



**EUROPEAN
RESUSCITATION
COUNCIL**



Česká resuscitační rada
Czech Resuscitation Council

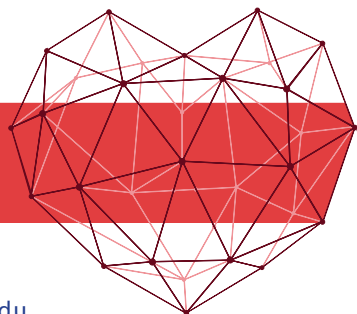


Scientific programme

RESUSCITATION 2015
THE GUIDELINES CONGRESS

29-30-31 **OCTOBER** - PRAGUE - **CZECH REPUBLIC**

www.resuscitation2015.eu - www.erc.edu



The Programme at a glance

Thursday October 29

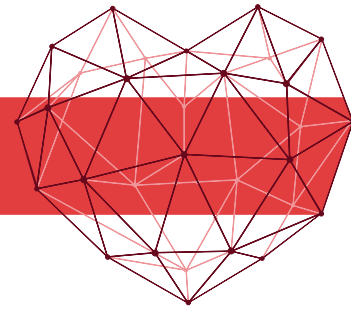
Room	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
13.30 14.30	Opening session						
14.30 16.00	Young Investigator Competition	Joint session with EUSEM	Translational Science	Free Paper 1	Ultrasound in Cardiac Arrest		Free paper 2
16.30 18.00	BLS	EMS Dispatch	Jane Bridger	Free Paper 3			Free Paper 4

Friday October 30

Room	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
09.00 10.30	Acute Coronary Syndromes	Children save lives	Tutorial PLS / NLS	Free Paper 5	Course Update BLS	CPR Competition	Meet the mentors
11.00 12.30	ALS	ESPNIC Joint session	Implementation Science	Free Paper 6	Feedback challenge for Instructors		Meet the mentors
Poster tours 1 to 14							
14.00 15.30	NLS	Optimising CPR	Publishing / Research	Free Paper 7	Course Update ILS	CPR Competition	Free paper 8
16.00 17.30	PLS	Pro - con debates	Special circumstances	Free Paper 9	Course Update ALS	CPR Competition	Free paper 10

Saturday October 31

Room	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
09.00 10.30	Best of the Best Abstracts	ESICM Joint session	New apps & innovations	Free Paper 11	Mask ventilation of babies & infants		Free Paper 12
11.00 12.30	Education Rapid fire session	ESC Joint session	Ethics	Free Paper 13	Course Update EPALS		Free Paper 14
Poster tours 14 to 28							
14.00 15.30	First Aid	ETC Joint Session	CPR Competition finals	New technology by Industry	Course Update GIC		
15.25 17.00	Closing session						



Content

1	Programme at a glance
4	Organising Committee
4	Scientific Committee
5	Faculty
13	Welcome Note from the Chairs
14	Congress Venue
16	New honorary members
20	Scientific Programme
45	Sponsored Symposium
46	Social event
48	List of Exhibitors
52	Best of the Best Abstracts
58	Oral Abstracts
146	Guided Poster Tours
170	Company Profiles
172	Personal notes

Download the Programme as a PDF onto your smartphone



Network: Resuscitation2015
LOGIN: EuropeanRC
PASSWORD: Guidelines2015



Organising Committee

Chair: Jan Bahr

Co-chair: Anatolij Truhlar

Leo Bossaert
Bernd Böttiger
Marios Georgiou
Tony Handley
Silvija Hunyadi-Antičević

Jeroen Janssens
Ronald Melieste
Gavin Perkins
Bart Vissers

Scientific Committee

Chair: Gavin Perkins

Anatolij Truhlar
Bernd Böttiger
Carsten Lott
David Zideman
Gavin Perkins
Ian Maconochie
Jas Soar

Jonathan Wyllie
Maaret Castrén
Patrick Van de Voorde
Robert Greif
Robin Davies
Silvija Hunyadi-Antičević
Violetta Raffay

Hans-Richard Arntz

Charité, University Medicine Berlin, Departement of emergency medicine, Campus Benjamin Franklin, Germany

John Ballance

Hereford, UK

Jonathan Benger

University of the West of England, Bristol, UK

Farzin Beygui

Caen University Hospital, Caen, France

Dominique Biarent

Hôpital universitaire des Enfants Reine Fabiola, Université Libre de Bruxelles, Belgium

Katarina Bohm

Karolinska Institute, Institution for Clinical Science and Education, Stockholm, Sweden

Leo Bossaert

European Resuscitation Council; University of Antwerp, Belgium

Bernd Böttiger

*University Hospital of Cologne, Cologne, Germany
University of Cologne, Cologne, Germany*

Jos Bruinenberg

Sint Elisabeth Hospital, Tilburg, the Netherlands

Ian Bullock

Royal College of Physicians, London, UK

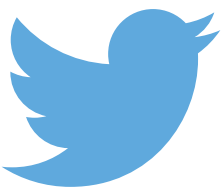
Roman Burkart

Ticino Cuore Foundation, Breganzona, Switzerland

Alain Cariou

University of Paris Descartes, Paris, France

Twitter



Facebook



Pascal Cassan

International Federation of Red Cross and Red Crescent Societies, Paris, France

Maaret Castrén

*Department of Emergency Medicine and Services, Helsinki University Hospital
Helsinki University, Helsinki, Finland*

Douglas Chamberlain

Brighton and Sussex Medical School, Brighton, UK

Patricia Conaghan

The University of Manchester, Manchester, UK

Spyros D. Mentzelopoulos

*University of Athens Medical School, Athens, Greece
Evangelismos General Hospital, Athens, Greece*

Robin Davies

Heart of England NHS Foundation Trust, Birmingham, UK

Emmy De Buck

Belgian Red Cross-Flanders, Mechelen, Belgium

Charles Deakin

University Hospital Southampton, UK

Judith Finn

Curtin University, Perth, Australia

Hans Friberg

Lund University, Lund, Sweden

Marios Georgiou

American Medical Center, Nicosia, Cyprus.

Peter Gheeraert

University Hospital Ghent, Belgium

Jan-Thorsten Gräsner

University Schleswig-Holstein, Kiel, Germany

Tino Greif

Bern University Hospital and University of Bern, Bern, Switzerland

Monika Grünfeld

Prehospital unit, Community Health Centre Kranj, Slovenia

Tony Handley

Cambridge, UK

Kirstie Haywood

*Royal College of Nursing Research Institute, Warwick Medical School, Warwick University,
Coventry, UK*

Mary-Fran Hazinski

Vanderbilt University, Nashville, Tennessee, USA

Matthias Helm

Federal Armed Forces Medical Centre, Dept. of Anaesthesiology, Ulm, Germany

Jürgen Knapp

University of Heidelberg, Heidelberg, Germany

Rudolph Koster

Department of Cardiology, Academic Medical Centre, Amsterdam, the Netherlands

Ulrich Kreth

St. Nikolaus Children's Hospital, Viersen, Germany

Swee-Han Lim

Singapore General Hospital, Singapore, Singapore

Anne Lippert

Copenhagen Academy of Medical Education and Simulation, Capital Region of Denmark

Freddy Lippert

Emergency Medical Services Copenhagen, University of Copenhagen, Denmark

Andy Lockey

Emergency Department, Calderdale & Huddersfield NHS Trust, Halifax, UK

Carsten Lott

Johannes Gutenberg-University Mainz, Germany

Ian Maconochie

Imperial College Healthcare Trust, London, UK

Carl McQueen

Clinical Trials Unit, University of Warwick, UK

Spyros Mentzelopoulos

University of Athens Medical School, Athens, Greece

Koen Monsieurs

University of Antwerp, Antwerp, Belgium

Peter Morley

University of Melbourne, Parkville, Australia

Vinay Nadkarni

University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, USA

Nikolaos Nikolaou

Konstantopouleio General Hospital, Athens, Greece

Jerry Nolan

University of Bristol and Royal United Hospital, Bath, UK

Elizabeth Norris

Resuscitation Council UK and ERC

Marcus Ong

Singapore General Hospital, Singapore

Duke-NUS Graduate Medical School, Singapore

Peter Paal

St Bartholomew's Hospital, Queen Mary University of London, UK

University Hospital Innsbruck, Austria

Michael Parr

University of New South Wales, Sydney, Australia

Gavin Perkins

University of Warwick and Heart of England NHS Foundation Trust, Warwick, UK

Patrick Plaisance

Lariboisière University Hospital, Paris, France

Violetta Raffay

Municipal Institute for Emergency Medicine Novi Sad, Novi Sad, Serbia.

Giuseppe Ristagno

IRCCS - Istituto di Ricerche Farmacologiche "Mario Negri", Milan, Italy

Marc Sabbe

University of Leuven, Leuven, Belgium

Claudio Sandroni

Catholic University School of Medicine, Rome, Italy

Ferenc Sari

Skellefteå Hospital, Skellefteå, Sweden

Joachim Schlieber

AUVA Trauma Centre, Salzburg, Austria

Sophie Skellett

Great Ormond Street Hospital, London, UK

Jas Soar

Southmead Hospital, Bristol, UK

Kjetil Sunde

Oslo University Hospital, Oslo, Norway

Hildigunnur Svavarsdóttir

Akureyri Hospital, Akureyri, Iceland

Daniele Trevisanuto

Azienda Ospedaliera di Padova, Padua University, Padova, Italy

Anatolij Truhlář

Emergency Medical Services of the Hradec Králové Region, Hradec Králové, Czech Republic

Patrick Van de Voorde

Ghent University, Ghent University Hospital, Ghent, Belgium

Federal Department of Health, Belgium

Max Vento

University & Polytechnic Hospital La Fe, Valencia, Spain

Michelle Welsford

McMaster University, Hamilton, Canada

Jonathan Wyllie

The James Cook University Hospital, Middlesbrough, UK

Theodore Xanthos

European University of Cyprus, Nicosia, Cyprus

David Zideman

Imperial College Healthcare NHS Trust, London, UK

CPR Competition team**Chairs**

Robin Davies

Ferenc Sari

Judges

Dominique Biarent

Patricia Conaghan

Monika Grunfeld

Silvija Hunyadi-Antičević

Anne Lippert

Freddy Lippert

Ian Maconochie

Koen Monsieurs

David Peran

Joachim Schlieber

Patrick Van de Voorde

A NEW APPROACH TO PATIENT TEMPERATURE MANAGEMENT

E·C·D Esophageal Cooling Device™ FOR WARMING TOO!

The ECD is inserted in a similar fashion to a standard orogastric tube, and can be used to control patient temperature in the operating room, recovery room, emergency room, or intensive care unit.

Visit us
at booth
C15

NO OTHER PRODUCT CURRENTLY ON THE
MARKET IS CLEARED TO USE THE
ESOPHAGEAL ENVIRONMENT FOR
WHOLE-BODY TEMPERATURE MODULATION.

WATER INFLOW
SUCTION
WATER OUTFLOW

Endotracheal Tube
with Cuff Inflation
(NOT INCLUDED)



AdvancedCoolingTherapy.com

+1-508-COOL DEvice
+1-508-266-5338

ECD-056 Rev D

The ECD is available for sale in Europe, Canada, Australia and the US.

Resuscitation 2015 - The Guidelines Congress

Welcome to Resuscitation 2015!

Dear Colleagues and Friends, welcome to the ERC Guidelines Congress!

Since Peter Safar's grandfather was born in the Czech Republic, not far from Prague, both the world and medicine have changed dramatically. Fortunately for many people, resuscitation has become available to everyone, treatment of cardiac arrest has become more effective, and numbers of survivors have risen. The new 2015 Resuscitation Guidelines, which we are very glad to present, are valuable tools aiming to continue with these positive trends and bring new opportunities and hopes for our future patients.

Come to the lectures and learn about the science behind the brand new treatment recommendations from their authors. Join hands-on sessions including emergency ultrasound training or triage to victims of mass casualty incident during an exciting outdoor activity. Network with the experts through tutorials and interactive sessions. Learn how to put the guidelines into learning experience through the insight into future ERC courses. Support professional teams taking part in the annual European CPR competition and see how the new treatment algorithms could be implemented into everyday practice. Discuss your ideas and share your results with the key opinion leaders during many oral and poster presentations. Meet and talk with your old friends in a friendly atmosphere, and of course make new ones. Pick up free public transportation tickets at the registration desk and enjoy Prague's historical monuments including the masterpieces of gothic or baroque architecture.

Resuscitation 2015 promises to deliver an exciting update on all aspects of resuscitation science, practice, education, and networking.

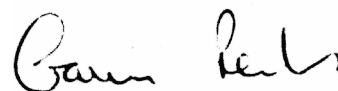
Enjoy your stay in Prague!



Dr Jan Bahr
Chair Organising Committee
ERC Director of congresses



Dr Maaret Castrén
Chair of the board of the ERC



Prof. Dr Gavin Perkins
Chair Scientific Committee



Dr Anatolij Truhlář
Chairman of the Czech Resuscitation Council
Co-chair Organising Committee

Pre-congress of the Czech Resuscitation Council

Thursday October 29

09:00 - 13:00

All lectures are in Czech only, without simultaneous translation.

09.00-09.10

Zahájení symposia / Welcome and introduction

Truhlář Anatolij

Room 2

Vaše ruce mohou zachránit více životů s novými postupy
Your hands can save more lives with the new guidelines

Forum Hall

09.10-10.20

Nová doporučení pro KPR 2015 I. / New CPR guidelines 2015 I.

Truhlář Anatolij - Kasal Eduard

Room 2

Základní neodkladná resuscitace a automatizovaná externí defibrilace
Basic life support and automated external defibrillation
Mathauser Radek (Hradec Králové)

Rozšířená neodkladná resuscitace dospělých
Adult advanced life support
Kasal Eduard (Plzeň)

Srdeční zástava ve specifických situacích
Cardiac arrest in special circumstances
Truhlář Anatolij (Hradec Králové)

Poresuscitační péče
Post resuscitation care
Černá Pařízková Renata (Hradec Králové)

Diskuze
Discussion

Forum Hall

Kávoová přestávka / Coffee break
10.20 - 10.50

10.50-12.00

Nová doporučení pro KPR 2015 II. / New CPR guidelines 2015 II.

Mathauser Radek - Rozsival Pavel

Room 2

Neodkladná resuscitace dětí
Paediatric life support
Rozsival Pavel (Hradec Králové)

Resuscitace a podpora novorozenců po porodu
Resuscitation and support of transition of babies at birth
Straňák Zbyněk (Praha)

Úvodní léčba akutních koronárních syndromů
Initial management of acute coronary syndromes
Škulec Roman (Beroun)

První pomoc
First aid
Štěpánek Karel (Ústí nad Labem)

Diskuze
Discussion

Forum Hall

12.00-13.00

Přestávka na oběd

Room 2

Dotazy přednášejícím mohou být zasílány předem na email ALSprovider@gmail.com nebo prostřednictvím facebooku ČRR.

All speakers will be able to answer the questions sent in advance to the email ALSprovider@gmail.com or via facebook of the CzeRC.

Forum Hall

The Congress of the European Resuscitation Council starts at 13:00 Thursday October 29

All lectures are in English only, without simultaneous translation.

13.00-14.30

Opening session	Gavin Perkins - Maaret Castrén	Room 1
Opening <i>Maaret Castrén (Finland)</i> <i>Anatolij Truhlář (Czech Republic)</i>		Congress Hall 13.00 - 14.30
Safar Memorial lecture <i>Katarina Bohm (Sweden)</i>		
EuReCa One <i>Jan-Thorsten Gräsner (Germany)</i>		
The New Guidelines 2015 <i>Koen Monsieurs (Belgium)</i>		

14.30-16.00

Young investigator competition	Gavin Perkins - Judith Finn - Thomas Uray	Room 1
Judges: Vinay Nadkarni, Richard Aickin, Ian Bullock, Mary-Fran Hazinski Keith Couper Anne Grossestreuer Amy Seymour-Walsh Matthew Sundermann Laura Whitehead Jolande Zijlstra		Congress Hall 14.30 - 16.00

14.30-16.00

Joint session with EUSEM	Patrick Van de Voorde - Anatolij Truhlář	Room 2
How to identify candidates for prolonged CPR <i>Marc Sabbe (Belgium)</i>		Forum Hall 14.30 - 16.00
A and B management during CPR and immediately after ROSC <i>Jonathan Bengier (United Kingdom)</i>		
Teams under stress <i>Matthias Helm (Germany)</i>		
Q & A - Discussion		

Translational science	Bernd Böttiger - Diana Cimpoesu	Room 3
Anaesthetic agents for the heart and the brain <i>Jürgen Knapp (Germany)</i>		Panorama Hall 14.30 - 16.00
Natural TTM: hibernation <i>Hans Friberg (Sweden)</i>		
Cyclosporine – Prevent the death cascade <i>Jürgen Knapp (Germany)</i>		
Q & A - Discussion		

Free paper session 1	Ian Maconochie - Sophie Skellet	Room 4
AS001: Photoplethysmographic detection of a spontaneous pulse during manual experimental cardiopulmonary resuscitation		Meeting Hall 1 14.30 - 16.00
AS002: Pre-hospital intra-arrest thrombolytic therapy: a retrospective audit of practice		
AS003: Changes in end tidal CO ₂ vs thoracic impedance for detecting restoration of spontaneous circulation		
AS004: Hyperoxygenation during ECLS – Pitfalls of a novel therapy for refractory Cardiac Arrest		
AS005: Association of prehospital endotracheal intubation with survival of patients with Out-Of-Hospital Cardiac Arrest: A 5-year retrospective cohort study		
AS006: Centhaquin improves the outcome of cardiopulmonary resuscitation in a swine model of prolonged ventricular fibrillation		