISTELMAN H.M.V., SAINT-DIE-DES-VOSGES, FRANCE

Pr. Eric NOLL C.H.U. DE HAUTEPIERRE, STRASBOURG, FRANCE

Pr. Julien POTTECHER C.H.U. DE HAUTEPIERRE, STRASBOURG, FRANCE

Pr. Jean-Damien RICARD HÔPITAL LOUIS MOURIER, COLOMBES, FRANCE

Dr. Laurent SATTLER C.H.U. DE HAUTEPIERRE, STRASBOURG, FRANCE

Pr. Mervyn SINGER UNIVERSITY COLLEGE LONDON, LONDON, UK

Dr. Charles TACQUARD NOUVEL HOPITAL CIVIL, STRASBOURG, FRANCE

Pr. Klaus TORP MAYO CLINIC, JACKSONVILLE, USA

Pr. Nguyen VAN MINH HUE UNIVERSITY OF MEDICINE AND PHARMACY, HUE, VIETNAM

Pr. Jean-Louis VINCENT HÔPITAL ERASME ULB, BRUXELLES, BELGIUM

Each IRCAD faculty member confirms that any conflict of interest they may declare has no bearing on any scientific activity during the courses: all course content is fair, balanced, and free of commercial bias.

Monday December 9, 2024

MORNING

08.15 am Welcoming of participants (course material, administrative data)

08.30 am OPENING SESSION IN AUDITORIUM

CHAIRMEN: J. POTTECHER & P. DIEMUNSCH

Welcome & Introduction

P. DIEMUNSCH

08.45 Forthcoming SFAR guidelines for airway management in special conditions

J. POTTECHER

09.05 Is 'permissive hypoxemia' an acceptable concept?

J-L. VINCENT

09.25 Per operative PaCO₂ levels and perioperative events.
Unnoticed consequences of the carbon footprint

M. AZIZ

09.55 Discussion

10.10 am Coffee Break

10.30 am CHAIRMEN: J. POTTECHER & P. DIEMUNSCH

10.30 Respiratory symptoms during the anaphylactoid crisis

C. TACQUARD

11.00 Nasal high flow: how physics works with physiology for patient benefit

T. BARNES

11.30 The Cuirass: from theory to clinical use in anesthesia

M. KRISTENSEN

12.00 Pre Lab session

P. DIEMUNSCH

12.25 Group picture in the auditorium

Faculty &
Participants

12.30 pm Lunch at the institute

Monday December 9, 2024

AFTERNOON

01.45 pm PRACTICAL SESSION IN EXPERIMENTAL LABORATORY (3rd floor)

Beginning of the workshop rotation at **02.00 pm**

Workshops are run in parallel. Participants will have access to all workshops during the 2 days.

20 minutes per workshop and per group.

Table N° in the OR	TITLE	TUTORS
Table 1	Fast Echo: pneumothorax, hemothorax and hemoperitoneum Conventional and miniaturized devices	J. CHARTON
Table 3	Anesthesia ventilator settings & ICU ventilator settings (including ARDS in live model) - lung electrical impedance tomography	J. POTTECHER E. NOLL
Table 4	Demonstrating the physics behind nasal high flow in anesthesia and sedation	T. BARNES
Table 5	High flow oxygen therapy & ORI	M. HENGEN
Tables 6	Surgical airway: transtracheal approach, tracheoscopic control and cricothyrotomy approach	K. TORP
Tables 7	Intubation of the contaminated airway	K. TORP
Table 9	Single lung ventilation solutions	C. BOPP V. FAITOT
Tables 10-11	Combined approach for difficult intubation: videolaryngoscopy & fiberoptic bronchoscopy	N. VAN MINH P. DIEMUNSCH
Table 12-13	The Virtual Fiberoptic Intubation microsimulation program (VFI)	N. VAN MINH P. DIEMUNSCH
Table 14	Hemostasis	L. SATTTLER
Table 15	Biphasic Cuirass Ventilation	M. KRISTENSEN
Table 16-17	US guidance for airway management	S. DIEMUNSCH M. KRISTENSEN
Tables 18-19	Digital therapies for the reduction of pain and anxiety	C. CHAUVIN D. GRAFF

05.30 pm End of session - Evening free

Tuesday December 10, 2024

MORNING

08.15 am Welcome coffee

08.30 am THEORETICAL SESSION IN AUDITORIUM CHAIRMEN: E. NOLL & S. JABER

- | | | |
|-------|---|-------------|
| 08.30 | Treat the mitochondria, not the circulation | M. SINGER |
| 09.00 | Recent data in hypoxemic ICU patients and their meanings for our daily practice | J-D. RICARD |
| 09.30 | Recent ventilation trials in anesthesia. Implications for our daily practice | S. JABER |
| 10.00 | Inhalation anesthesia: not anymore! | N. LIU |
| 10.30 | Discussion | |

10.45 am Coffee Break

11.00 am CHAIRMEN: J. POTTECHER & E. NOLL

- | | | |
|-------|---|---------------|
| 11.00 | Videolaryngoscopy should become the standard in anesthesia | A. DE JONG |
| 11.30 | The 2023 ASA guidelines for the reversion of muscle relaxation: the prevention of ventilation complications | C. MEISTELMAN |
| 12.00 | Closing remarks | P. DIEMUNSCH |

12.30 pm Lunch at the institute

Tuesday December 10, 2024

AFTERNOON

01.30 pm PRACTICAL SESSION IN EXPERIMENTAL LABORATORY (3rd floor)

Beginning of the workshop rotation at **02.00 pm**

Workshops are run in parallel. Participants will have access to all workshops during the 2 days.

20 minutes per workshop and per group

Table N° in the OR	TITLE	TUTORS
Table 1	Fast Echo: pneumothorax, hemothorax and hemoperitoneum Conventional and miniaturized devices	J. CHARTON
Table 3	Anesthesia ventilator settings & ICU ventilator settings (including ARDS in live model) - lung electrical impedance tomography	J. POTTECHER E. NOLL
Table 4	Demonstrating the physics behind nasal high flow in anesthesia and sedation	T. BARNES
Table 5	High flow oxygen therapy & ORI	M. HENGEN
Tables 6	Surgical airway: transtracheal approach, tracheoscopic control and cricothyrotomy approach	K. TORP
Tables 7	Intubation of the contaminated airway	K. TORP
Table 9	Single lung ventilation solutions	C. BOPP V. FAITOT
Tables 10-11	Combined approach for difficult intubation: videolaryngoscopy & fiberoptic bronchoscopy	N. VAN MINH P. DIEMUNSCH
Table 12-13	The Virtual Fiberoptic Intubation microsimulation program (VFI)	N. VAN MINH P. DIEMUNSCH
Table 14	Hemostasis	L. SATTLER
Table 15	Biphasic Cuirass Ventilation	M. KRISTENSEN
Table 16-17	US guidance for airway management	S. DIEMUNSCH M. KRISTENSEN
Tables 18-19	Digital therapies for the reduction of pain and anxiety	C. CHAUVIN D. GRAFF

04.00 pm End of the course - Delivery of certificate of attendance