

Universität zu Lübeck

Medizinische Fakultät

Klinik für Anästhesiologie

Direktor: Professor Dr. med. Peter Schmucker

Schriften- und Vortragsverzeichnis

Stand: 15. Dezember 2020

Prof. Dr. med. Wolfgang Eichler
geboren in Wolfsburg

1. Originalarbeiten

1. Schumacher J, Eichler W, Bauer O, Klotz KF (1998) Perioperative tissue thickness measurement by a new miniature ultrasound device. J Clin Monit Comput **14**: 471-476
2. Eichler W, Sedemund-Adib B, Schumacher J, Klotz KF (1999) Diagnosis, procedure and conservative therapy of a bronchial rupture after intubation with double lumen tube. AINS **34**: 66-70
3. Schumacher J, Engelke A, Wagner KF, Eichler W, Markert U, Klotz KF (1999) Measurement of peripheral tissue thickness by ultrasound during the perioperative period. Br J Anaesth **82**: 641-643
4. Eichler W, Eisenbeiß C, Schumacher J, Klaus S, Vogel R, Klotz KF (2000) Changes of interstitial fluid volume in superficial tissues detected by a miniature ultrasound device. J Appl Physiol **89**: 359-363
5. Eisenbeiß C, Welzel J, Eichler W, Klotz KF (2001) Influence of body water distribution on skin thickness: measurements using high frequency ultrasound. Br J Dermatol **144**: 947-951
6. Roth-Isigkeit A, Dibbelt L, Eichler W, Schumacher J, Schmucker P (2001) Blood levels of atrial natriuretic peptide, endothelin, cortisol and ACTH in patients undergoing coronary artery bypass grafting surgery with cardiopulmonary bypass. J Endocrinol Invest **24**: 777-785
7. Schumacher J, Russlies M, Eichler W, Großherr M, Klotz KF (2001) Comparison of three different methods of sedation for spinal anesthesia in sheep. Lab Animal (NY) **30**: 40-44
8. Eichler W, Schumacher J, Roth-Isigkeit A, Braun J, Kuppe H, Klotz KF (2002) Automated evaluation of functional residual capacity by oxygen washout. J Clin Monit Comput **17**: 195-201
9. Klaus S, Eichler W, Heringlake M, Schmucker P, Bahlmann L (2002) Assessment of fluid balance by measurement of skin tissue thickness during clinical anaesthesia. Clin Physiol & Func Im **22**: 197-201
10. Bahlmann L, Markert U, Heringlake M, Eichler W, Schmucker P, Klaus S (2003) Mikrodialyse als Verfahren zur Beurteilung einer intestinalen Dysoxie – ein tierexperimenteller Ansatz. Biomed Tech **48** :27-30

11. Bartels C, Erasmi A, Sayk F, Eggers R, Dendorfer A, Feyerabend T, Eichler W, Sievers HH (2003) Prophylactic gamma radiation of unaffected vein grafts failed to prevent vein graft disease in a chronic hypercholesterolemic porcine model. *Eur J Cardiothorac Surg* **24**: 92-97
 12. Eichler W, Bechtel JF, Schumacher J, Wermelt JA, Klotz KF, Bartels C (2003) A rise of MMP-2 and MMP-9 in bronchoalveolar lavage fluid is associated with acute lung injury after cardiopulmonary bypass in a swine model. *Perfusion* **18**:107-113
 13. Hartog CM, Wermelt JA, Sommerfeld CO, Eichler W, Dalhoff K and Braun J (2003) Pulmonary matrix metalloproteinase excess in hospital acquired pneumonia – relation to clinical severity and causative organism. *Am J Res Crit Care Med* **167**: 593-598
 14. Klaus S, Staubach KH, Eichler W, Gliemroth J, Heringlake M, Schmucker P, Bahlmann L (2003) Clinical biochemical tissue monitoring during ischaemia and reperfusion in major vascular surgery. *Ann Clin Biochem* **40**: 289-291
 15. Eichler W, Bechtel JFM, Klaus S, Heringlake M, Hernandez M, Toerber K, Klotz KF, Bartels C (2004) Na⁺/H⁺ exchange inhibitor cariporide: Effects on respiratory dysfunction after cardiopulmonary bypass. *Perfusion* **19**(1):33-40
 16. Eichler W, Schumacher J, Ohgke H, Klotz KF. Reuse of a set for total intravenous anaesthesia (2004) Safe against bacterial contamination? *Eur J Anaesthesiol* **21**(6):501-503
 17. Heringlake M, Heide C, Bahlmann L, Eichler W, Pagel H, Schmucker P, Wergeland R, Armbruster FP, Klaus S (2004) The effects of tilting and volume-loading on plasma levels and urinary excretion of relaxin, NTproANP, and NTproBNP in male volunteers. *J Appl Physiol* [online Vorveröffentlichung]
- _____ Habilitation _____
18. Eichler W, Frank I, Nehring M, Welsch J, Klotz KF (2004) Hypergravity and dehydration-induced shifts of interstitial fluid in the skin monitored by ultrasound. *Aviat Space Environ Med* **75**:760-763
 19. Schumacher J, Eichler W, Heringlake M, Siewers M, Siewers HH, Klotz KF (2004) Intercompartmental fluid volume shift during cardiopulmonary bypass measured by A-mode ultrasonography. *Perfusion* **19**(5):277-281.

20. Frank A, Grefer J, Hagelberg S, Eichler W (2005) The role of simulation in training and research. *Biomed Tech (Berlin)* **50**: 685-686
21. Heinze H, Schumacher J, Grossherr M, Eichler W (2005) Functional residual capacity assessment by oxygen washout during tracheo-bronchial suctioning. *Biomed Tech (Berlin)* **50**:309-310
22. Bechtel JFM, Eichler W, Törber K, Weidtmann B, Hernandez M, Klotz KF, Sievers HH, Bartels C (2005) The Na⁺/K⁺ exchange inhibitor cariporide is washed out from the myocardium by crystalloid cardioplegia. *Thorac Cardiovasc Surg* **54**:317-327
23. Schumacher J, Puchakayala MR, Binkowski K, Eichler W, Dendorfer A, Klotz KF. (2006) Effects of candesartan and enalaprilat on the organ-specific microvascular permeability during haemorrhagic shock in rats. *Br J Anaesth* **96**:437-443
24. Bechtel JFM, Eichler W, Großherr M, Sievers HH, Bartels C (2007) Lung temperature during cardiopulmonary bypass and the effect of hypothermic ventilation. *Appl Cardiopulm Pathophysiol* **11**: 11-16
25. Heinze H, Schaaf B, Grefer J, Klotz KF, Eichler W. (2007) The accuracy of a simple automated method for functional residual capacity assessment during spontaneous breathing. *Anesth Analg* **104**:589-604
26. Heinze H, Rosemann, C, Weber C, Heinrichs G, Bahlmann L, Misfeld M, Heringlake M, Eichler W (2007) A single prophylactic dose of pentoxifylline reduces high dependency unit time in cardiac surgery. *Eur J Cardiothoracic Surg* **32**:83-89
27. Heringlake M, Heinrichs G, Weber CF, Rosemann C, Bahlmann L, Eichler W, Misfeld M, Heinze H (2007) The anti-inflammatory and organ-protective effects of pentoxifylline during cardiac surgery. *Appl Cardiopulm Pathophysiol* **11**:17-23
28. Schumacher J, Runte J, Brinker A, Prior K, Heringlake M, Eichler W (2008) Respiratory protection during high fidelity simulated resuscitation of casualties contaminated with chemical warfare agents. *Anaesthesia* **12** (Epub ahead)
29. Heinze H, Sedemund-Adib A, Heringlake M, Gosch UW, Gehring H, Eichler W (2008) The impact of different step changes of FiO₂ on functional residual capacity measurements using the oxygen washout technique in ventilated patients *Anesth Analg* **106**: 1491-1494

30. Heinze H, Sedemund-Adib B, Gosch U, Eichler W (2008) Monitoring alveolar derecruitment at bedside using functional residual capacity measurements in cardiac surgery patients. *Appl Cardiopulm Pathophysiol* **12**: 27-32
31. Heinze H, Sedemund-Adib B, Heringlake M, Gosch UW, Eichler W (2008) Functional residual capacity changes after different endotracheal suctioning methods. *Anesth Analg* **104**: 141-144
32. Gameiro M, Eichler W, Schwandner O, Bouchard R, Schön J, Schmucker P, Bruch HP Hüppe M (2008) Patient mood and neuropsychological outcome after laparoscopic and conventional colectomy. *Surg Innov* **15**: 171-178
33. Grossherr M, Bechtel JFM, Heinze H, Klotz K-F, Sievers HH, Eichler W (2008) Effects of pulmonary artery perfusion on gas exchange and alveolar matrix metalloproteinases after cardiopulmonary bypass in a swine model. *Appl Cardiopulm Pathophysiol* **13**: 123-129
34. Heinze H, Sedemund-A, Heringlake M, Meier T, Eichler W (2009) Changes of functional residual capacity during weaning from mechanical ventilation – a pilot study. *Anesth Analg* **108**: 911-915
35. Iblher P, Iblher H, Eichler W (2009) Neue Wege in der Notfallausbildung von Medizinstudierenden – Evaluation eines multizentrischen, studentisch geleiteten Kurskonzepts. *Anaesthesist* **58**: 362-369
36. Heinze H, Eichler W (2009) Measurements of functional residual capacity during intensive care treatment – the technical aspects and its possible clinical applications. *Acta Anaesth Scand* **53**: 1121-1130
37. Heinze H, Sedemund-Adib, Heringlake M, Meier T, Eichler W. (2010) Relationship between functional residual capacity, respiratory compliance, and oxygenation in patients ventilated after cardiac surgery. *Respir Care* **55**: 589-594
38. Bechtel JF, Mühlenbein S, Eichler W, Marx M, Sievers HH (2010) Leukocyte depletion during cardiopulmonary bypass in routine adult cardiac surgery. *Interact Cardiovasc Thorac Surg* **12**: 207-212
39. Heinze H, Eichler W, Karsten J, Sedemund-Adib B, Heringlake M, Meier T (2011) Functional residual capacity-guided alveolar recruitment strategy after endotracheal suctioning in cardiac surgery patients. *Crit Care Med* **17** (Epub ahead of print)

40. Iblher P, Mahler H, Heinze H, Hüppe M, Klotz KF, Eichler W (2011). Does music harm patients after cardiac surgery? A randomized controlled study. *Appl Cardiopulm Pathophysiol* **15**: 14-23
41. Iblher P, Paarmann H, Stuckert K, Werner A, Klotz KF, Eichler W. (2013) Interstitial fluid shifts in simulated long-haul flights monitored by a miniature ultrasound device. *Aviat Space Environ Med* **84**: 486–490
42. Breuer G, Ahlers O, Beckers S, Breckwoldt J, Eichler W et al (2015) Nationaler Lernzielkatalog „Anästhesiologie“ mit fachspezifischen Aspekten der Bereiche Intensivmedizin, Notfall- und Schmerzmedizin. *Anästh Intensivmed* **56**: 546-558