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CURRICULUM VITAE

Kathryn K. Lauer MD

Emeritus Professor
Department of Anesthesiology

OFFICE ADDRESS:
8850 William Coffey Drive

Milwaukee, WI 53226

EDUCATION:
2002 - 2003 Certificate, Leadership Development Program, MCW/UWM Business School, Milwaukee,, WI

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:
07/01/1984 - 09/30/1987 Anesthesiology residency, Anesthesiology, MCW Affiliated Hospitals, 8700 W. Watertown Plank Rd., Milwaukee, WI 53226

ADMINISTRATIVE APPOINTMENTS:
07/01/2017 - 06/30/2020 Chief of Staff, Froedtert Memorial Lutheran Hospital, 9200 W. Wisconsin Ave, Milwaukee, WI 53226
07/01/2019 - Present Co-Director Preevaluation and Testing Clinic, Anesthesiology and Internal Medicine, Froedtert Memorial Lutheran Hospital, 9200 W. Wisconsin Ave., Froedtert Memorial Lutheran Hospital, WI 53226
07/01/2020 - Present Vice Chair, Quality, Anesthesiology, Medical College of Wisconsin, 9200 W. Wisconsin Ave, Department of Anesthesiology, Milwaukee, WI 53226

HOSPITAL AND CLINICAL ADMINISTRATIVE APPOINTMENTS:
07/01/2010 - Present Co-Chair IPP Safety, Anesthesiology, Froedtert Hospital, 9200 W. Wisconsin Ave, Milwaukee, WI 53112
07/01/2016 - Present Co-chair Surgical Quality Committee, Anesthesiology, Froedtert Hospital, 9200 W. Wisconsin Ave., Milwaukee, WI 53226
07/01/2018 - Present PSI-11 Champion, Froedtert Hospital, 9200 W. Wisconsin Ave, Milwaukee, WI 53226
04/04/2020 - 05/30/2020 Lead, Supply Chain Advisory Team, Froedtert Health
07/01/2020 - Present Co-Director Preevaluation Clinic, Anesthesiology, Froedtert Hospital, 9200 W. Wisconsin Ave, Milwaukee, WI 53226

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:
07/08/2016 - Present member, Neurotrack Educational Committee, American Society of Anesthesiology

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

International
Lauer, K, Less is More: Anesthetic Implications for Minimally Invasive Neurosurgical Procedures in the IR Suites, ASA Annual Meeting, Orlando, FL, 10/20/2019 - Present
Lauer K, Management of Respiratory Safety, 10th Annual Croatian European American Anesthesia Conference, Croatia- Virtual, 05/21/2021 - Present

Local
Lauer, Kathryn, Update on Respiratory Safety, Perioperative Case Conference, Milwaukee, 09/28/2020

PEER REVIEWED WORKSHOPS/PRESENTATIONS:

National

Lauer K, Van Norman G, Goldstein P, Ethical Considerations for Neuroanesthesiologists: Who Gets to Decide What and When?, ASA meeting, Zoom, 10/05/2020 - Present

COMMITTEE SERVICE:

Medical College of Wisconsin

07/01/2014 - 06/30/2020 Chair 2014-2020, Nominating Committee, Medical College of Wisconsin

Hospital

07/01/2010 - 11/30/2019 member, Capital Budget Committee, Froedtert Hospital
07/01/2012 - 01/01/2020 member, Surgical Services Leadership, Froedtert Hospital
11/01/2017 - 05/30/2020 member, JOE (Journey for Operational Excellence) Committee, Froedtert Hospital

MCW TEACHING ACTIVITIES:

Resident and Fellow Education

09/30/2020 Grand Rounds- Quality and Safety in the Department of Anesthesiology
11/01/2020 - Present Perioperative Medicine Lecture Series
04/12/2021 - Present MCWAH House Staff Quality Committee- Communication and Teamwork
04/13/2021 - Present Closed Claims Analysis
05/10/2021 - Present Respiratory Safety

COMMUNITY SERVICE ACTIVITIES:

08/19/2019 - Present I Heart Radio- the Word on Medicine. "A day in the life of the Operating Room"

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Cheng E, Lauer KK: "Evaluation of the Palmar Circulation by Pulse Oximetry." J Clin Monit 5:1-3, 1989.
2. Lauer KK, Haddox D: "Epidural Blood Patch as Treatment for a Surgical Durocutaneous Fistula." J Clin Anesth 4:45-47, 1992.
3. Lauer KK, Munshi C, Larson S: "The Effect of Midazolam on Median Nerve Somatosensory Evoked Potentials." J Clin Monit 10:181-184, 1994.
4. Madsen K, Woehlck H, Cheng E, Kampine J, Lauer KK: "Criteria for Defining Clinical Competence of Anesthesiology Residents." Anesthesiology 80:663-665, 1994.
5. Lowe D, Lauer KK: "Anesthesia Management of Patients with Intracranial Aneurysms". Anesthesiology Today 9:5-9, 1995.
6. Lauer KK, Connolly L, Schmeling W: The Effect of Morphine, Fentanyl and Sufentanil on Intracranial Pressure in Head Injured Patients. Can J Anesth 44: 929-933, 1997.
7. Hudetz AG, Biswal BB, Shen H, Lauer KK, Kampine JP: Spontaneous Fluctuations in Cerebral Oxygen Supply: An Introduction Adv Exp Med Biol .454: 551-560, 1998
8. Lauer KK, Shen H, Hudetz AG, Stein E, Kampine JP: Regional Cerebral Blood Flow Autoregulation in a Silicone Embolus Model of Focal Brain Ischemia as Assessed by Multichannel Laser Doppler Flowmetry. Adv Exp Med Biol 454: 253-260, 1998.
9. Lauer KK. Shen H. Hudetz AG. Stein EA. Kampine JP: Regional cerebral blood flow autoregulation in a silicone embolus model of focal brain ischemia as assessed by multichannel laser Doppler flowmetry . Advances in Experimental Medicine & Biology. 454:253-9, 1998.
10. Lauer KK, Connolly L: "Anesthesia for Laparoscopic Surgery." In Franzides, C. editors, Laparoscopic Surgery, 1995, Mosby-Year Book.
11. Lauer KK, Shen H, Hudetz AG, Stein E, Kampine JP: Focal Cerebral Ischemia in Rats Produced by Intracarotid Embolization with Viscous Silicone. Neurol. Research. 24(2):181-90, 2002 Mar.
12. Lauer KK: The Symposium preceding the Meeting (SNACC). Propofol: Exploring Options in the

Neurosurgical Patient J Neurosurg Anesth 2000 :12(1).70-73.

13. Lauer KK: Intraoperative Brain Protection: The Reality. ASEAN J Anesth:2001; 28(5)
14. Gundamaraj NR, Lauer KK: Diagnosis of Intracranial Arterial Stenosis using Transcranial Doppler Flowmetry. Anesth Analg. 98(6):1776-8 2004 Jun.
15. Lauer KK: Visual loss after spine surgery. Journal of Neurosurgical Anesthesiology. 16(1):77-9, 2004 Jan.
16. Liu H, Rainey C, Lauer KK, Piacentine L, Bloom A, Risinger R, Ward BD, Stein E, Li SJ: Peripheral blood pressure changes induced by dobutamine do not alter BOLD signals in the human brain. Neuroimage. 2005 Dec 20
17. Hacein-Bey L, Harder DR, Meier HT, Varelas PN, Miyata N, Lauer KK, Cusick JF, Roman RJ: Reversal of delayed vasospasm by TS-011 in the dual hemorrhage dog model of subarachnoid hemorrhage. AJNR Jun;27(6):1350-4, 2006
18. Mashour G, Lauer K, Greenfield, ML, Vavilala M, Avitsian R, Kofke A, Koht A, Brambink A. Accreditation and Standardization of Neuroanesthesia Fellowship Programs: Results of a Specialty-Wide Survey J Neurosurg Anes. 22(3):252-5, 2010 Jul.
19. The POVL Group. Risk Factors Associated with Ischemic Optic Neuropathy after Spinal Fusion Surgery, Anesthesiology (116): 15-23, 2012 Jan
20. Novalija J, Lauer K, Henry A, Ellinas H. Anesthesia Core Skill Simulation Package for Anesthesia Newbies (submitted to Simulation in Health Care)
21. Liu X, Lauer K, Ward B, Rao S, Li S, Hudetz A.:"Propofol Disrupts Functional Interactions between Sensory and High-Order Processing of Auditory Verbal Memory"
22. Hum Brain Mapp 33(10):2487-98, 2012 Oct.
23. Liu X. Lauer KK. Ward BD. Li SJ. Hudetz AG. "Differential Effects of Deep Sedation
24. with Propofol on the Specific and Nonspecific Thalamocortical Systems: A Functional Magnetic Resonance Imaging Study", Anesthesiology. 118(1):59-69, 2013 Jan.
25. Mashour GA; Avitsian R; Lauer KK; Soriano SG; Sharma D; Koht A; Crosby G; Neuroanesthesiology fellowship training: curricular guidelines from the Society for Neuroscience in Anesthesiology and Critical Care. J Neurosurg Anesth. 25(1):1-7, 2013 Jan.
26. Woehlck HJ; Boettcher BT; Lauer KK; Cronin DC; Hong JC; Zimmerman MA; Kim J; Selim Hydroxocobalamin for Vasoplegic Syndrome in Liver Transplantation: Restoration of Blood Pressure Without Vasospasm. A & A Case Reports. 7(12):247-250, 2016 Dec 15.
27. Liu X; Lauer KK; Douglas Ward B; Roberts C; Liu S; Gollapudy S; Rohloff R; Gross W; Chen G; Xu Z; Binder JR; Li SJ; Hudetz AG. Propofol attenuates low-frequency fluctuations of resting-state fMRI BOLD signal in the anterior frontal cortex upon loss of consciousness. Neuroimage. 147:295-301, 2017 Feb 15.
28. Zimmerman MA; Selim M; Kim J; Regner K; Saeian K; Zanowski S; Martin A; Connolly LA; Lauer KK; Woehlck HJ; Hong JC. Outcome analysis of continuous intraoperative renal replacement therapy in the highest acuity liver transplant recipients: A single-center experience. Surgery. 161(5):1279-1286, 2017 May.
29. Liu X; Lauer KK; Ward BD; Roberts CJ; Liu S; Gollapudy S; Rohloff R; Gross W; Xu Z; Chen G; Binder JR; Li SJ; Hudetz AG. Fine-Grained Parcellation of Brain Connectivity Improves Differentiation of States of Consciousness During Graded Propofol Sedation. Brain Connectivity. 7(6):373-381, 2017 Aug.
30. Lauer KK, Zhang D, Lunar L, Landry C, Welter J, Flemming K, Franco R, Siclovan D, Avdeev J, Woodson BT, Szabo A, Truwit JD, Hainsworth KR. Quality improvement initiative: use of the STOP-BANG score and monitoring to reduce adverse events in hospitalised patients at risk of obstructive sleep apnoea. BMJ Open Qual. 2024 Nov 27;13(4). PMCID: PMC11603732
31. Koss, K. R., Kumar, D., Friedland, D. R., Adams, J. A., Lauer, K. K., Tong, L., ... & Woodson, B. T. (2024). Disparities in polysomnography referral in a high-risk cardiac population. Sleep and Breathing, 28(5), 1969-1976.
32. Lauer KK. Success in Medicine Takes a Village Anesthesia Bridges. 1 January 2026:349-355.

Books, Chapters, and Reviews

1. Matthew J. Durand1,2 & Angela K. Beckert3 & Carrie Y. Peterson4 & Kirk A. Ludwig4 & Timothy J. Ridolfi4 & Kathryn K. Lauer5 & Julie K. Freed2,5 You Are Only as Frail as Your Arteries: Prehabilitation of Elderly Surgical Patients Current Anesthesiology Reports (2019) 9:380–386
2. Lauer K. There are many paths to success in Bridges.Ed Kirsch.

Abstracts

1. Lauer KK, Devcic A: "Neurophysiological Monitoring among Members of Society of Neurosurgical Anesthesia and Critical Care." J Neurosurg Anesth 7: A406,199\
2. Lauer KK, Hudetz A."Time Course of CO2 Reactivity in a Silicone Embolus Model of Focal Ischemia." Unincorporated Neuroanesthesia Research Group, Galveston, TX, March 1998.