

Originalarbeiten

1. Hempel P, Klein V, Michely A, Böll S, **Rieg AD**, Spillner J, Braunschweig T, von Stillfried S, Wagner N, Martin C, Tenbrock K, Verjans E. Amitriptyline inhibits bronchoconstriction and directly promotes dilation of the airways. **Respir Res.** 2023 Oct 31;24(1):262. doi: 10.1186/s12931-023-02580-6. PMID: 37907918. **Impact 5.8**
2. Ooms M, Schooß R, Winnand P, Heitzer M, Hölzle F, Bickenbach J, **Rieg A**, Modabber A. Influence of perioperative blood pressure regulation on postoperative delirium in patients undergoing head and neck free flap reconstruction. **Eur J Med Res.** 2023 Sep 22;28(1):365. doi: 10.1186/s40001-023-01367-1. **Impact 4.9**
3. Grottke O, **Rieg A**, Ulmer F, Hein M. Bleeding management: rFVIIIFc in hemophilia A and liver transplantation. **Anaesthesiologie.** 2023 Aug 10. doi: 10.1007/s00101-023-01320-1. **Impact 1.1**
4. Mark Ooms, **Annette D. Rieg**, Ali Modabber. Identification of risk factors for postoperative delirium in patients following intraorally reconstruction with microvascular free flaps: a matched-pair analysis. **Int J Oral Maxillofac Surg: In press.** **Impact 2.7**
5. Puladi B, Ooms M, Rieg A, Taubert M, Rashad A, Hölzle F, Röhrlig R, Modabber A. Development of machine learning and multivariable models for predicting blood transfusion in head and neck microvascular reconstruction for risk-stratified patient blood management. **Head Neck.** 2023 April 18. doi: 10.1002/hed.27353. **Impact 3.8**
6. **Annette D. Rieg**, Said Suleiman, Carolin Anker, Nina A. Bünting, Eva Verjans, Jan Spillner, Sebastian Kalverkamp, Saskia von Stillfried, Till Braunschweig, Stefan Uhlig, Christian Martin. Platelet-derived growth factor (PDGF)-BB regulates the airway tone via activation of MAP2K, thromboxane, actin polymerisation and via Ca²⁺-sensitisation, thromboxane and actin polymerisation. **Respir Res.** 2022 Jul 15;23(1):189. doi: 10.1186/s12931-022-02101. **Impact 7.1**
7. Michael Veldeman, Hani Ridwan, Dimah Hasan, **Annette Rieg**, Hans Clusmann, Gerrit Alexander Schubert. Ocular Trauma with Ophthalmic Artery Injury as a Rare Cause of Subarachnoid Hemorrhage - a Case Report and Review of the Literature. **Acta Neurochirurgica** 2021 Jun 7. doi:

- 10.1055/s-0041-1725956. Online ahead of print. PMID: 34100268
8. **Annette D. Rieg**, Said Suleiman, Nina A. Bünting, Eva Verjans, Jan W. Spillner, Sebastian Kalverkamp, Heike Schnöring, Thomas Schröder, Saskia von Stillfried, Till Braunschweig, Gereon Schälte, Stefan Uhlig and Christian Martin. Levosimendan reduces segmental pulmonary vascular resistance in isolated perfused rat lungs and relaxes human pulmonary vessels. **PLoS One.** 2020 May 18;15(5):e0233176. doi: 10.1371/journal.pone.0233176. PloS ONE. **Impact 2.7**
9. Svenja Böll, Sebastian Ziemann, Kim Ohl, Patricia Klemm, **Annette D. Rieg**, Erich Gulbins, Katrin Anne Becker, Markus Kamler, Norbert Wagner, Stefan Uhlig, Christian Martin, Klaus Tenbrock, Eva Verjans. Acid sphingomyelinase regulates TH2 cytokine release and bronchial asthma. **Alergy.** 2019 Sep 8. doi: 10.1111/all.14039. **Impact 6.771**
10. **Annette D. Rieg**, Nina A. Bünting, Christian Cranen, Said Suleiman, Jan W. Spillner, Heike Schnöring, Thomas Schröder, Saskia von Stillfried, Till Braunschweig, Paul W. Manley, Gereon Schälte, Rolf Rossaint, Stefan Uhlig and Christian Martin. Tyrosine kinase inhibitors relax pulmonary arteries from mice and men. **Respir Res.** 2019 Jun 6;20(1):111 doi: 10.1186/s12931-019-1074-2. **Impact 3.8**
11. **Rieg AD** [72-year-old female with left-sided tibial plateau fracture and wound on the right lower leg: Preparation for the medical specialist examination: part 12]. **Anaesthetist** 2019 Apr; 68(Suppl 2):131-135. doi: 10.1007/s00101-019-0558-2. **Impact: 0.964**
12. Said Suleiman, Sergej Klassen, Ira Katz, Galina Balakirski, Julia Krabbe, Saskia von Stillfried, Svetlana Kintsler, Till Braunschweig, Aaron Babendreyer, Jan Spillner, Sebastian Kalverkamp, Thomas Schröder, Manfred Moeller, Mark Coburn, Stefan Uhlig, Christian Martin* and **Annette D Rieg*** (*contributed equally). Argon reduces the pulmonary vascular tone in rats and humans by GABA-receptor activation. **Sci Rep (2019)** 9:1902 https://doi.org/10.1038/s41598-018-38267-y **Impact 4.87**
13. Eva Verjans, Stephanie Kanzler, Kim Ohl, **Annette Rieg**, Nadine Ruske; Angela Schippers, Norbert Wagner, Klaus Tenbrock, Stefan Uhlig, Christian Martin. Initiation of LPS-induced pulmonary dysfunction and its recovery occur independent of T cells. **BMC Pulm Med** 2018 Nov 22;18(1):174. doi: 10.1186/s12890-018-0741-2. **Impact 2.9**
14. **Annette D. Rieg**, Said Suleiman, Carolin Anker, Eva Verjans, Rolf Rossaint, Stefan Uhlig, Christian

- Martin. PDGF-BB regulates the pulmonary vascular tone: Impact of prostaglandins, Calcium, MAPK- and PI3K/AKT/mTOR signalling in pulmonary veins of guinea pigs. **Respir Res.** 2018 Jun 19;19(1):120. doi: 10.1186/s12931-018-0829-5. **Impact 3.751**
- 15.** Kezze I, Zoremba N, Rossaint R, **Rieg A**, Coburn M, Schälte G. A Systematic Review of the Risks and Prevention of Surgical Fires. **Anaesthesia** 2018 Jun 67(6):426-447. doi: 10.1007/s00101-018-0445-2. **Impact: 0.964**
- 16.** Krabbe J, Ruske N, Braunschweig T, Kintsler S, Spillner JW, Schröder T, Kalverkamp S, Kanzler S, **Rieg AD**, Uhlig S and Martin C. The effects of hydroxyethyl starch and gelatin on pulmonary cytokine production and oedema formation. **Sci Rep.** 2018 Mar 23;8(1):5123. doi: 10.1038/s41598-018-23513-0. **Impact 4.87**
- 17.** Krabbe J, Esser A, Kanzler S, Braunschweig T, Kintsler S, Spillner J, Schröder T, Kalverkamp S, Balakirski G, Gerhards B, **Rieg AD**, Kraus T, Brand P, Martin C. The effects of zinc- and copper-containing welding fumes on murine, rat and human precision-cut lung slices. **J Trace Elem Med Biol.** 2018. March 10. DOI: 10.1016/j.jtemb.2018.03.008 **Impact 2.55**
- 18.** **Rieg AD**, Coburn M, Schälte G, Rossaint R, Schubert GA, Marx G und Schulze-Steinen H: Die aneurysmatisch bedingte Subarachnoidalblutung: Update - Teil I. **Anästh Intensivmed** 2017;58 481-494. DOI: 10.19224/ai2017.481 **Impact 2**
- 19.** **Rieg AD**, Coburn M, Schälte G, Rossaint R, Schubert GA, Marx G und Schulze-Steinen H: Die aneurysmatisch bedingte Subarachnoidalblutung: Update - Teil II. **Anästh Intensivmed** 2017;58 549-554. DOI: 10.19224/ai2017.549 **Impact 2**
- 20.** **Rieg AD**, Dortgolz A, Macko S, Rossaint R und Schälte G. Fallbericht und Übersicht über die Literatur: *In situ* abgebrochene 27 Gauge Spinalnadel bei einer Re-Re-Sectio. **Anaesthesia** 2017 Jan 24. doi: 10.1007/s00101-017-0266-8. **Impact: 0.964**
- 21.** Nina A. Maihöfer, Said Suleiman, Daniela Dreymüller, Paul W. Manley, Rolf Rossaint, Stefan Uhlig, Christian Martin*, **Annette D. Rieg*** (*contributed equally). Imatinib relaxes the pulmonary venous bed of guinea pigs. **Respir Res.** 2017 Feb 8;18(1):32. doi: 10.1186/s12931-017-0514-0. **Impact 3.751**
- 22.** Walid Albanna, Miriam Weiss, Marguerite Müller, Marc Alexander Brockmann, **Annette Rieg**,

Catharina Conzen, Hans Clusmann, Anke Höllig, Gerrit Alexander Schubert. Endovascular rescue therapies for refractory vasospasm after subarachnoid hemorrhage - A prospective evaluation study using multimodal, continuous event neuromonitoring. **Neurosurgery** 2017 Feb 13. doi: 10.1093/Impact 3.78

- 23.** Schälte G, Bomhard LT, Rossaint R, Coburn M, Stoppe C, Zoremba N, **Rieg A** (2016). Layperson mouth-to-mask ventilation using a modified I-gel laryngeal mask after brief onsite instruction: a feasibility trial in the manikin. **BMJ Open**. Impact 2.27
- 24.** Schröder H, Zoremba N, Rossaint R; Deusser K, Stoppe C, Coburn M, **Rieg A**, Schälte G. Intubation performance using different laryngoscopes while wearing chemical protection equipment – a manikin study. **BMJ Open**. 2016;6:3 e010250. Impact: 2.27
- 25.** Verjans E, Ohl K, Reiss LK, Vanwijk F, Toncheva A, Wiener A, Yu Y, **Rieg A**, Gaertner V, Rothj, Knol EF, Kabesch M, Wagner N, Uhlig S, Martin C, Tenbrock K. The cAMP response element modulator regulates T_H2 mediated inflammation. **Oncotarget**. 2015 Nov 17;6(36):38538-51. Impact 6.36
- 26.** **Rieg AD**, Suleiman S, Perez-Bouza A, Braunschweig T, Spillner JW, Schröder T, Verjans E, Schälte G, Rossaint R, Uhlig S, Martin C (2014). Milrinone relaxes pulmonary veins in guinea pigs and humans. **PLoS ONE** 9(1): e87685. doi:10.1371/journal.pone.0087685. Impact: 4.24
- 27.** **Rieg AD**, Rossaint R, Verjans E, Maihöfer NA, Uhlig S, Martin C (2013) Levosimendan Relaxes Pulmonary Arteries and Veins in Precision-Cut Lung Slices - The Role of K_{ATP}-Channels, cAMP and cGMP. **PLoS ONE** 8(6): e66195. doi:10.1371/journal.pone.0066195. Impact: 4.24
- 28.** **Rieg AD** (2013) Comments on: role of the prone position in severe ARDS. **Der Anästhesist**. 2013 Oct;62(10):845-6. Impact: 0.847
- 29.** Schälte G, Stoppe Ch, Gilles L, Heuser M, Rex S, Coburn M, Zoremba N, Rossaint R and **Rieg A**. Does a 4 diagram manual enable laypersons to operate the Laryngeal Mask Supreme®? A pilot study in the manikin. **Scand J Trauma Resusc Emerg Med**. 2012 Mar 27;20(1):21 Impact: 2.18
- 30.** **Rieg AD**, Stoppe Ch, Coburn M, Hein M, Rossaint R and Schälte G. EzPAP® therapy of postoperative hypoxemia in the recovery room: Experiences with the new compact system of end-expiratory positive airway pressure. **Der Anästhesist**. 2012 Oct;61(10):867-74. Impact: 0.847
- 31.** Schlepütz M, **Rieg AD**, Seehase S, Spillner J, Perez-Bouza A, Braunschweig T, Schroeder T, Bernau

M, Lambermont V, Schlumbohm C, Sewald Katherina, Autschbach R, Braun A, Kramer BW, Uhlig S, Martin C. Neurally mediated airway constriction in human and other species. A comparative study using precision-cut lung slices (PCLS). **PLoS ONE** 2012; 7(10):e47344. doi: 10.1371/journal.pone.0047344. **Impact: 4.24**

- 32.** Schälte G, Stoppe C, Rossaint R, Heuser M, Gilles L, Schwarz M, Coburn M, Zoremba N, **Rieg A**. Following on-site instructions for operating Laryngeal Mask Supreme™ and Laryngeal Tube™ as an alternative to mouth-to-mouth ventilation in layperson CPR: a randomized trial in the manikin. **J Anesth Clin Res** 2012; 3:265. **Impact: 1.0**
- 33.** Grottke O, Braunschweig T, Spronk HM, Esch S, **Rieg AD**, van Oerle R, Ten Cate H, Fitzner C, Tolba R, Rossaint R. Increasing concentrations of prothrombin complex concentrate induce DIC in a pig model of coagulopathy with blunt liver injury. **Blood** 2011, Aug 18;118(7):1943-51 **Impact: 10.558**
- 34.** Honickel M*, **Rieg A***, Rossaint R, Braunschweig T, Spronk HM, Ten Cate H, van Oerle R, Tolba R, Grottke O. Prothrombin complex concentrate reduces blood loss and enhances thrombin generation in a pig model with blunt liver injury under severe hypothermia. **Thromb Haemost**. 2011 Oct;106(4):724-33 (* both authors contributed equally). **Impact: 5.439**
- 35.** **Rieg AD**, Rossaint R, Uhlig S, Martin C. Cardiovascular Agents Affect the Tone of Pulmonary Arteries and Veins in Precision-Cut Lung Slices. **PLoS ONE** 2011; 6(12): e29698. doi:10.1371/journal.pone.0029698. **Impact: 4.24**
- 36.** **Rieg AD**, Grottke O, Schälte G, Spillner J, Autschbach R, Rossaint R, Hein M. Recombinant activated factor VII as a reversal agent in severe bleeding of a cardiac surgical patient with HIT syndrome and prior argatroban therapy. Case report. **Chirurgia** 2011; October 24(5): 283-86. **No impact**
- 37.** **Rieg AD**, Schroth SC, Grottke O, Hein M, Ackermann D, Rossaint R, Schälte G. Influence of temperature on the positive inotropic effect of levosimendan, dobutamine and milrinone. **Eur J Anaesthesiol**. 2009 Nov;26(11):946-5