

CLINICAL "SNIPPETS"

Effect of chest compression only during experimental basic life support on alveolar collapse and recruitment

Markstaller K, Rudolph A, Karmrodt J, Gervais HW, Goetz R, Becher A, David M, Kempfski OS, Kauczor HU, Dick WF, Eberle B.
Department of Anaesthesiology, Johannes Gutenberg University Mainz, Langenbeckstr, Mainz, Germany.

Resuscitation. 2008 Oct;79(1):125-32.

Overview: This experimental study used dynamic computed tomography (CT) to assess the effects of chest compressions only during cardiopulmonary resuscitation (CCO-CPR) on alveolar recruitment and haemodynamic parameters in porcine model of ventricular fibrillation.

Conclusions: A lack of ventilation during basic life support is associated with excessive atelectasis, arterial hypoxaemia and compromised CPR haemodynamics. These detrimental effects remain evident even after restoration of IPPV.