

PERSONAL INFORMATION **Steffen Rex**

WORK EXPERIENCE

- May 1998-December 2000 **Resident**
Department of Anesthesiology, Dr. Horst Schmidt Kliniken Wiesbaden (Germany)
- February 2000-September 2006 **Resident**
Department of Anesthesiology, University Hospitals of the RWTH Aachen (Germany)
- September 2006-August 2011 **Senior staff member**
Department of Anesthesiology, University Hospitals of the RWTH Aachen (Germany)
- September 2011-December 2021 **Adjunct clinical head**
Department of Anesthesiology, University Hospitals Leuven (Belgium)
- January 2022- Present **Head of Department**
Department of Anesthesiology, University Hospitals Leuven (Belgium)

EDUCATION AND TRAINING

- September 1991-April 1998 **Medical doctor**
Philipps University Marburg (Germany)

ADDITIONAL INFORMATION

Expertise
Publications

Original contributions

1. Devroe S, Devriese L, Debuck F, Fieuws S, Cools B, Gewillig M, Van de Velde M, Rex S. Effect of xenon and dexmedetomidine as adjuncts for general anesthesia on postoperative emergence delirium after elective cardiac catheterization in children: study protocol for a randomized, controlled, pilot trial. *Trials*. 2020 Apr 3;21(1):310. doi: 10.1186/s13063-020-4231-5. (IF publication year: 1.975)
2. Van Grootven B, Jeuris A, Jonckers M, Devriendt E, Dierckx de Casterle B, Dubois C, Fagard K, Herregods MC, Hornikx M, Meuris B, Rex S, Tournoy J, Milisen K, Flamaing J, Deschodt M. Predicting hospitalisation-associated functional decline in older patients admitted to a cardiac care unit with cardiovascular disease: a prospective cohort study. *BMC Geriatr*. 2020 Mar 20;20(1):112. doi: 10.1186/s12877-020-01510-1. (IF publication year: 2.818)
3. Eerdeken GJ, Rex S, Mesotten D. Accuracy of Blood Glucose Measurement and Blood Glucose Targets. *J Diabetes Sci Technol*. 2020 Feb 11:1932296820905581. doi: 10.1177/1932296820905581. Online ahead of print. (IF publication year: 3.32)
4. Al Tmimi L, Verbrugghe P, Van de Velde M, Meuris B, Meyfroidt G, Milisen K, Fieuws S, Rex S. Intraoperative xenon for prevention of delirium after on-pump cardiac surgery: a randomised, observer-blind, controlled clinical trial. *Br J Anaesth*. 2020 Jan 28:S0007-0912(19)31025-6. doi: 10.1016/j.bja.2019.11.037. Online ahead of print. (IF publication year: 6.199)
5. Stragier H, Dubois C, Verbrugghe P, Jacobs S, Adriaenssens T, Rex S. General Anesthesia Versus Monitored Anesthesia Care for Transfemoral Transcatheter Aortic Valve Implantation: A Retrospective Study in a Single Belgian Referral Center. *J Cardiothorac Vasc Anesth*. 2019 Dec;33(12):3283-3291. doi: 10.1053/j.jvca.2019.06.027. Epub 2019 Jun 23. (IF publication year: 1.882)

6. Van der Veecken L, Van der Merwe J, Devroe S, Inversetti A, Galgano A, Bleeser T, Meeusen R, Rex S, Deprest J. Maternal surgery during pregnancy has a transient adverse effect on the developing fetal rabbit brain. *Am J Obstet Gynecol.* 2019 Oct;221(4):355.e1-355.e19. doi: 10.1016/j.ajog.2019.07.029. Epub 2019 Jul 20. (IF publication year: 6.120)
7. Devroe S, Lemiere J, Rex S. The effect of xenon-augmented sevoflurane-anaesthesia on intra-operative haemodynamics and postoperative neurocognitive function in children undergoing cardiac catheterization: a one-year follow up of a randomized controlled pilot trial. *Paediatr Anaesth.* 2019 Sep;29(9):963-964. doi: 10.1111/pan.13696. (IF publication year: 2.389)
8. Devroe S, Bleeser T, Van de Velde M, Verbrugge L, De Buck F, Deprest J, Devlieger R, Rex S. Anesthesia for non-obstetric surgery during pregnancy in a tertiary referral center: a 16-year retrospective, matched case-control, cohort study. *Int J Obstet Anesth. Int J Obstet Anesth.* 2019 Aug;39:74-81. (IF publication year: 3.404)
9. Winterhalter M, Rex S, Stoppe C, Kienbaum P, Muller HH, Kaufmann I, Kuppe H, Dongas A, Zwissler B; ILOCARD Investigators. Effect of iloprost inhalation on postoperative outcome in high-risk cardiac surgical patients: a prospective randomized-controlled multicentre trial (ILOCARD). *Can J Anaesth.* 2019 Aug;66(8):907-920. (IF publication year: 3.377)
10. Brouckaert J, Verleden SE, Verbelen T, Coosemans W, Decaluwe H, De Leyn P, Depypere L, Naftoux P, Van Veer H, Meyns B, Rega F, Van De Velde M, Poortmans G, Rex S, Neyrinck A, Van den Berghe G, Vlasselaers D, Van Cleemput J, Budts W, Vos R, Quarck R, Belge C, Delcroix M, Verleden GM, Van Raemdonck D. Double-lung versus heart-lung transplantation for precapillary pulmonary arterial hypertension: a 24-year single-center retrospective study. *Transpl Int.* 2019 Jul;32(7):717-729. (IF publication year: 3.196)
11. Teunkens A, Vermeulen K, Peters M, Fieuws S, Van de Velde M, Rex S. Bupivacaine infiltration in children for postoperative analgesia after tonsillectomy: A randomised controlled study. *Eur J Anaesthesiol.* 2019 2019 Mar;36(3):206-214 (IF publication year: 3.979)
12. Colombo MA, Napolitani M, Boly M, Gosseries O, Casarotto S, Rosanova M, Brichtant JF, Boveroux P, Rex S, Laureys S, Massimini M, Chierigato A, Sarasso S. The spectral exponent of the resting EEG indexes the presence of consciousness during unresponsiveness induced by propofol, xenon, and ketamine. *Neuroimage.* 2019 Jan 10. pii: S1053-8119(19)30024-2 (IF publication year: 5.426)
13. Van Keer JM, Vanassche T, Droogne W, Rex S, Rega F, Van Cleemput J, Verhamme P. Idarucizumab for the reversal of dabigatran in patients undergoing heart transplantation. *Eur J Heart Fail.* 2019 Jan;21(1):129-131 (IF publication year: 10.683)
14. Akhtar MI, Momeni M, Szekely A, Hamid M, El Tahan MR, Rex S. Multicenter International Survey on the Clinical Practice of Ultra-Fast-Track Anesthesia with On-Table Extubation in Pediatric Congenital Cardiac Surgery. *J Cardiothorac Vasc Anesth.* 2019 Feb;33(2):406-415 (IF publication year: 1.882)
15. Van Hese L, Al Tmimi L, Devroe S, Sanders RD, Fieuws S, Rex S. Neuroprotective properties of xenon in different types of CNS injury. *Br J Anaesth.* 2018 Dec; 121(6): 1365-1368 (IF publication year: 6.238)
16. Teunkens A, Van de Velde M, Vermeulen K, Van Loon P, Bogaert G, Fieuws S, Rex S. Dorsal penile nerve block for circumcision in pediatric patients: A prospective, observer-blinded, randomized controlled clinical trial for the comparison of ultrasound-guided vs landmark technique. *Paediatr Anaesth.* 2018 Aug;28(8):703-709 (IF publication year: 2.389)
17. Dewinter G, Coppens S, Van de Velde M, D'Hoore A, Wolthuis A, Cuypers E, Rex S. Quadratus Lumborum Block Versus Perioperative Intravenous Lidocaine for Postoperative Pain Control in Patients Undergoing Laparoscopic Colorectal Surgery: A Prospective, Randomized, Double-blind Controlled Clinical Trial. *Ann Surg.* 2018 Jul 12 [Epub ahead of print] (IF publication year: 8.980)
18. Devroe S, Lemiere J, Van Hese L, Gewillig M, Boshoff D, Poesen K, Van de Velde M, Rex S. The effect of xenon-augmented sevoflurane anesthesia on intraoperative hemodynamics and early postoperative neurocognitive function in children undergoing cardiac catheterization: A randomized controlled pilot trial. *Paediatr Anaesth.* 2018 Aug;28(8):726-738 (IF publication year: 2.389)
19. De Deken J*, Rex S*, Lerut E, Martinet W, Monbaliu D, Pirenne J, Jochmans I. Postconditioning effects of argon or xenon on early graft function in a porcine model of kidney autotransplantation. *Br J Surg.* 2018 Jul;105(8):1051-1060 (IF publication year: 5.899) [* = both authors contributed equally]
20. Stoppe C, Averdunk L, Goetzenich A, Soppert J, Marlier A, Kraemer S, Vieten J, Coburn M, Kowark A, Kim BS, Marx G, Rex S, Ochi A, Leng L, Moeckel G, Linkermann A, El Bounkari O, Zarbock A, Bernhagen J, Djurdjaj S, Bucala R, Boor P. The protective role of macrophage migration inhibitory factor in acute kidney injury after cardiac surgery. *Sci Transl Med.* 2018 May 16;10(441)

(IF publication year: 16.796)

21. Hendrikx J, Van Raemdonck D, Pirenne J, Fieuws S, Rex S. Outcome of transplantation performed outside the regular working hours: A systematic review and meta-analysis of the literature. *Transplant Rev* 2018 Jul;32(3):168-177
22. Van Grootven B, McNicoll L, Mendelson DA, Friedman SM, Fagard K, Milisen K, Flamaing J, Deschodt M; G-COACH consortium. Quality indicators for in-hospital geriatric co-management programmes: a systematic literature review and international Delphi study. *BMJ Open*. 2018 Mar 16;8(3):e020617 (IF publication year: 2.369)
23. Dewinter G, Staelens W, Veef E, Teunkens A, Van de Velde M, Rex S. Simplified algorithm for the prevention of postoperative nausea and vomiting: a before-and-after study. *Br J Anaesth*. 2018 Jan;120(1):156-163 (IF publication year: 6.238)
24. Coburn M, Sanders RD, Maze M, Nguyen-Pascal ML, Rex S, Garrigues B, Carbonell JA, Garcia-Perez ML, Stevanovic A, Kienbaum P, Neukirchen M, Schaefer MS, Borghi B, van Oven H, Tognu A, Al Tmimi L, Eyrolle L, Langeron O, Capdevila X, Arnold GM, Schaller M, Rossaint R; HIPELD Study Investigators. The hip fracture surgery in elderly patients (HIPELD) study to evaluate xenon anaesthesia for the prevention of postoperative delirium: a multicentre, randomized clinical trial. *Br J Anaesth*. 2018 Jan;120(1):127-137. (IF publication year: 6.238)
25. Teunkens A, Vanhaecht K, Vermeulen K, Fieuws S, Van de Velde M, Rex S, Bruyneel L. Measuring satisfaction and anesthesia related outcomes in a surgical day care centre: A three-year single-centre observational study. *J Clin Anesth*. 2017 Dec;43:15-23. (IF publication year: 1.677)
26. Devroe S, Meeusen R, Gewillig M, Cools B, Poesen K, Sanders R, Rex S.: Xenon as an adjuvant to sevoflurane anesthesia in children younger than 4 years of age, undergoing interventional or diagnostic cardiac catheterization: A randomized controlled clinical trial. *Paediatr Anaesth*. 2017 Dec;27(12):1210-1219. (IF publication year: 2.254)
27. Van Grootven B, Flamaing J, Dierckx de Casterle B, Dubois C, Fagard K, Herregods MC, Hornikx M, Laenen A, Meuris B, Rex S, Tournoy J, Milisen K, Deschodt M.: Effectiveness of in-hospital geriatric co-management: a systematic review and meta-analysis. *Age Ageing*. 2017 Nov 1;46(6):903-910. (IF publication year: 4.282)
28. Al Tmimi L, Devroe S, Dewinter G, Van de Velde M, Poortmans G, Meyns B, Meuris B, Coburn M, Rex S.: Xenon as an Adjuvant to Propofol Anesthesia in Patients Undergoing Off-Pump Coronary Artery Bypass Graft Surgery: A Pragmatic Randomized Controlled Clinical Trial. *Anesth Analg*. 2017 Oct;125(4):1118-1128 (IF publication year: 4.014)
29. Ghijssels I, Himpe D, Rex S: Safety of gelatin solutions for the priming of cardiopulmonary bypass in cardiac surgery: a systematic review and meta-analysis. *Perfusion*. 2017 Jul;32(5):350-362. (IF publication year: 1.442)
30. Hoogma DF, Rex S, Van de Velde M, Coppens S: Efficacy of adductor canal block in total knee arthroplasty: a systematic review. *Acta Anaesth. Belg*. 2017, 68, 63-71.
31. Dewinter G, Moens P, Fieuws S, Vanaudenaerde B, Van de Velde M, Rex S.: Systemic lidocaine fails to improve postoperative morphine consumption, postoperative recovery and quality of life in patients undergoing posterior spinal arthrodesis. A double-blind, randomized, placebo-controlled trial. *Br J Anaesth*. 2017 Apr 1;118(4):576-585 (IF publication year: 6.238)
32. Teunkens A, Cootjans K, Vermeulen K, Peters M, Van de Velde M, Rex S.: Intraoperative administered tramadol reduces the need for piritramide in the immediate postoperative period in children undergoing adenotonsillectomy: A retrospective observational study. *Acta Anaesth. Belg.*, 2016, 67, 175-181
33. Al Tmimi L, Van de Velde M, Meyns B, Meuris B, Sergeant P, Milisen K, Pottel H, Poesen K, Rex S: Serum protein S100 as marker of postoperative delirium after off-pump coronary artery bypass surgery: secondary analysis of two prospective randomized controlled trials. *Clin Chem Lab Med*. 2016 Oct 1;54(10):1671-80. (IF publication year: 3.017)
34. Teunkens A, Vermeulen K, Van Gerven E, Fieuws S, Van de Velde M, Rex S: Comparison of 2-Chloroprocaine, Bupivacaine, and Lidocaine for Spinal Anesthesia in Patients Undergoing Knee Arthroscopy in an Outpatient Setting: A Double-Blind Randomized Controlled Trial. *Reg Anesth Pain Med*. 2016 Sep-Oct;41(5):576-83. (IF publication year: 3.459)
35. De Deken J*, Rex S*, Monbaliu D, Pirenne J, Jochmans I: The Efficacy of Noble Gases in the Attenuation of Ischemia Reperfusion Injury: A Systematic Review and Meta-Analyses. *Crit Care Med*. 2016 Sep;44(9):e886-96. (IF publication year: 7.442) [* = both authors contributed equally]
36. Dewinter GB, Teunkens A, Vermeulen K, Al Tmimi L, Van de Velde M, Rex S: Systemic Lidocaine Fails to Improve Postoperative Pain, But Reduces Time to Discharge Readiness in Patients Undergoing Laparoscopic Sterilization in Day-Case Surgery: A Double-Blind, Randomized,

- Placebo-Controlled Trial. *Reg Anesth Pain Med*. 2016 May-Jun;41(3):362-7. (IF publication year: 3.459)
37. Dewinter G, Teunkens A, Vermeulen K, Devroe S, Van Hemelrijck J, Meuleman C, Vergote I, Fieuws S, Van de Velde M, Rex S: Alizapride and ondansetron for the prevention of postoperative nausea and vomiting in patients undergoing laparoscopic gynaecological surgery: A double-blind, randomised, placebo-controlled noninferiority study. *Eur J Anaesthesiol*. 2016 Feb;33(2):96-103. (IF publication year: 2.942)
38. Maas EH, Pieters BM, Van de Velde M, Rex S: General or local anesthesia for TAVI? A systematic review of the literature and meta-analysis. *Curr Pharm Des*. 2016;22(13):1868-78 (IF publication year: 3.452)
39. Sarasso S, Boly M, Napolitani M, Gosseries O, Charland-Verville V, Casarotto S, Rosanova M, Casali AG, Brichant JF, Boveroux P, Rex S, Tononi G, Laureys S, Massimini M.: Consciousness and Complexity during Unresponsiveness Induced by Propofol, Xenon, and Ketamine. *Curr Biol*. 2015 Dec 7;25(23):3099-105. (IF publication year: 9.571)
40. Kopp R, Dommann K, Rossaint R, Schalte G, Grottko O, Spillner J, Rex S, Marx G: Tissue oxygen saturation as an early indicator of delayed lactate clearance after cardiac surgery: a prospective observational study. *BMC Anesthesiol*. 2015 Oct 30;15(1):158. (IF publication year: 1.375)
41. Whitlock RP, Devereaux PJ, Teoh KH, Lamy A, Vincent J, Pogue J, Paparella D, Sessler DI, Karthikeyan G, Villar JC, Zuo Y, Avezum A, Quantz M, Tagarakis GI, Shah PJ, Abbasi SH, Zheng H, Pettit S, Chrolavicius S, Yusuf S; SIRS Investigators: Methylprednisolone in patients undergoing cardiopulmonary bypass (SIRS): a randomised, double-blind, placebo-controlled trial. *Lancet*. 2015 Sep 26;386(10000):1243-53. (IF publication year: 45.217)
42. Al Tmimi L, Van de Velde M, Herijgers P, Meyns B, Meyfroidt G, Milisen K, Fieuws S, Coburn M, Poesen K, Rex S: Xenon for the prevention of postoperative delirium in cardiac surgery: study protocol for a randomized controlled clinical trial. *Trials*. 2015 Oct 9;16(1):449 (IF publication year: 1.73)
43. Al Tmimi L, Van Hemelrijck J, Van de Velde M, Sergeant P, Meyns B, Missant C, Jochmans I, Poesen K, Coburn M, Rex S: Xenon anaesthesia for patients undergoing off-pump coronary artery bypass graft surgery: a prospective randomized controlled pilot trial. *Br J Anaesth*. 2015 Oct;115(4):550-9 (IF publication year: 4.853)
44. Stoppe C*, Rex S*, Goetzenich A, Kraemer S, Emontzpoehl C, Soppert J, Averdunk L, Sun Y, Rossaint R, Lue H, Huang C, Song Y, Pantouris G, Lolis E, Leng L, Schulte W, Bucala R, Weber C, Bernhagen J.: Interaction of MIF Family Proteins in Myocardial Ischemia/Reperfusion Damage and Their Influence on Clinical Outcome of Cardiac Surgery Patients. *Antioxid Redox Signal*. 2015 Oct 10;23(11):865-79 [* = both authors contributed equally] (IF publication year: 7.407)
45. Cowie B, Kluger R, Rex S, Missant C.: The relationship between pulmonary artery acceleration time and mean pulmonary artery pressure in patients undergoing cardiac surgery: An observational study. *Eur J Anaesthesiol*. 2015 Jul 29. (IF publication year: 2.942)
46. Cowie B, Kluger R, Rex S, Missant C.: Noninvasive estimation of left atrial pressure with transesophageal echocardiography. *Ann Card Anaesth*. 2015 Jul-Sep;18(3):312-6
47. Cowie BS, Kluger R, Rex S, Missant C.: The relationship between superior vena cava diameter and collapsibility and central venous pressure. *Anaesth Intensive Care*. 2015 May;43(3):357-60 (IF publication year: 1.296)
48. Devroe S, Lemiere J, Van de Velde M, Gewillig M, Boshoff D, Rex S.: Safety and feasibility of xenon as an adjuvant to sevoflurane anaesthesia in children undergoing interventional or diagnostic cardiac catheterization: study protocol for a randomised controlled trial. *Trials*. 2015 Mar 4;16:74 (IF publication year: 1.73)
49. Cowie B, Kluger R, Rex S, Missant C.: The utility of transoesophageal echocardiography for estimating right ventricular systolic pressure. *Anaesthesia*. 2015 Mar;70(3):258-63. (IF publication year: 3.846)
50. Dewinter G, de Velde MV, Fieuws S, D'Hoore A, Rex S.: Transversus abdominis plane block versus perioperative intravenous lidocaine versus patient-controlled intravenous morphine for postoperative pain control after laparoscopic colorectal surgery: study protocol for a prospective, randomized, double-blind controlled clinical trial. *Trials*. 2014 Dec 4;15:476-483 (IF publication year: 1.73).
51. Hollig A, Schug A, Fahlenkamp AV, Rossaint R, Coburn M, Argon Organo-Protective Network AON: Argon: Systematic Review on Neuro- and Organoprotective Properties of an "Inert" Gas. *Int J Mol Sci*. 2014 Oct 10;15(10):18175-18196 (IF publication year: 2.339)

52. Stoppe C, McDonald B, Rex S, Manzanares W, Whitlock R, Fremes S, Fowler R, Lamarche Y, Meybohm P, Haberthur C, Rossaint R, Goetzenich A, Elke G, Day A, Heyland DK: SodiUm SeleniTe Administration IN Cardiac Surgery (SUSTAIN CSX(R)-trial): study design of an international multicenter randomized double-blinded controlled trial of high dose sodium-selenite administration in high-risk cardiac surgical patients. *Trials* 2014 Aug 28;15(1):339. [Epub ahead of print] (IF publication year: 2.12)
53. Stevanovic A, Coburn M, Menon A, Rossaint R, Heyland D, Schalte G, Werker T, Wonisch W, Kiehnopf M, Goetzenich A, Rex S*, Stoppe C*: The importance of intraoperative selenium blood levels on organ dysfunction in patients undergoing off-pump cardiac surgery: a randomised controlled trial. *PLoS One* 2014 Aug 13;9(8): e104222. [* = both authors contributed equally] (IF publication year: 3.73)
54. Goetzenich A, Kraemer S, Rossaint R, Bleilevens C, Dollo F, Siry L, Rajabi-Alampour S, Beckers C, Soppert J, Lue H, Rex S, Bernhagen J, Stoppe C: The Role of Macrophage Migration Inhibitory Factor in Anesthetic-Induced Myocardial Preconditioning. *PLoS ONE* 2014; 9(3): e92827 (IF publication year: 3.73)
55. Metzelder SM, Coburn M, Stoppe C, Fries M, Simon TP, Reinges MH, Hollig A, Rossaint R, Marx G, Rex S.: Accuracy and precision of calibrated arterial pulse contour analysis in patients with subarachnoid hemorrhage requiring high-dose vasopressor therapy: a prospective observational clinical trial. *Crit Care* 2014 Feb 5;18(1):R25 (IF publication year: 4.72)
56. Scheithauer S, Rosarius A, Rex S, Post P, Heisel H, Krizanovic V, Schulze-Robbecke R, Rossaint R, Lemmen SW.: Improving hand hygiene compliance in the anesthesia working room work area: More than just more hand rubs. *Am J Infect Control*. 2013 Nov;41(11):1001-6 (IF publication year: 2.73)
57. Schluter T, Winz O, Henkel K, Prinz S, Rademacher L, Schmaljohann J, Dautzenberg K, Cumming P, Kumakura Y, Rex S, Mottaghy FM, Grunder G, Vernaleken I.: The Impact of Dopamine on Aggression: An [18F]-FDOPA PET Study in Healthy Males. *J Neurosci*. 2013 Oct 23;33(43):16889-96 (IF publication year: 6.91)
58. Stoppe C, Fahlenkamp AV, Rex S, Veeck NC, Gozdowsky SC, Schalte G, Autschbach R, Rossaint R, Coburn M.: Feasibility and safety of xenon compared with sevoflurane anaesthesia in coronary surgical patients: a randomized controlled pilot study. *Br J Anaesth*. 2013 Sep;111(3):406-16 (IF publication year: 4.24)
59. Stoppe C, Werker T, Rossaint R, Dollo F, Lue H, Wonisch W, Menon A, Goetzenich A, Kopp R, Bruells C, Coburn M, Bucala R, Bernhagen J, Rex S.: What is the significance of perioperative release of macrophage migration inhibitory factor in cardiac surgery? *Antioxid Redox Signal*. 2013 Jul 20;19(3):231-239. Epub 2013 Jan 9 (IF publication year: 7.19)
60. Stoppe C, Rimek A, Rossaint R, Rex S, Stevanovic A, Schalte G, Fahlenkamp A, Czaplík M, Bruells CS, Daviet C, Coburn M.: Xenon consumption during general surgery: a retrospective observational study. *Med Gas Res*. 2013 Jun 11;3(1):12
61. Sopka SA, Biermann H, Rossaint R, Rex S, Jager M, Skorning M, Heussen N, Beckers SK.: Resuscitation training in small-group setting -- gender matters. *Scand J Trauma Resusc Emerg Med*. 2013 Apr 16;21(1):30 (IF publication year: 1.68)
62. Stoppe C, Spillner J, Rossaint R, Coburn M, Schalte G, Wildenhues A, Marx G, Rex S.: Selenium blood concentrations in patients undergoing elective cardiac surgery and receiving perioperative sodium selenite administration. *Nutrition* 2013 Jan;29(1):158-65 (IF publication year: 2.86)
63. Stoppe C, Grieb G, Rossaint R, Simons D, Coburn M, Goetzenich A, Strussmann T, Pallua N, Bernhagen J, Rex S: High postoperative blood levels of macrophage migration inhibitory factor are associated with less organ dysfunction in patients after cardiac surgery. *Mol Med*. 2012 Jul 18;18(1):843-50 (IF publication year: 4.47)
64. Kiefer N, Hofer CK, Marx G, Geisen M, Giraud R, Siegenthaler N, Hoeft A, Bendjelid K, Rex S: Clinical validation of a new thermodilution system for the assessment of cardiac output and volumetric parameters. *Crit Care*. 2012 May 30;16(3):R98 (IF publication year: 4.72)
65. Stoppe C, Fries M, Rossaint R, Grieb G, Coburn M, Simons D, Brucken D, Bernhagen J, Pallua N, Rex S: Blood levels of macrophage migration inhibitory factor after successful resuscitation from cardiac arrest. *PLoS One*. 2012;7(4):e33512 (IF publication year: 3.73)
66. Schoeler M, Loetscher PD, Rossaint R, Fahlenkamp AV, Eberhardt G, Rex S, Weis J, Coburn M: Dexmedetomidine is neuroprotective in an in vitro model for traumatic brain injury. *BMC Neurol*. 2012 Apr 11;12:20 (IF publication year: 2.56)

67. Fries M, Brucken A, Cizen A, Westerkamp M, Lower C, Deike-Glindemann J, Schnorrenberger NK, Rex S, Coburn M, Nolte KW, Weis J, Rossaint R, Derwall M: Combining xenon and mild therapeutic hypothermia preserves neurological function after prolonged cardiac arrest in pigs. *Crit Care Med.* 2012 Apr;40(4):1297-303 (IF publication year: 6.12)
68. Schalte G, Stoppe C, Rossaint R, Gilles L, Heuser M, Rex S, Coburn M, Zoremba N, Rieg A: Does a 4 diagram manual enable laypersons to operate the laryngeal mask supreme(R)? A pilot study in the manikin. *Scand J Trauma Resusc Emerg Med.* 2012 Mar 27;20(1):21 (IF publication year: 1.68)
69. Kuhn J, Janouschek H, Raptis M, Rex S, Lenartz D, Neuner I, Mottaghy FM, Schneider F, Schaefer WM, Sturm V, Grunder G, Vernaleken I: In vivo evidence of deep brain stimulation-induced dopaminergic modulation in Tourette's syndrome. *Biol Psychiatry.* 2012 Mar 1;71(5):e11-3 (IF publication year: 9.25)
70. Stoppe C, Peters D, Fahlenkamp AV, Cremer J, Rex S, Schalte G, Rossaint R, Coburn M: aepEX monitor for the measurement of hypnotic depth in patients undergoing balanced xenon anaesthesia. *Br J Anaesth.* 2012 Jan;108(1):80-8 (IF publication year: 4.24)
71. Schalte G, Stoppe C, Aktas M, Coburn M, Rex S, Schwarz M, Rossaint R, Zoremba N: Laypersons can successfully place supraglottic airways with 3 minutes of training. A comparison of four different devices in the manikin. *Scand J Trauma Resusc Emerg Med.* 2011 Oct 24;19:60 (IF publication year: 1.85)
72. Schalte G, Scheid U, Rex S, Coburn M, Fiedler B, Rossaint R, Zoremba N: The use of the Airtraq(R) optical laryngoscope for routine tracheal intubation in high-risk cardio-surgical patients. *BMC Res Notes* 2011 Oct 19;4:425
73. Stoppe C, Schalte G, Rossaint R, Coburn M, Graf B, Spillner J, Marx G, Rex S: The intraoperative decrease of selenium is associated with the postoperative development of multiorgan dysfunction in cardiac surgical patients. *Critical Care Medicine* 2011 Aug;39(8):1879-85 (IF publication year: 6.33)
74. Missant C, Rex S, Claus P, Derde S, Wouters PF: Thoracic epidural anaesthesia disrupts the protective mechanism of homeometric autoregulation during right ventricular pressure overload by cardiac sympathetic blockade: a randomised controlled animal study. *Eur J Anaesthesiol.* 2011 Jul;28(7):535-43 (IF publication year: 2.23)
75. Spillner J, Amerini A, Hatam N, Rex S, Pott F, Goetzenich A, Menon A, Repas T, Steiner F, Autschbach R, Carpi A, Oster O: Pulmono-atrial shunt and lung assist to treat right ventricular failure. *Front Biosci.* 2011 Jun 1;17:2342-51 (IF publication year: 3.52)
76. Metzelder S, Coburn M, Fries M, Reinges M, Reich S, Rossaint R, Marx G, Rex S: Performance of cardiac output measurement derived from arterial pressure waveform analysis in patients requiring high-dose vasopressor-therapy. *British Journal of Anaesthesia* 2011 Jun;106(6):776-84. Epub 2011 Mar 25 (IF publication year: 4.24)
77. Schaefer W, Meyer PT, Rossaint R, Baumert J-H, Coburn M, Fries M, Rex S: Myocardial Blood Flow during General Anesthesia with Xenon in Humans: A Positron Emission Tomography Study. *Anesthesiology* 2011 Jun;114(6):1373-9 (IF publication year: 5.36)
78. Cremer J, Stoppe C, Fahlenkamp AV, Schalte G, Rex S, Rossaint R, Coburn M: Early cognitive function, recovery and well-being after sevoflurane and xenon anaesthesia in the elderly: a double-blinded randomized controlled trial. *Med Gas Res.* 2011 May 18;1(1):9
79. Bickenbach J, Fries M, Rex S, Stitz C, Heussen N, Rossaint R, Marx G, Dembinski R: Outcome and mortality risk factors in long-term treated ICU patients: a retrospective analysis. *Minerva Anesthesiol.* 2011 Apr;77(4):427-38 (IF publication year: 2.66)
80. Fahlenkamp AV, Krebber F, Rex S, Grottko O, Fries M, Rossaint R, Coburn M: Bispectral index monitoring during balanced xenon or sevoflurane anaesthesia in elderly patients. *Eur J Anaesthesiol.* 2010 Oct;27(10):906-11 (IF publication year: 1.68)
81. Missant C, Claus P, Rex S, Wouters PF: Differential effects of lumbar and thoracic epidural anaesthesia on the haemodynamic response to acute right ventricular pressure overload. *British Journal of Anaesthesia* 2010; 104(2):143-9 (IF publication year: 4.22)
82. Roertgen D, Kloos J, Fries M, Grottko O, Rex S, Rossaint R, Coburn M: Comparison of early cognitive function and recovery after desflurane or sevoflurane anaesthesia in the elderly: a double-blinded randomized controlled trial. *British Journal of Anaesthesia* 2010; 104(2):167-74 (IF publication year: 4.22)
83. Rossaint J, Rossaint R, Weis J, Fries M, Rex S, Coburn M: Propofol: neuroprotection in an in vitro model of traumatic brain injury. *Crit Care* 2009;13(2):R61 (IF publication year: 4.93)

84. Beckers S, Rex S, Kopp R, Bickenbach J, Sopka S, Rossaint R, Dembinski R: Intensivmedizin als Bestandteil des Pflicht-Curriculums. Evaluation eines Pilot-Curriculums am Universitätsklinikum Aachen. (Intensive care medicine as a component of the compulsory medical curriculum. Evaluation of a pilot curriculum at the University Hospital Aachen). *Anaesthetist* 2009; 58(3):273-4 (IF publication year: 0.89)
85. de Waal EE, Rex S, Kruitwagen CL, Kalkman CJ, Buhre WF: Dynamic preload indicators fail to predict fluid responsiveness in open-chest conditions. *Critical Care Medicine* 2009; 37(2):510-5 (IF publication year: 6.37)
86. Rex S, Missant C, Claus P, Buhre W, Wouters PF: Effects of inhaled iloprost on right ventricular contractility, right ventriculo-vascular coupling and ventricular interdependence: a randomized placebo-controlled trial in an experimental model of acute pulmonary hypertension. *Critical Care* 2008; 12(5): R113 (IF publication year: 4.55)
87. Fries M, Nolte KW, Coburn M, Rex S, Timper A, Kottmann K, Siepmann K, Hausler M, Weis J, Rossaint R: Xenon reduces neurohistopathological damage and improves the early neurological deficit after cardiac arrest in pigs. *Critical Care Medicine* 2008; 36(8):1886 -1891 (IF publication year: 6.59)
88. Fries M, Ince C, Rossaint R, Bleilevens C, Bickenbach J, Rex S, Mik E: Levosimendan but not norepinephrine improves microvascular oxygenation during experimental septic shock. *Critical Care Medicine* 2008; 36(6):1886 -1891 (IF publication year: 6.59)
89. Rex S, Meyer PT, Baumert J-H, Rossaint R, Fries M, Bull U, Schaefer W: Positron Emission Tomography Study of Regional Cerebral Blood Flow and Flow-Metabolism Coupling during General Anaesthesia with Xenon in Humans. *British Journal of Anaesthesia* 2008; 100(5):667-75 (IF publication year: 2.92)
90. * Missant C, * Rex S, Claus P, Mertens L, Wouters PF: Load-sensitivity of regional tissue deformation in the right ventricle: isovolumic versus ejection-phase indices of contractility. *Heart* 2008; 94(4):e15-e21. Epub 2007 Aug 8 [* = both authors contributed equally] (IF publication year: 4.96)
91. Missant C, Rex S, Wouters PF: Accuracy of cardiac output measurements with pulse contour analysis (PulseCO) and Doppler echocardiography during off-pump coronary artery bypass grafting. *European Journal of Anaesthesiology* 2008 Mar;25(3):243-8. Epub 2007 Nov 9 (IF publication year: 1.55)
92. Rex S, Missant C, Segers P, Rossaint R, Wouters PF: Epoprostenol treatment of acute pulmonary hypertension is associated with a paradoxical decrease in right ventricular contractility. *Intensive Care Medicine* 2008 Jan; 34(1):179-189 (IF publication year: 5.06)
93. Rex S, Schaelte G, Metzelder S, Flier S, de Waal EE, Autschbach R, Rossaint R, Buhre W: Inhaled iloprost to control pulmonary artery hypertension in patients undergoing mitral valve surgery: a prospective, randomized-controlled trial. *Acta Anaesthesiologica Scandinavica* 2008; 52(1):65-72 (IF publication year: 1.95)
94. Rex S, Schaelte G, Schroth S, de Waal EE, Metzelder S, Overbeck Y, Rossaint R, Buhre W: Limitations of arterial pulse pressure variation and left ventricular stroke volume variation in estimating cardiac pre-load during open heart surgery. *Acta Anaesthesiologica Scandinavica* 2007; 51(9):1258-67. Epub 2007 Aug (IF publication year: 1.72)
95. de Waal EE, Kalkman CJ, Rex S, Buhre WF: Validation of a new arterial pulse contour-based cardiac output device. *Critical Care Medicine* 2007; 35(8):1904-1909 (IF publication year: 6.28)
96. * Missant C, * Rex S, Segers P, Wouters PF: Levosimendan improves right ventriculovascular coupling in a porcine model of right ventricular dysfunction. *Critical Care Medicine* 2007; 35(3):707-715 [* = both authors contributed equally] (IF publication year : 6.28)
97. Rex S, Missant C, Segers P, Wouters PF: Thoracic epidural anesthesia impairs the hemodynamic response to acute pulmonary hypertension by deteriorating right ventricular-pulmonary arterial coupling. *Critical Care Medicine* 2007; 35(1):222-229 (IF publication year: 6.28)
98. Rex S, Schaefer W, Meyer PT, Rossaint R, Boy C, Setani K, Bull U, Baumert JH: Positron emission tomography study of regional cerebral metabolism during general anesthesia with xenon in humans. *Anesthesiology* 2006; 105(11):936-943 (IF publication year: 4.21)
99. Leather HA, Ama' R, Missant C, Rex S, Rademakers FE, Wouters PF: Longitudinal but not circumferential deformation reflects global contractile function in the right ventricle with open pericardium. *American Journal of Physiology - Heart and Circulatory Physiology* 2006; 290(6):H2369-H2375 (IF publication year: 3.72)

100. Rex S, Brose S, Metzelder S, de Rossi L, Schroth S, Autschbach R, Rossaint R, Buhre W: Normothermic beating heart surgery with assistance of miniaturized bypass systems: the effects on intraoperative hemodynamics and inflammatory response. *Anesthesia & Analgesia* 2006; 102(2):352-362 (IF publication year: 2.13)
101. Rex S, Scholz M, Weyland A, Busch T, Schorn B, Buhre W: Intra- and extravascular volume status in patients undergoing mitral valve replacement: crystalloid vs. colloid priming of cardiopulmonary bypass. *European Journal of Anaesthesiology* 2006; 23(1):1-9 (IF publication year: 1.17)
102. Rex S, Brose S, Metzelder S, Huneke R, Schalte G, Autschbach R, Rossaint R, Buhre W: Prediction of fluid responsiveness in patients during cardiac surgery. *British Journal of Anaesthesia* 2004 Dec; 93(6):782-788 (IF publication year: 2.47)
103. Schulz-Stubner S, Krings T, Meister IG, Rex S, Thron A, Rossaint R: Clinical hypnosis modulates functional magnetic resonance imaging signal intensities and pain perception in a thermal stimulation paradigm. *Regional Anesthesia and Pain Medicine* 2004 Nov-Dec; 29(6):549-556 (IF publication year: 1.6)
104. Christiansen S, Demircan L, Kwant PB, Akdis M, Rex S, Buhre W, Langebartels G, Kuruc N, Nikolin S, Reul H, Autschbach R: Experimental testing of a new left ventricular assist device--the microdiagonal blood pump. *American Society for Artificial Internal Organs Journal* 2004 May-Jun; 50(3):200-204 (IF publication year: 1.05)
105. de Rossi LW, Brueckmann M, Rex S, Barderschneider M, Buhre W, Rossaint R: Xenon and isoflurane differentially modulate lipopolysaccharide-induced activation of the nuclear transcription factor KB and production of tumor necrosis factor-alpha and interleukin-6 in monocytes. *Anesthesia & Analgesia* 2004; 98(4):1007-12 (IF publication year: 2.18)
106. Clement HW, Buschmann J, Rex S, Grote C, Opper C, Gemsa D, Wesemann W: Effects of interferon-gamma, interleukin-1 beta, and tumor necrosis factor-alpha on the serotonin metabolism in the nucleus raphe dorsalis of the rat. *Journal of Neural Transmission* 1997; 104(10):981-991 (IF publication year: 1.65)

Non-systematic reviews

1. Carlier L, Devroe S, Budts W, Van Calsteren K, Rega F, Van de Velde M, Rex S. Cardiac interventions in pregnancy and peripartum - a narrative review of the literature. *J Cardiothorac Vasc Anesth.* 2019 Dec 18;S1053-0770(19)31275-3. doi: 10.1053/j.jvca.2019.12.021. Online ahead of print. (IF publication year: 1.882)
2. Coppens SJR, Zawodny Z, Dewinter G, Neyrinck A, Balocco AL, Rex S. In search of the Holy Grail: Poisons and extended release local anesthetics. *Best Pract Res Clin Anaesthesiol.* 2019 Mar;33(1):3-21. (IF publication year: 0.706)
3. Devroe S and Rex S. REFRESHER KNOWLEDGE: NEUROCOGNITIVE EFFECTS OF ANAESTHESIA IN THE NEONATE AND GERIATRIC PATIENT *Regional Anesthesia and Pain Medicine* Volume 43, Number 7, Supplement 1, October 2018 (ESRA8-0578) (IF publication year: 3.515)
4. Van Raemdonck D, Rega F, Rex S, Neyrinck A. Machine perfusion of thoracic organs. *J Thorac Dis.* 2018 Apr;10(Suppl 8):S910-S923 (IF publication year: 2.365)
5. Rex S. *The Pediatric Cardiac Anesthesia Handbook.* *Anesth Analg.* 2018 Jan 5 (IF publication year: 4.014)
6. Saugel B, Bendjelid K, Critchley LA, Rex S, Scheeren TW. Journal of Clinical Monitoring and Computing 2016 end of year summary: cardiovascular and hemodynamic monitoring. *J Clin Monit Comput.* 2017 Feb;31(1):5-17. (IF publication year: 1.891)
7. Farmakis D, Alvarez J, Gal TB, Brito D, Fedele F, Fonseca C, Gordon AC, Gotsman I, Grossini E, Guarracino F, Harjola VP, Hellman Y, Heunks L, Ivancan V, Karavidas A, Kivikko M, Lomivorotov V, Longrois D, Masip J, Metra M, Morelli A, Nikolaou M, Papp Z, Parkhomenko A, Poelzl G, Pollesello P, Ravn HB, Rex S, Riha H, Ricksten SE, Schwinger RH, Vrtovec B, Yilmaz MB, Zielinska M, Parissis J: Levosimendan beyond inotropy and acute heart failure: Evidence of pleiotropic effects on the heart and other organs: An expert panel position paper. *Int J Cardiol.* 2016 Nov 1;222:303-12. (IF publication year: 4.036)
8. Nieminen MS, Buerke M, Cohen-Solal A, Costa S, Edes I, Erlikh A, Franco F, Gibson C, Gorjup V, Guarracino F, Gustafsson F, Harjola VP, Husebye T, Karason K, Katsytadze I, Kaul S, Kivikko M, Marenzi G, Masip J, Matskeplishvili S, Mebazaa A, Moller JE, Nessler J, Nessler B, Ntalianis A, Oliva F, Pichler-Cetin E, Poder P, Recio-Mayoral A, Rex S, Rokyta R, Strasser RH, Zima E,

- Pollesello P: The role of levosimendan in acute heart failure complicating acute coronary syndrome: A review and expert consensus opinion. *Int J Cardiol.* 2016 Sep 1;218:150-7. (IF publication year: 4.036)
9. Rex S, Devroe S: Anesthesia for pregnant women with pulmonary hypertension. *Curr Opin Anaesthesiol.* 2016 Jun;29(3):273-81. (IF publication year: 1.916)
10. Bendjelid K, Rex S, Scheeren T, Saugel B: Journal of Clinical Monitoring and Computing 2015 end of year summary: cardiovascular and hemodynamic monitoring. *J Clin Monit Comput.* 2016 Apr;30(2):129-39. (IF publication year: 1.819)
11. Van Biesen S, Van de Velde M, Rex S: Anesthesia and neurotoxicity in the developing brain: A non-systematic review. *Acta Anaesthesiol Belg.* 2015;66(3):67-79.
12. Devroe S, Van de Velde M, Rex S: General anesthesia for caesarean section. *Curr Opin Anaesthesiol.* 2015 Jun;28(3):240-6 (IF publication year: 1.979)
13. Toller W, Heringlake M, Guarracino F, Algotsson L, Alvarez J, Argyriadou H, Ben-Gal T, Cerny V, Cholley B, Eremenko A, Guerrero-Orrriach JL, Jarvela K, Karanovic N, Kivikko M, Lahtinen P, Lomivorotov V, Mehta RH, Music S, Pollesello P, Rex S, Riha H, Rudiger A, Salmenpera M, Szudi L, Tritapepe L, Wyncoll D, Owall A.: Preoperative and perioperative use of levosimendan in cardiac surgery: European expert opinion. *Int J Cardiol.* 2015 Apr 1;184:323-36. (IF publication year: 6.175)
14. Bendjelid K, Rex S, Scheeren T, Critchley L.: Year in review in journal of clinical monitoring and computing 2014: cardiovascular and hemodynamic monitoring. *J Clin Monit Comput.* 2015 Apr;29(2):203-7 (IF publication year: 1.448)
15. Rex S, Kraemer S, Grieb G, Emontzphohl C, Soppert J, Goetzenich A, Rossaint R, Bernhagen J, Stoppe C.: The role of macrophage migration inhibitory factor in critical illness. *Mini Rev Med Chem.* 2014;14(14):1116-24 (IF publication year: 3.186)
16. Ghijselings I, Rex S: Hydroxyethyl starches in the perioperative period. A review on the efficacy and safety of starch solutions. *Acta Anaesth. Belg.* 2014; 65(1):9-22
17. Hofer CK, Rex S, Ganter MT: Update on minimally invasive hemodynamic monitoring in thoracic anesthesia. *Curr Opin Anaesthesiol.* 2014 Feb;27(1):28-35 (IF publication year: 2.4)
18. Rex S: Anesthesia for transcatheter aortic valve implantation: an update. *Curr Opin Anaesthesiol.* 2013 Aug;26(4):456-66 (IF publication year: 2.4)
19. Rex S: Burn injuries. *Curr Opin Crit Care* 2012 Dec;18(6):671-6 (IF publication year: 2.97)
20. Rex S, Marx G: Therapie der akuten Herzinsuffizienz. *Anasth Intensivmed* 2012;53:610-631 (IF publication year: 0.5)
21. Coburn M, Sanders RD, Ma D, Fries M, Rex S, Magalon G, Rossaint R.: Argon: the 'lazy' noble gas with organoprotective properties. *Eur J Anaesthesiol.* 2012 Dec;29(12):549-51 (IF publication year: 2.79)
22. Rex S: Postoperative management of patients undergoing left ventricular assist device implantation. *Anesthesiol Intensivmed Notfallmed Schmerzther.* 2011 Jun;46(6):424-31 (IF publication year: 0.41)
23. Brucken A, Coburn M, Rex S, Rossaint R, Fries M: Current developments in xenon research. Importance for anesthesia and intensive care medicine. *Anaesthesist.* 2010 Oct;59(10):883-95 (IF publication year: 0.73)
24. Metzelder S, de Waal EEC, Buhre W, Rex S: Minimal-invasives hamodynamisches Monitoring - Toy or tool? *Intensivmed* 2010; 47:354-361
25. Rex S, de Waal EEC, Buhre W: Perioperatives hamodynamisches Monitoring. *ANASTHESIOLOGIE & INTENSIVMEDIZIN* 2010; 51:160-177 (IF publication year: 0.77)
26. Derwall M, Coburn M, Rex S, Hein M, Rossaint R, Fries M: Xenon: recent developments and future perspectives. *Minerva Anesthesiol.* 2009 Jan-Feb;75:37-45 (IF publication year: 1.61)
27. Schalte G, Rex S, Henzler D: Atemwegsmanagement. *Anaesthesist* 2007; 56(8):837-857 (IF publication year: 0.78)
28. Rex S: Anästhesie in der Augenheilkunde. *Anaesthesist* 2001; 50(10):798-813 (IF publication year: 0.78)
29. Rex S, Max M: Anästhesie in der Mund-Kiefer-Gesichtschirurgie. *Anaesthesist* 2001; 50(3):207-223 (IF publication year: 0.78)

Editorials

1. Raemdonck DV, Vos R, Cleemput JV, Rega F, Rex S, Neyrinck A, Verleden GM. Restoring Blood Supply to the Heart While Replacing the Lungs: Is It Worth the Risk? *Transplantation.* 2019

- Oct;103(10):1986-1987. doi: 10.1097/TP.0000000000002610. (IF publication year: 3.960)
2. Jozwiak M, Rex S, Bendjelid K. Boosting systemic pressure with phenylephrine: arterial or venous modulation? *J Clin Monit Comput*. 2018 Dec;32(6):967-968. (IF publication year: 2.45)
 3. Siegler BH, Bernhard M, Brenner T, Gerlach H, Henrich M, Hofer S, Kilger E, Kruger WA, Lichtenstern C, Mayer K, Muller M, Niemann B, Oppert M, Rex S, Rossaint R, Weiterer S, Weigand MA.: CVP - farewell? Please don't!: Comments on the S3 guidelines on "intravascular volume therapy in adults". *Anaesthesist*. 2015 Jul;64(7):489-93 (IF publication year: 0.757)
 4. Rex S: Continuous measurement of cardiac output using pulse-contour analysis: truly beat-to-beat? *J Clin Monit Comput*. 2015 Jun;29(3):319-21 (IF publication year: 1.985)
 5. Rex S: Blind in the right eye?: Perioperative management of high risk cardiac patients. *Anaesthesist* 2012 Jul;61(7):572-3 (IF publication year: 0.85)
 6. Rex S: Wann ist genug genug oder sogar zu viel? *Anaesthesist* 2011 Apr; 60(4):290-1 (IF publication year: 0.99)
7. Rex S: Ist weniger immer mehr? Modalitäten des erweiterten hämodynamischen Monitorings bei Einlungenventilation. *Anaesthesist* 2009; 58(11):1081-1082 (IF publication year: 0.89)
 8. Buhre W, Rex S: Is continuous really continuous? *Critical Care Medicine* 2008; 36(2):628-630 (IF publication year: 6.59)

Case reports / Letters

1. Carlier L, Muller J, Debaveye Y, Verelst S, Rex S. Successful use of VV-ECMO in a pregnant patient with severe ARDS. *Turk J Emerg Med*. 2019 May 15;19(3):111-112.
2. Coppens S, Rex S, Dewinter G. Response to: Borglom, Gogenur and Bendtsen. *Ann Surg*. 2018 Dec 20. doi: 10.1097/SLA.0000000000003160. [Epub ahead of print] (IF publication year: 9.203)
3. Mufty H, Rex S, Fourneau I, Maleux G. Echocardiography-Guided False Lumen Catheterization for "Cheese-Wire" Technique in Complicated Type A Aortic Dissection. *Ann Vasc Surg*. 2018 Nov 23. pii: S0890-5096(18)30853-7. doi: 10.1016/j.avsg.2018.08.085. [Epub ahead of print] (IF publication year: 1.363)
4. De Brabandere K, Voigt JU, Rex S, Meuris B, Verbrugghe P. Aortic and mitral valve repair for anterior mitral leaflet perforation caused by severe aortic regurgitation. *J Vis Surg*. 2018 May 11;4:99
5. Siegler BH, Rex S, Rossaint R, Weigand MA.: Reply to: the central venous pressure, and 'a plea for some common-sense'. *Eur J Anaesthesiol*. 2018 Apr;35(4):322-323 (IF publication year: 3.570)
6. Vanneste B, Van de Velde M, Struys MMRF, Rex S: Acute and life-threatening remifentanyl overdose resulting from the misuse of a syringe pump. *Acta Anaesth. Belg*. 2017, 68, 87-89
7. Siegler BH, Rex S, Rossaint R, Weigand MA.: Is the central venous pressure an obsolescent model or a valuable puzzle stone in haemodynamic monitoring? *Eur J Anaesthesiol*. 2017 Jun;34(6):396-397. (IF publication year: 3.570)
8. Van Dijck C, Rex S, Verguts J, Timmerman D, Van de Velde M, Teunkens A.: Venous Air Embolism during Hysteroscopic Myomectomy: An Analysis of 7 Cases. *Gynecol Obstet Invest*. 2017 Jan 4. (IF publication year: 1.61)
9. Siegler BH, Bernhard M, Brenner T, Gerlach H, Henrich M, Hofer S, John S, Kilger E, Kruger WA, Lichtenstern C, Mayer K, Muller M, Niemann B, Oppert M, Rex S, Rossaint R, Weiterer S, Weigand MA: Central venous pressure - a safety parameter. *Anaesthesist*. 2015 Dec;64(12):977-980 (IF publication year: 0.757)
10. Hoogma D, Meyns B, Van Raemdonck D, Van de Velde M, Missant C, Rex S.: Anesthetic Management for Resection of Bilateral Pulmonary Artery Sarcoma. *A&A Case Rep*. 2015 Aug 15;5(4):64-8.
11. Stoppe C, Cremer J, Rex S, Schalte G, Fahlenkamp AV, Rossaint R, Rosch R, Bauerschlag DO, Coburn M: Xenon anaesthesia for laparoscopic cholecystectomy in a patient with multiple chemical sensitivity. *Br J Anaesth*. 2011 Oct;107(4):645-7 (IF publication year: 4.24)
12. Hergarten T, Schuerholz T, Rex S: Quiz intensiv. *Anesthesiol Intensivmed Notfallmed Schmerzther* 2009; 44(10):665-666 (IF publication year: 0.2)
13. Brulls CS, Dembinski R, Jacobs MJ, Mahnken AH, Rossaint R, Rex S: Fatal Necrotic Pancreatitis as a Rare Complication After Thoracoabdominal Aortic Surgery. *Journal of Cardiothoracic and Vascular Anesthesia* 2009 Dec;23(6):926-9 (IF publication year: 1.06)
14. de Waal EE, Rex S, Kruitwagen CL, Kalkman CJ, Buhre WF: Stroke volume variation obtained with FloTrac/Vigileo fails to predict fluid responsiveness in coronary artery bypass graft patients. *British Journal of Anaesthesia* 2008;100(5):725-6 (IF publication year: 2.92)

15. Rex S, Busch T, Vettelschoss M, de Rossi L, Rossaint R, Buhre W: Intraoperative management of severe pulmonary hypertension during cardiac surgery with inhaled iloprost. *Anesthesiology* 2003 Sep; 99(3):745-747 (IF publication year: 3.5)

16. Rex S: Anästhesie in der Augenheilkunde - Erwiderung. *Anaesthesist* 2003; 50(10): 466 (IF publication year: 0.98)

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