




The 1st Round Table about cardio-pulmonary and neurological interactions during CPR

Annecy's invitational (26th- 27th October 2017)

Jean-Christophe M Richard & Dominique Savary
Pôle SAMU 74 Urgence et Réanimation Centre Hospitalier Annecy Genevois
INSERM UMR 955 Eq13



The 1st Round Table on CPR
Annecy's invitational



CONFLICTS OF INTEREST

- Air Liquide Medical Systems



Financial support for research (Genève /Annecy/Angers)

- VYGON (fee for lectures)
- SHILLER
- MAQUET (NAVA)
- COVIDIEN (PAV+) (personal fee for lectures)
- DRAGER (SmartCare)
- GE (FRC)



The 1st Round Table on CPR Annecy's invitational



The 1st Round Table on CPR
Annecy's invitational

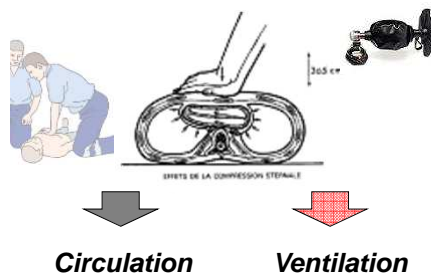
The 1st Roundtable on CPR
Veyrier-du-Lac, 26-27 October 2017

Les Pensières
CENTER FOR GLOBAL HEALTH

Thursday 26th October

Physiological aspects of cardio pulmonary interactions during CPR

- ✓ 8h30-9h00: The thoracic pump theory: anatomical description and global understanding (*Ricardo Cordioli - San Paulo*)
- ✓ 9h00-9h30: Animal models for CPR: strengths and limits (*Michael Fries - Aachen*)
- ✓ 9h30-10h00: Chest compressions: effects on intrathoracic pressures, lung volumes and ventilation (*Jean-Christophe Richard - Annecy*)
- ✓ 10h30-11h00: Risks and benefits of negative pressure during thorax decompression (*Guillaume Debaty - Grenoble*)
- ✓ 11h00-11h30: Airway closure: why it may be important? (*Laurent Brochard - Toronto*)

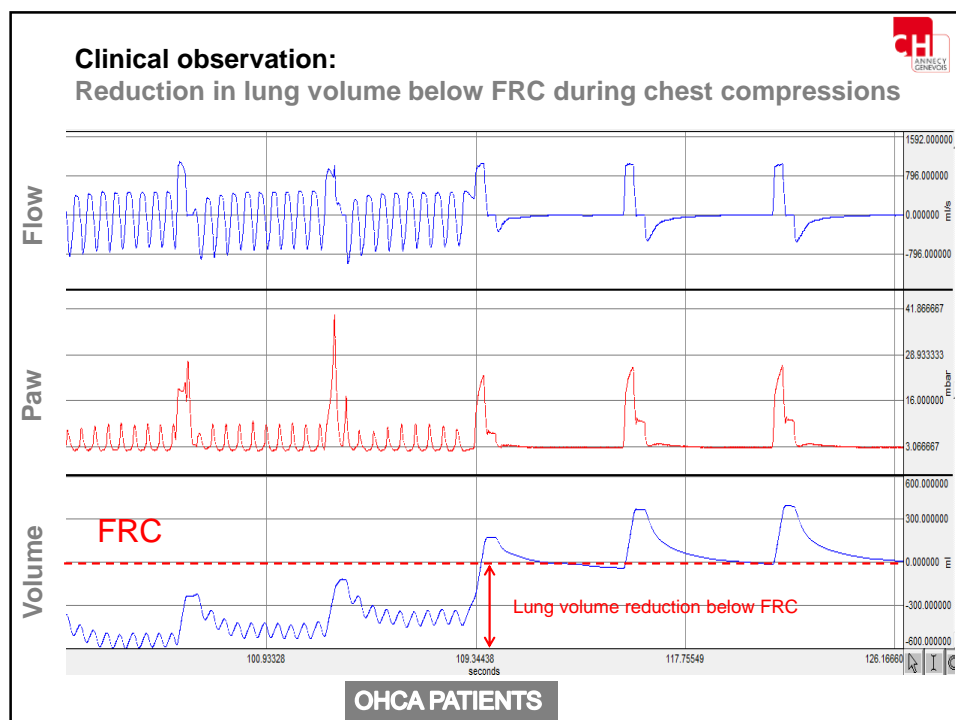
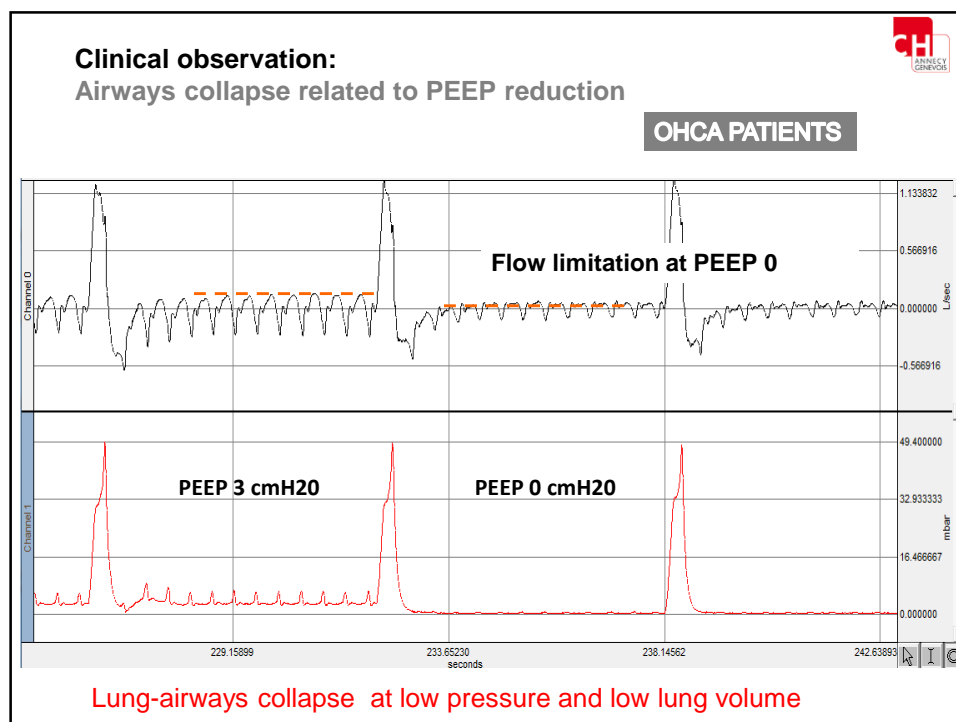


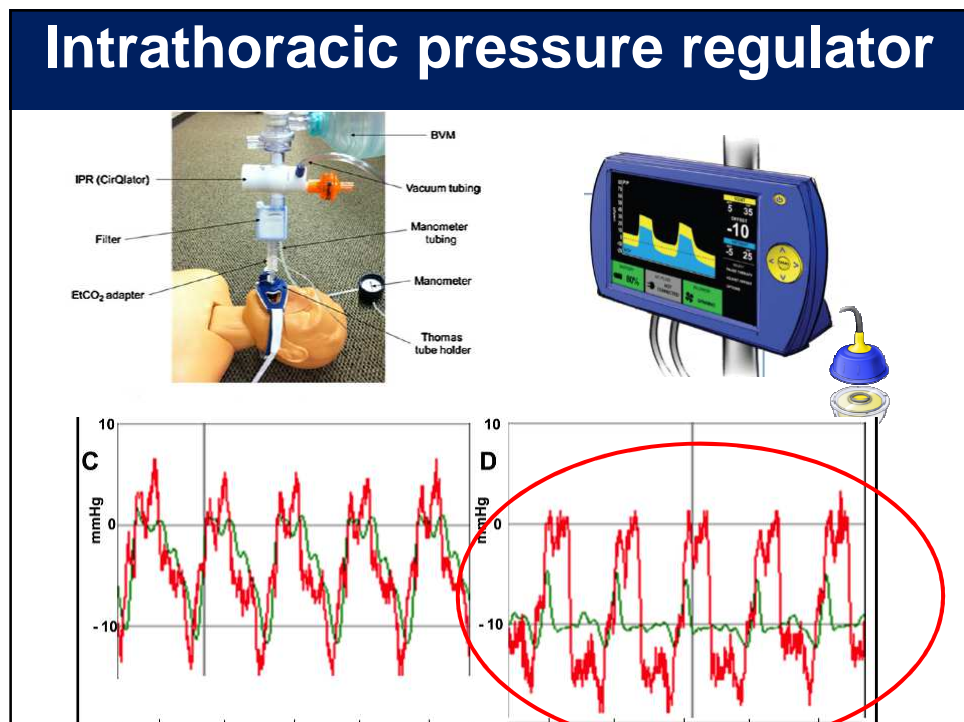
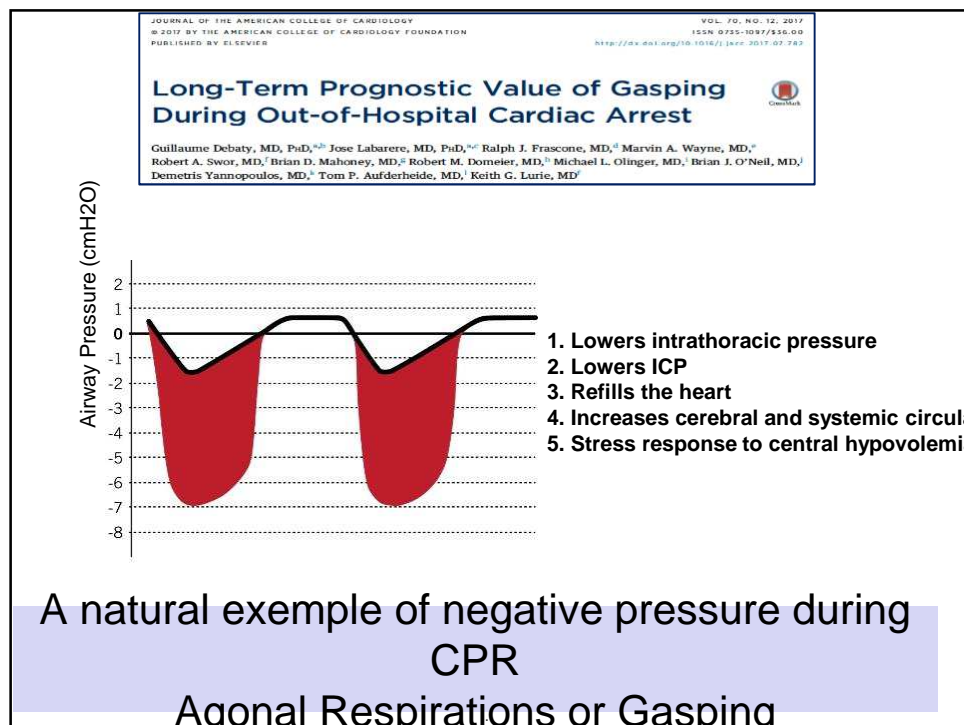
Ventilation and Circulation with Closed-Chest Cardiac Massage in Man

Peter Safar, M.D., Torrey C. Brown, Warren J. Holtey, M.D., and Robert J. Wilder, M.D., Baltimore

- ETI + curarised subjects → Manual CC generates 156mL of V_T (0 to 390mL)
- ETT + cardiac arrest subjects → Manual CC generates no V_T

J.A.M.A., May 20, 1961





Thursday 26th October

Implications of cardio pulmonary interactions during CPR

➤ Clinical practice of ventilation during CPR

- ✓ 13h30-13h45: What are the recommendations (*Alain Cariou - Paris*)
- ✓ 13h45-14h00: Canadian experience (*Ian Drennan - Toronto*)
- ✓ 14h05-14h20: French experience (*Dominique Savary - Annecy*)
- ✓ 14h25-14h40: Norway experience and specificities during transport (*Theresa M. Olasveegena - Oslo*)

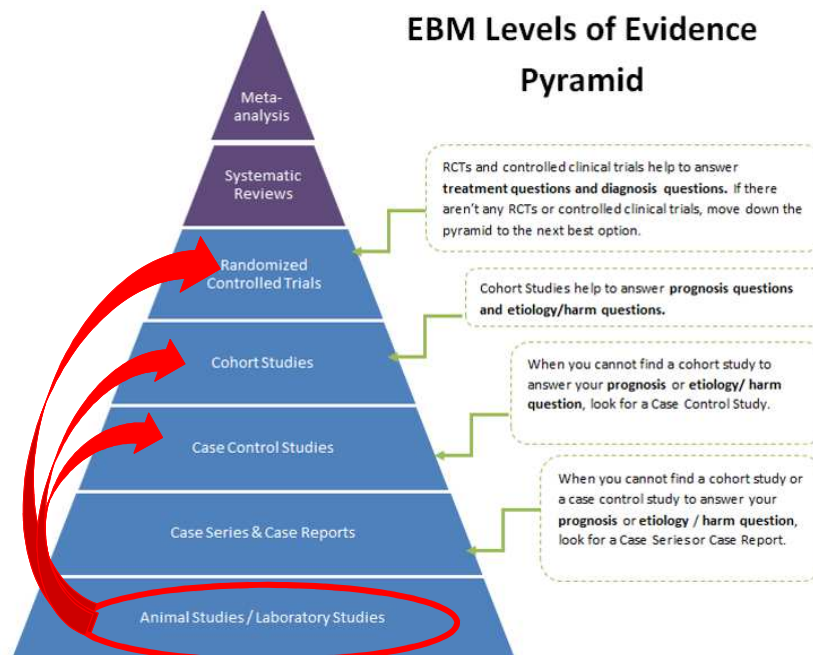
➤ Ventilation during CPR: further prospects

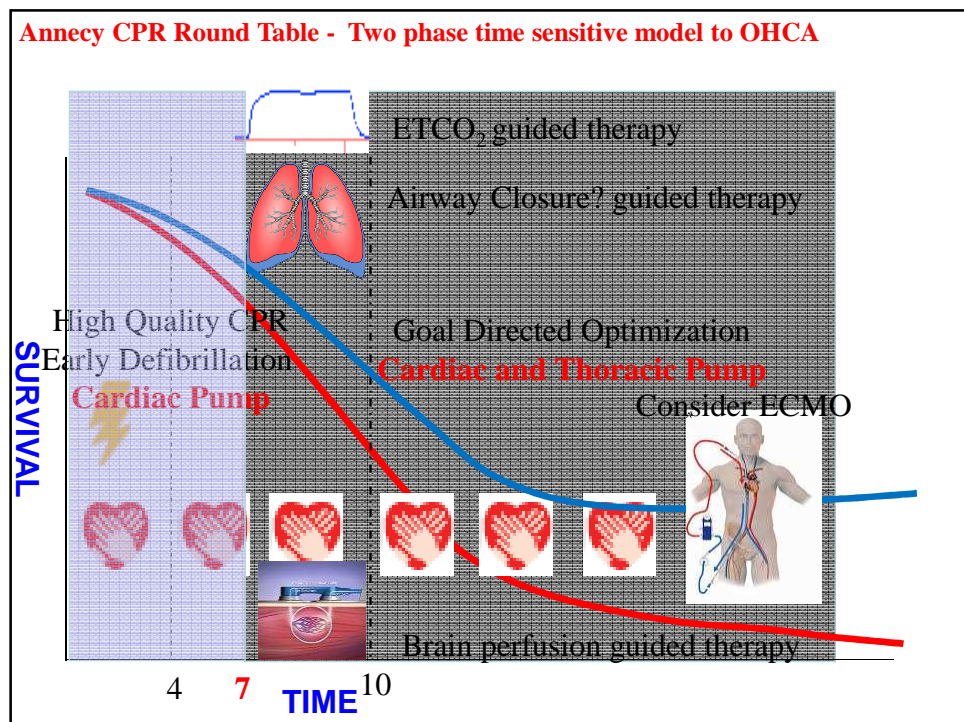
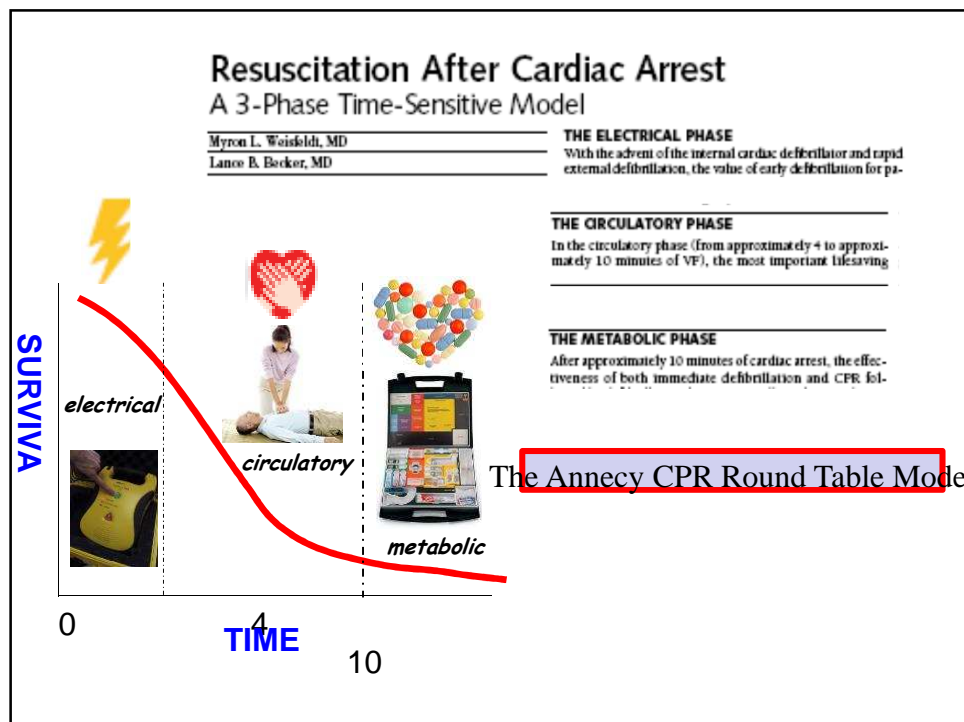
- ✓ 15h45-16h15: Clinical research on ventilation during CPR: what should be done in the future? (*Laurie Morrison - Toronto*)

➤ Challenges with clinical research in cardiac arrest

- ✓ 16h15-16h45: Challenges with transition from lab to clinic - can we trust the results from pragmatic RCTs? (*Kjetil Sunde - Oslo*)

EBM Levels of Evidence Pyramid





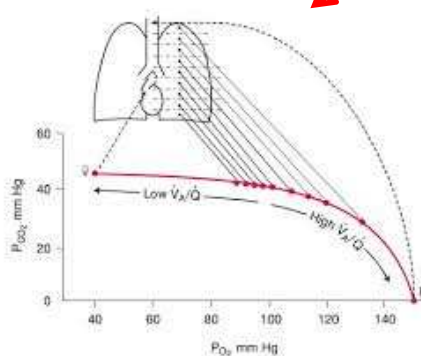
Friday 27th October

EtCO₂ meaning and interpretation during CPR

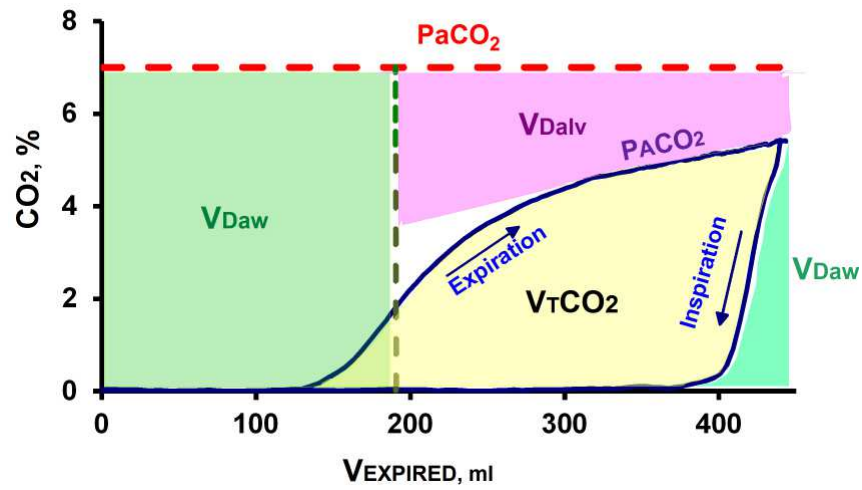
- ✓ 8h30-9h00: CO₂: physiological determinants (*Björn Jonson - Lund*)
- ✓ 9h00-9h30: Bench simulation and comparison with real tracings (*Jean-Christophe Richard - Annecy*)
- ✓ 10h00-10h30: Arterial blood gases in the prehospital field: interest and feasibility (*Simon Orlob - Graz*)
- ✓ 10h30-11h00: EtCO₂: recommendations, clinical applications and perspectives during CPR (*Laurie Morrison - Toronto*)

EtCO₂ during CPR : pitfalls and questions

**EtCO₂ depends on :
Ventilation and Circulation**

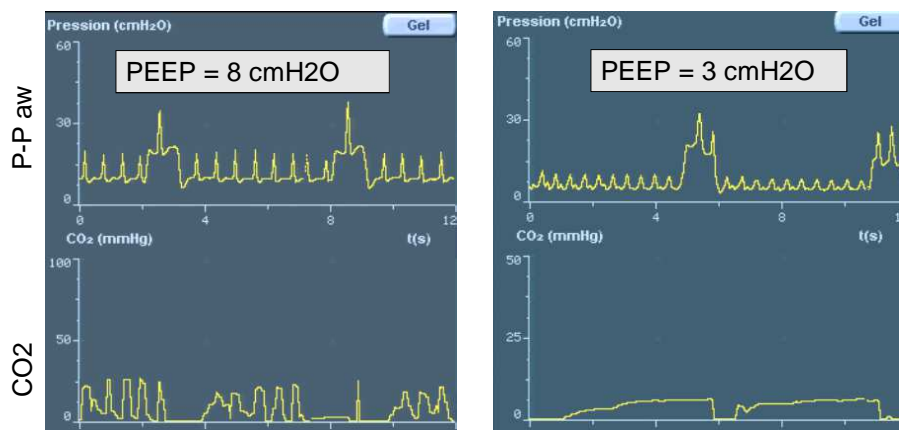


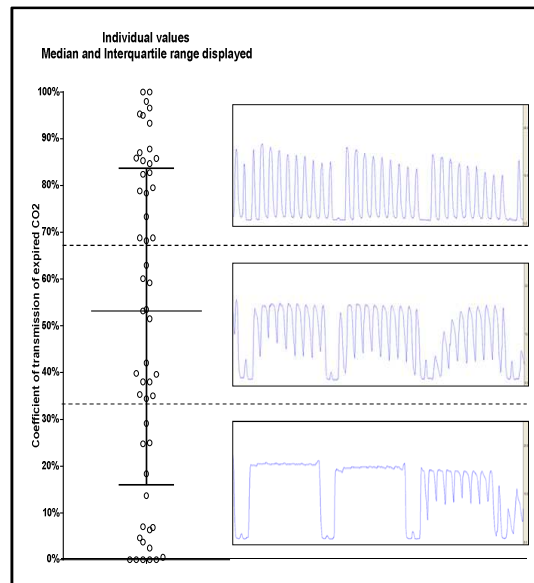
Analysis of the SBT- CO_2



Fletcher, Jonson et al. *Brit J Anaesth*

CPR on Thiel cadavers model: Impact of PEEP on airways and ventilation





Friday 27th October

- ✓ 8h00-8h30: How to assess outcome after CPR? (*Kirstie Haywood - Warwick*)

Neurological protection during and after CPR

- ✓ 13h30-14h00: Physiological determinants of neurological outcome during CPR (*Hans Friberg - Lund*)
- ✓ 14h00-14h30: Neuroprotection during and after CPR (*Fabio Taccone - Rome*)
- ✓ 14h30-15h00: Pharmacological therapies (*Michael Fries - Aachen*)



Claudio SANDRONI
MD, PhD

Writing Committee Coordonator



Rome, ITALY
Policlinico Universitario Agos



Jerry NOLAN
MD, PhD, FRCP, FRCA

Provocators Coordonator



Bath, UK
University of Bristol & Royal
United Hospital



Damon SCALES
MD, PhD, FRCPC

Writing Committee Coordonator



Toronto, CANADA
Department of Critical Care

The 1st Round Table about cardio- pulmonary and neurological interactions during CPR

Annecy's invitational (26th- 27th October 2017)