

LIST OF PUBLICATIONS

JOHANNES WACKER, MD, MPH

TOTAL PUBLICATIONS: 47

INVITED REVIEW ARTICLES: 7

Wacker J. Measuring and monitoring perioperative patient safety: a basic approach for clinicians. *Current opinion in anaesthesiology*. 2020;33(6):815-822.

Preckel, B., Staender, S., Arnal, D., Brattebo, G., Feldman, J. M., Ffrench-O'Carroll, R., Fuchs-Buder, T., Goldhaber-Fiebert, S. N., Haller, G., Haugen, A. S., Hendrickx, J. F. A., Kalkman, C. J., Meybohm, P., Neuhaus, C., Ostergaard, D., Plunkett, A., Schuler, H. U., Smith, A. F., Struys, M., Subbe, C. P., **Wacker, J.**, Welch, J., Whitaker, D. K., Zacharowski, K., Mellin-Olsen, J. Ten years of the Helsinki Declaration on patient safety in anaesthesiology: An expert opinion on peri-operative safety aspects. *Eur J Anaesthesiol*. 2020;37(7):521-610.

Wacker J, Kolbe M. The challenge of learning from perioperative patient harm. *Trends in Anaesthesia and Critical Care*. 2016;7-8:5-10.

Wacker J, Kolbe M. Leadership and teamwork in anesthesia – Making use of human factors to improve clinical performance. *Trends in Anaesthesia and Critical Care*. 2014 12//;4(6):200-5

Wacker J, Staender S. The role of the anesthesiologist in perioperative patient safety. *Current opinion in anaesthesiology*. 2014 Dec;27(6):649-56. PubMed PMID: 25233191. PMCID: 4232292.

Wacker J, Pasch T, Schaub MC, Zaugg M. [Strategies for perioperative sympatho-modulation]. *Anaesthesist*. 2005 Apr;54(4):303-18. PubMed PMID: 15744445. Epub 2005/03/04. Perioperative Strategien zur Regulierung des Sympathikotonus.

Zaugg M, Schulz C, **Wacker J**, Schaub MC. Sympatho-modulatory therapies in perioperative medicine. *Br J Anaesth*. 2004 Jul;93(1):53-62. PubMed PMID: 15145819. Epub 2004/05/18.

ORIGINAL INVESTIGATIONS: 21; AS FIRST OR LAST AUTHOR: 5

Wu HHL, Lewis SR, Cikkelola M, **Wacker J**, Smith AF. Patient safety and the role of the Helsinki Declaration on Patient Safety in Anaesthesiology: A European survey. *Eur J Anaesthesiol*. 2019 Dec;36(12):946-54.

Wacker J, Zwahlen M. Uncertain progress in Swiss perioperative mortality 1998-2014 for 22 operation groups. *Swiss medical weekly*. 2019 Mar 11;149:w20034. PubMed PMID: 30905062. Epub 2019/03/25

Wacker J, Steurer J, Manser T, Leisinger E, Stocker R, Mols G. Perceived barriers to computerised quality documentation during anaesthesia: a survey of anaesthesia staff. *BMC anesthesiology*. 2015;15:13. PubMed PMID: 25971791. PMCID: 4429922.

Kolbe M, Grote G, Waller MJ, **Wacker J**, Grande B, Burtscher MJ, et al. Monitoring and Talking to the Room: Autochthonous Coordination Patterns in Team Interaction and Performance. *The Journal of applied psychology*. 2014 Sep 15. PubMed PMID: 25222522.

Kolbe M, Grote G, Burtscher MJ, **Wacker J**, Manser T, Nohynkova R, et al. In response. *Anesth Analg*. 2013 May;116(5):1184-6. PubMed PMID: 23738351.

Kolbe M, Burtscher MJ, **Wacker J**, Grande B, Nohynkova R, Manser T, et al. Speaking up is related to better team performance in simulated anesthesia inductions: an observational study. *Anesth Analg*. 2012 Nov;115(5):1099-108. PubMed PMID: 23011565.

Burtscher MJ, Manser T, Kolbe M, Grote G, Grande B, Spahn DR, **Wacker J** Adaptation in anaesthesia team coordination in response to a simulated critical event and its relationship to clinical performance. *Br J Anaesth*. 2011 Jun;106(6):801-6. PubMed PMID: 21429954.

- Burtscher MJ, Kolbe M, **Wacker J**, Manser T. Interactions of team mental models and monitoring behaviors predict team performance in simulated anesthesia inductions. *Journal of experimental psychology Applied*. 2011 Sep;17(3):257-69. PubMed PMID: 21942315.
- Kunzle B, Zala-Mezo E, **Wacker J**, Kolbe M, Spahn DR, Grote G. Leadership in anaesthesia teams: the most effective leadership is shared. *Qual Saf Health Care*. 2010 Dec;19(6):e46. PubMed PMID: 20472572.
- Maurer K, **Wacker J**, Vastani N, Seifert B, Spahn DR. Changes in axonal excitability of primary sensory afferents with general anaesthesia in humans. *Br J Anaesth*. 2010 Nov;105(5):648-56. PubMed PMID: 20729532. Epub 2010/08/24.
- Künzle B, Zala-Mezö E, Kolbe M, **Wacker J**, Grote G. Substitutes for leadership in anaesthesia teams and their impact on leadership effectiveness. *European Journal of Work and Organizational Psychology*. 2010;19(5):505-31.
- Burtscher MJ, **Wacker J**, Grote G, Manser T. Managing Nonroutine Events in Anesthesia: The Role of Adaptive Coordination. *Human Factors: The Journal of the Human Factors and Ergonomics Society*. 2010;52(2):282-94.
- Lucchinetti E, Zeisberger SM, Baruscotti I, **Wacker J**, Feng J, Zaugg K, et al. Stem cell-like human endothelial progenitors show enhanced colony-forming capacity after brief sevoflurane exposure: preconditioning of angiogenic cells by volatile anesthetics. *Anesth Analg*. 2009 Oct;109(4):1117-26. PubMed PMID: 19762739. Epub 2009/09/19
- Neukom L, **Wacker J**, Spahn DR, Maurer K, editors. 193 PROPOFOL CHANGES EXCITABILITY OF PRIMARY SENSORY AFFERENTS. *European Journal of Pain*; 2009 2009/09/01: John Wiley & Sons, Ltd.
- Lucchinetti E, **Wacker J**, Maurer C, Keel M, Harter L, Zaugg K, et al. Helium breathing provides modest antiinflammatory, but no endothelial protection against ischemia-reperfusion injury in humans in vivo. *Anesth Analg*. 2009 Jul;109(1):101-8. PubMed PMID: 19535699.
- Zala-Mezo E, **Wacker J**, Kunzle B, Bruesch M, Grote G. The influence of standardisation and task load on team coordination patterns during anaesthesia inductions. *Qual Saf Health Care*. 2009 Apr;18(2):127-30; 1 p following 30. PubMed PMID: 19342527.
- Wacker J**, Lucchinetti E, Jamnicki M, Aguirre J, Harter L, Keel M, et al. Delayed inhibition of agonist-induced granulocyte-platelet aggregation after low-dose sevoflurane inhalation in humans. *Anesth Analg*. 2008 Jun;106(6):1749-58. PubMed PMID: 18499605.
- Zaugg M, Bestmann L, **Wacker J**, Lucchinetti E, Boltres A, Schulz C, et al. Adrenergic Receptor Genotype but Not Perioperative Bisoprolol Therapy May Determine Cardiovascular Outcome in At-risk Patients Undergoing Surgery with Spinal BlockThe Swiss Beta Blocker in Spinal Anesthesia (BBSA) Study: A Double-blinded, Placebo-controlled, Multicenter Trial with 1-Year Follow-up. *Anesthesiology*. 2007;107(1):33-44.
- Wacker J**, Wijesundera D, Karkouti K, Beattie S. Withdrawal of beta blockers and risks of perioperative MI. *Canadian Journal of Anesthesia*. 2006 2006/01/01;53(1):26452-.
- Zala-Mezö E, Künzle B, **Wacker J**, Grote G. [Cooperation in anesthesia teams as seen by the team members] Zusammenarbeit in Anästhesieteams aus Sicht der Teammitglieder. *Z ARB WISS*. 2004 (58/3):199-206.
- Imhof HG, **Wacker J**, Kach K, Platz A, Trentz O. [Computerized tomography follow-up in the acute phase after craniocerebral trauma]. *Helv Chir Acta*. 1993 Sep;60(1-2):195-200. PubMed PMID: 8226055.
- Computertomographische Verlaufskontrollen in der Akutphase nach Schadel-Hirn-Traumen.

BOOK CHAPTERS: 4

- Wacker J**. Sicherheitskultur in der perioperativen Medizin – alle Ziele erreicht? In: Eckert J, Jaeger K, Möllhoff T (Eds.): *Anästhesiologie - Kompendium und Repetitorium zur Weiter- und Fortbildung*. Landsberg am Lech: ecomed MEDIZIN; 2017. p. 1-14.

- Staender S, **Wacker J**, Kolbe M. Ausbildung im Thema „Patientensicherheit“ – Fachkräfte früh für eine Sicherheitskultur sensibilisieren. In: Gausmann P, Henninger M, Koppenberg J, editors. Patientensicherheitsmanagement. Berlin/Boston: Walter de Gruyter GmbH; 2015. p. 370-6.
- Kolbe M, Künzle B, Zala-Mezö E, **Wacker J**, Grote G. Measuring coordination behaviour in anaesthesia teams during induction of general anaesthetics. In: Flin R, Mitchell L, editors. Safer surgery: analysing behavior in the operating theatre. Farnham, Surrey, UK: Ashgate; 2009. p. 203-21.
- Wacker J**, Schaub MC, Zaugg M. Cardioprotection by Modulation of the Adrenergic System. Heart Disease and the Surgical Patient: CRC Press; 2007. p. 117-49. ISBN: 9780849340918

CONFERENCE POSTERS: 8

- Wacker J**, Manser T, Steurer J, Mols G. Obstacles to reliable collection of quality data. A survey of anesthesia staff (Conference Poster). ISQua's 29th International Conference: Advancing Quality and Safety for all; Centre International de Conférences Genève (CICG), Geneva, Switzerland: The International Society for Quality in Health Care Ltd, Dublin, Ireland 2012.
- Wacker J**, Manser T, Leisinger E, Stocker R, Mols G. Quality of Quality Data – a Pilot Study in Anesthesia (Conference Poster). International Conference: "Patientensicherheit – avanti!"; November 29-30, 2011.; Congress Center, Basle, Switzerland: Patient Safety Foundation, Zurich, Switzerland; 2011.
- Maurer K, **Wacker J**, Spahn D. Induction of general anesthesia with propofol and sevoflurane change axonal excitability of primary sensory afferents. Swiss medical weekly. 2010;140:10S-10S:10S-S.
- Maurer K, **Wacker J**, Spahn DR General Anesthetics Change Axonal Excitability of Primary Sensory Afferents. 2009 Annual Meeting of the American Society Anesthesiologists; 2009 October 17 - 21, 2009; New Orleans, Louisiana.
- Bonvini J, Breitenstein S, Nürnberg J, Ganter M, Moral J, Henze G, **Wacker J**, Clavien PA, Beck-Schimmer B Pharmacological postconditioning in liver surgery using a volatile anesthetic: preliminary data. Swiss medical weekly. 2009;139(41-42):8S.
- Wacker J**, Maurer C, Lucchinetti E, Härter L, Zaugg M. Hyperoxemia induces a thrombelastographic pro-coagulant effect in healthy volunteers. 11th International Congress of Cardiothoracic and Vascular Anesthesia (ICCVA); September 16, 2008; Berlin, Germany, 2008
- Wacker J**, Künzle B, Zala-Mezö E, Heeb P, Leisinger E, Kobler A, et al. Time to Perception as Part of Team Response to Critical Events: Novel Approach to Assessing Time-Critical Aspects of Team Performance. A Pilot Study Focusing on Cardiac Arrest During Simulated Anesthesia Inductions. Research Abstract 68, 8th International Meeting on Simulation in Healthcare, January 13-16, 2008, Marriott San Diego Hotel & Marina, San Diego CA. Simulation in healthcare : journal of the Society for Simulation in Healthcare. 2008;3(5):58-92.
- Künzle B, Zala-Mezö E, Grote G, **Wacker J**. Adaptive Leadership Processes in Anaesthesia Teams. Peer-Reviewed Research Abstract 29, 7th Annual International Meeting on Simulation in Healthcare: January 14-17, 2007 Disney's Contemporary Resort Lake Buena Vista FL. Simulation in healthcare : journal of the Society for Simulation in Healthcare. 2007;1(1):29-68.

CASE REPORT: 1

- Wacker J**, Djaiani G, Katznelson R, Karski J. External compression of superior vena cava after the replacement of ascending aorta. Eur J Echocardiogr. 2008 Jul;9(4):589-90. PubMed PMID: 18490312. Epub 2008/05/21.

OTHER ARTICLES: 6

- Arnal D, **Wacker J**. Important and urgent issues in perioperative patient safety: fourth perspective of a patient safety expert panel. *ESAIC Newsletter*. 2021(January 2021). <https://www.esaic.org/esa-news/newsletter->

[january-2021-important-and-urgent-issues-in-perioperative-patient-safety-fourth-perspective-of-a-patient-safety-expert-panel/](#). Published 05 January 2021. Accessed 05 January 2021.

Wacker J. Third expert panel perspective on important and urgent issues in perioperative patient safety. ESA Newsletter [Internet]. 2019; (68). Available from: <https://www.esaic.org/esa-news/third-expert-panel-perspective-on-important-and-urgent-issues-in-perioperative-patient-safety/>.

Wacker J. Perioperative patient safety and quality. 2019. Available from: <http://www.lf.upjs.sk/ceea/doc5/texty/20%20%20Wacker%20Safety%20and%20Quality%20CEEA2019.pdf>. Accessed: 09.01.2021

Wacker J. Revisiting the Helsinki Declaration on Patient Safety in Anaesthesiology – A Project to Assess and Improve Implementation into Practice. ESA Newsletter [Internet]. 2017; (69). Available from: <http://newsletter.esahq.org/revisiting-the-helsinki-declaration-on-patient-safety-in-anaesthesiology-a-project-to-assess-and-improve-implementation-into-practice/>.

Wacker J. Important and urgent issues in perioperative patient safety – views of an expert panel. ESA Newsletter [Internet]. 2017; (68). Available from: <http://newsletter.esahq.org/important-and-urgent-issues-in-perioperative-patient-safety-views-of-an-expert-panel/>.

Wacker J. Perioperative patient safety and quality – how much do we want to know? SWISS REVIEW OF MILITARY AND DISASTER MEDICINE [Internet]. 2017 31.10.2017; (2/17):[36-41 pp.]. Available from: <http://www.medof.ch/gemeinsame-publikationen.html>.

INAUGURAL DISSERTATION AND MASTER THESIS

Wacker J. Uncertain progress in Swiss perioperative mortality 1998-2014 for 22 operation groups [Master Thesis, MPH]. Zurich: Faculties of Medicine of the Universities of Basel, Bern and Zurich; 2018. https://intern.public-health-edu.ch/abstract/WJ_17.01.19.pdf

Wacker J. Verzögert auftretende intrakranielle Blutungen im computertomographischen Verlauf nach Schädel-Hirn-Trauma [Diss. med. Univ. Zürich]. Zürich: Universität Zürich; 1993. https://opac.nebis.ch/F/?local_base=NEBIS&CON_LNG=GER&func=find-b&find_code=SYS&request=001289017

RESEARCH PROFILE

Research Scores (January 7, 2021): ResearchGate (RG) Score: 27.77; Citations: 942; *h*-index: 16; excluding self-citations: 15

Researchgate Profile: https://www.researchgate.net/profile/Johannes_Wacker

Reviewer for: European Journal of Anaesthesiology, Acta Anaesthesiologica Scandinavica

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