

CV Wolfgang Steudel MD

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Suite 101-363
Cookeville TN 38501
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Education

M.D. (Dr. med.), Free University, Berlin, Germany

1993

Postdoctoral Training

Research & Clinical Fellow
Justus-Liebig Universitaet Giessen
Freie Universitaet Berlin

1993-1995

Clinical & Research Fellow
Massachusetts General Hospital
Harvard Medical School
Boston MA

1995-1998

Anesthesia Residency
Massachusetts General Hospital
Harvard Medical School
Boston MA

1998-1999

2000-2001

Transitional Internship
Carney Hospital
Boston MA

1999-2000

Cardiac Anesthesia Fellowship
Massachusetts General Hospital
Harvard Medical School
Boston MA

2001-2002

July 11, 2023

Academic and Full-Time Staff Appointments:

Assistant Professor
University of Colorado Hospital
Denver CO 2002-11/2006

Lecturer & Assistant Professor
Massachusetts General Hospital
Harvard Medical School
Boston MA 12/2006-12/2009

Staff
Lowell General Hospital
Lowell MA 01/2010-05/2016

Cardiac Anesthesiologist
Ft. Walton Beach Med Ctr
Ft. Walton Beach, FL 09/2020-07/2021

- - -

Independent Anesthesiologist 06/2016 – present

(Assignments in CA, NY, NH, OR, NV, MA)

- - -

Other Professional Activities

Editorial Board Member
Critical Care Medicine 2006-2019

Medical Mission, Aweil, South Sudan, Medecins Sans Frontieres (Doctors Without Borders) 05-06/2018

Founder/ CEO
Team Approach Inc (dba APEXpertWitness.com)
Medical Consulting/ Med Expert Witness Services 2016 - present

Licenses, Boards

Facharzt fuer Anaesthesiologie, Berlin, Germany 2005
Diplomate, American Board of Anesthesiology 2005/ 2015

Medical license active: CA, TN, FL, MA, NY, OR
Medical license inactive/ lapsed: CO, MT, PA, NJ, NV

Research Grants

Deutsche Forschungsgemeinschaft	1995-1996
National Institutes of Health	2003-2006
Society of Cardiovascular Anesthesia	2004-2006
Foundation of Anesthesia Education and Research	2003-2006
Biosensors Inc	2005-2006

Bibliography

1. Rossaint R, Gerlach H, Schmidt-Ruhnke H, Pappert D, Lewandowski K, Steudel W, Falke K: Efficacy of inhaled nitric oxide in patients with severe ARDS. *Chest* 1995; 107:1107-1115.
2. Rossaint R, Slama K, Steudel W, Gerlach H, Pappert D, Veit S, Falke K: Effects of inhaled nitric oxide on right ventricular function in severe acute respiratory distress syndrome. *Intensive Care Med* 1995;21:197-203.
3. Imanaka H, Hess D, Kirmse M, Bigatello LM, Kacmarek RM, Steudel W, Hurford WE: Inaccuracies of nitric oxide delivery systems during adult mechanical ventilation. *Anesthesiology* 1997;86:676-688.
4. Steudel W, Kramer HJ, Degner D, Rosseau S, Schutte H, Walmrath D, Seeger W: Endotoxin priming of thromboxane-related vasoconstrictor responses in perfused rabbit lungs. *J Appl Physiol* 1997;83:18-24.
5. Steudel W, Ichinose F, Huang PL, Hurford WE, Jones RC, Bevan JA, Fishman MC, Zapol WM: Pulmonary vasoconstriction and hypertension in mice with targeted disruption of the endothelial nitric oxide synthase (NOS 3) gene. *Circ Res* 1997; 81:34-41.
6. Ermert L, Ermert M, Goppelt-Struebe M, Walmrath D, Grimminger F, Steudel W, Ghofrani HA, Homberger C, Duncker H, Seeger W: Cyclooxygenase isoenzyme localization and mRNA expression in rat lungs. *Am J Respir Cell Mol Biol* 1998; 18:479-488.
7. Scherrer-Crosbie M, Steudel W, Hunziker PR, Foster GP, Garrido L, Liel-Cohen N, Zapol WM, Picard MH: Determination of right ventricular structure and function in normoxic and hypoxic mice: a transesophageal echocardiographic study. *Circulation* 1998;98:1015-1021.

8. Steudel W, Scherrer-Crosbie M, Bloch KD, Weimann J, Huang PL, Jones RC, Picard MH, Zapol WM: Sustained pulmonary hypertension and right ventricular hypertrophy after chronic hypoxia in mice with congenital deficiency of nitric oxide synthase 3. *J Clin Invest* 1998;101:2468-2477.
9. Steudel W, Seeger W: Endotoxemia affects lung vascular prostanoid metabolism in rabbits. *J Appl Physiol* 1998; 84:2200-2201. (Letter to the Editor)
10. Jones R, Steudel W, White S, Jacobson M, Low R: Microvessel precursor smooth muscle cells express head-inserted smooth muscle myosin heavy chain (SM-B) isoform in hyperoxic pulmonary hypertension. *Cell Tissue Res* 1999;295:453-465.
11. Jones RC, Jacobson M, Steudel W: Alpha-smooth muscle actin and microvascular precursor smooth muscle cells in pulmonary hypertension. *Am J Respir Cell Mol Biol* 1999;20:582-594.
12. Scherrer-Crosbie M, Steudel W, Ullrich R, Hunziker P, Liel-Cohen N, Newell J, Ullrich R, Zaroff J, Zapol WM, Picard ML: Echocardiographic determination of risk area size in a murine model of myocardial ischemia. *Am J Physiol* 1999;277:H986-H992.
13. Scherrer-Crosbie M, Steudel W, Hunziker P, Liel-Cohen N, Ullrich R, Zapol WM, Picard ML: Threedimensional echocardiographic assessment of wall motion abnormalities in mouse infarct. *J Am Soc Echocardiogr* 1999;12:834-840.
14. Steudel W, Watanabe M, Dikranian K, Jacobson M, Jones RC: Expression of nitric oxide synthase isoforms (NOS II and NOS III) in adult rat lung in hyperoxic pulmonary hypertension. *Cell Tissue Res* 1999;295:317-329.
15. Ullrich R, Bloch KD, Ichinose F, Steudel W, Zapol WM: Hypoxic pulmonary blood flow redistribution and arterial oxygenation in endotoxin-challenged mice with congenital NOS2 deficiency. *J Clin Invest* 1999 104:1421-1429.
16. Weimann J, Bloch KD, Takata M, Steudel W, Zapol WM: Congenital NOS2 deficiency protects mice from LPS-induced hyporesponsiveness to inhaled nitric oxide. *Anesthesiology* 1999;91:1744-1753.
17. Steudel W, Hurford WE, Zapol WM: Inhaled nitric oxide: basic biology and clinical application. *Anesthesiology* 1999;91:1090-121. (Review)
18. Hurford WE, Steudel W, Zapol WM: Inhaled nitric oxide therapy for acute respiratory failure. In: Kadowitz PJ, McNamara DB, editors. *Nitric oxide and the regulation of the peripheral circulation*. Boston: Birkhaeuser 1999. (Book Chapter)
19. Roberts JD, Chiche JD, Weimann J, Steudel W, Zapol WM, Bloch KD: Nitric oxide inhalation decreases pulmonary artery remodeling in rat pups before

pulmonary hypertension. *Circ Res* 2000;87:140-145.

20. Steudel W, Kirmse M, Weimann J, Ullrich R, Hromi J, Zapol WM: Nitric oxide exhalation by mice with congenital nitric oxide synthase deficiency. *Am J Respir Crit Care Med* 2000;162:1262-1267.

21. Hurford WE, Steudel W, Zapol WM: Clinical therapy with inhaled nitric oxide in respiratory diseases. In: Ignarro LJ, editor. *Nitric oxide: biology and pathobiology*. San Diego: Academic Press 2000. (Book Chapter)

22. Steudel W, Szabo M: Anesthesia for Neurosurgery. In: Hurford WE, editor: *Clinical Anesthesia Procedures of the Massachusetts General Hospital*. Lippincott-Raven 2002.

23. Carpenter T, Schomberg S, Steudel W, Ozimek J, Colvin K, Stenmark K, Ivy D: Endothelin B receptor deficiency predisposes to pulmonary edema formation via increased lung vascular endothelial cell growth factor expression. *Circ Res* 2003; 93(5):456-463.

24. West J, Fagan K, Steudel W, Fouty B, Harral, Miller M, Tada Y, Ozimek J, Tudor R, Rodman D: Transgenic mice expressing a human BMPRII mutation in vascular smooth muscle develop pulmonary arterial hypertension. *Circ Res* 2004;94(8):1109-1114.

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26. Laudi S, Tran Z, Steudel W: Cariporide in cardiac resuscitation – does it really make a difference? *Crit Care Med* 2005; 33:1707-2708. (Editorial)

27. Christians U, Strom T, Zhang YL, Steudel W, Schmitz V, Trump S, and Haschke M: Active drug transport of immunosuppressants: new insights for pharmacokinetics and pharmacodynamics. *Ther Drug Monit* 2006;1:39-44. (Review)

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29. Hagen M, Fagan KA, Steudel W, Carr M, Lane K, Rodman DM, West J: Interaction of Interleukin-6 and the BMP pathway in pulmonary smooth muscle. *Am J Physiol Lung Cell Mol Physiol* 2007; 292(6): L1473-1479.

30. Laudi S, Weimann J, Haschke M, Trump S, Schmitz V, Christians U, Steudel W: Worsening of long-term myocardial function after successful pharmacological preconditioning with cyclosporine A. *J Physiol Pharm* 2007;58:19-32.

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33. Steudel W, Dingmann C, Zhang YL, Bendrick-Peart J, Clavijo C, Shulze J, Betts R, Christians U. Randomized, double-blind, placebo-controlled, single intravenous dose-escalation study to evaluate the safety, tolerability, and pharmacokinetics of the novel coronary smooth muscle cell proliferation inhibitor Biolimus A9 in healthy individuals. *J Clin Pharmacol*. 2011; 51(1): 29-39.
34. Steudel W and Zapol W: Inhaled Nitric Oxide. In: Vacanti CA, editor: *Essential Clinical Anesthesia*. Cambridge University Press 2011. (Book Chapter)
35. Patel R, Albadawi R, Steudel W, Hashmi FF, Kang J, Yoo HJ, Watkins MT. Inhalation of carbon monoxide reduces skeletal muscle injury after hind limb ischemia-reperfusion in mice. *Am J Surg*. 2012; 203 (4): 488-495
36. Laudi S, Steudel W: Is the time right to fight global warming in sepsis ? *Crit Care Med* 2013, 41 (12): 2835-2836. (Editorial)