

CURRICULUM VITAE (8/8/2016)

Personal Information:

Name: David Mayer Gaba, M.D.

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Education:

Undergraduate: Northwestern University, Evanston, Illinois, 1972-1976,
B.S Engineering, Biomedical Engineering
(Area of Specialization: Medical Information Processing)

Medical: Yale University, New Haven, Connecticut, 1976 - 1980, M.D.

Post-graduate Medical Training:

Internship: Waterbury Hospital, Waterbury Connecticut, 1980 - 1981, Internal Medicine

Residency: Stanford University, Stanford, California, 1981 - 1983, Anesthesiology

Current Professional Positions:

- **Associate Dean for Immersive and Simulation-based Learning, Stanford University School of Medicine, July, 2004 – present**
- **Professor of Anesthesia with Tenure, Stanford University School of Medicine, December, 1999 -- without limit of time**
- **Staff Physician, VA Palo Alto Health Care System, 7/83 – present**
- **Founder and Co-Director (with Steve Howard, MD), VA Palo Alto HCS Patient Simulation Center, 1995 – present**
- **Founding Editor-in-Chief, *Simulation in Healthcare*, 2016 – present
(active EIC 2005 – 2016)**

Previous Professional Positions:

- Associate Professor of Anesthesia (with tenure), Stanford University School of Medicine, September, 1992 – December, 1999
- Assistant Professor of Anesthesia, Stanford University School of Medicine, September 1, 1985 to September 1, 1992
- Acting Assistant Professor of Anesthesia, Stanford University School of Medicine, July 1, 1983 to August 31, 1985
- Chairman, Committee on Human Subjects in Research (IRB), Stanford University, May, 1996 – September, 2002 Committee member, October, 1993 - May, 1996)
- Editorial Board (Associate Editor), *Anesthesiology*, 2004 – 2006
- Editorial Board, *Human Factors*, 2005 - 2006
- Editorial Board, *Teaching and Learning in Medicine*, 2000 – 2006

Certification:

Medical Licensure: California, # available on request

Board Certification: American Board of Anesthesiology, Nov 1, 1985, # available on request

Professional Society Membership:

American Society of Anesthesiologists

California Society of Anesthesiologists

Society for Simulation in Healthcare

Honors and Awards:

Teacher of the Year Award, Department of Anesthesia, Stanford University, 1990-1991

Ellis Cohen Award, Department of Anesthesia, Stanford University, 1995-1996

University of Rochester Center for Medical Simulation Award for Outstanding Contributions to the Field of Medical Simulation, June, 1999

Society for Education in Anesthesia/Duke Award for Excellence and Innovation in Anesthesia Education, October 2003

Department of Veterans Affairs, David M. Worthen Award for Academic Excellence, January, 2004

International Anesthesia Research Society, Achievement in Education Award, 2008

Kaiser Award for Innovative and Outstanding Contributions to Medical Education, Stanford University School of Medicine, May, 2010

The Society for Technology in Anesthesia, J.S. Gravenstein Award for Lifetime Achievement, January, 2011

Department of Veterans Affairs, Under Secretary for Health Award for Excellence in Clinical Simulation Training, Education and Research, January, 2011 (inaugural award)

Icahn School of Medicine, Mount Sinai, New York, Eliasberg Award, April, 2015

National Organizations:

Secretary, Anesthesia Patient Safety Foundation, October, 1990 – 2008; Member at Large, Executive Committee, 2008 - present

Member, Steering Committee and Board of Directors, Advanced Initiatives in Medical Simulation, November, 2004 – present; Treasurer, 2007- 2016 (*AIMS disbanded*)

Founding & Current Member, Board of Directors, Society for Sim Healthcare, January, 2003 – present;

Member, ASA Task Force on Simulation, October 2004 – 2007; Member, ASA Committee on Simulation Education (now Simulation Editorial Board), 2007 – present

Member, Steering Committee, Emergency Manual Implementation Collaborative, 2013 – present

Recent and Current Research Support

1 R18 HS020415-01 (PI: Matt Weinger)		3/29/2011 – 4/1/2015
AHRQ	\$29,782 – \$32,806 (yrs1-3; Stanford portion) Total award (3yrs) = \$1,047,706	Co-I (11%)
Creating Simulation-Based Performance Assessment Tools For Practicing Physicians		

W81XWH-11-C-0050 (PI T Judkins, SU Sub-contract PI A Okamura, Mech Engg)		4/5/2012-4/14/2014 (No Cost extension)
DoD; U.S. Army Medical Research and Materiel Command (SBIR Phase II grant)	Stanford component: \$199,942; Total Award \$750,000	Co-I (2%)
Hands-Free Kinetic System for Medical Simulation (KineSys MedSim)		

DM142062 (PI R Steadman, UCLA)		January 1, 2016 -
DoD Defense Med Rsch & Development Program for the Office of the Congressionally Directed Med Rsch Programs (CDMRP)	TBD	Consultant
Design of a Screen-Based Simulation for Training and Automated Assessment of Teamwork Skills		

BIBLIOGRAPHY (h-index 36 Web of Science [as of 2/2016])

ORIGINAL ARTICLES, COMMENTARIES, AND EDITORIALS:

1. **Gaba DM**, Talner NS: Myocardial damage following transthoracic direct current counter-shock in newborn piglets. *Pediatric Cardiology* 2: 281-288, 1982.
2. **Gaba DM**, Metz S, Maze M: Post-countershock myocardial damage after pretreatment with adrenergic and calcium channel antagonists in halothane anesthetized dogs. *Anesthesiology* 62:610-614, 1985
3. **Gaba DM**, Wyner J, Fish KJ: Anesthesia and the Automatic Implantable Cardioverter/Defibrillator. *Anesthesiology* 62:786-792, 1985
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5. Marmor MF, Donovan WJ, **Gaba DM**: Effects of hypoxia and hyperoxia on the human standing potential. *Documenta Ophthalmologica* 60:347-352, 1985
6. Prokocimer PG, Nicholls E, **Gaba DM**, Maze M: Epinephrine arrhythmogenicity is enhanced by acute but not chronic aminophylline administration during halothane anesthesia. *Anesthesiology*, 65:13-18, 1986
7. Hayes DM, **Gaba DM**, Goode RL: Incendiary characteristics of a new laser-resistant endotracheal tube. *Otolaryngology - Head and Neck Surgery* 95:37-40, 1986
8. **Gaba DM**, Maxwell MS, Merlone S, Smith C: Internal countershock produces myocardial damage and lactate production without myocardial ischemia in anesthetized dogs. *Anesthesiology* 66:477-482, 1987
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12. Maxwell MS, DeAnda A, Vickery R, **Gaba DM**: Lactate extraction and myocardial damage following countershock at different energy levels. *J Cardiothoracic Anesthesia* 2:341-345, 1988
13. **Gaba DM**, DeAnda A: A comprehensive anesthesia simulation environment: Re-creating the operating room for research and teaching. *Anesthesiology* 69:387-394, 1988
14. **Gaba DM**, DeAnda A: The response of anesthesia trainees to simulated critical incidents. *Anesthesia and Analgesia* 68:444-451, 1989
15. **Gaba DM**: Human error in anesthetic mishaps. *International Anesthesiology Clinics* 27:137-147, 1989
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23. **Gaba DM**, Howard SK: Conference on human error in anesthesia (meeting report). *Anesthesiology* 75:553-554, 1991
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110. **Gaba DM:** Training and nontechnical skills: the politics of terminology (editorial). *Simul Healthc.* 2011; 6:8-10.
111. **Gaba DM:** Where do we come from? What are we? Where are we going? (editorial). *Simul Healthc.* 2011; 6:195-196.
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119. **Gaba DM:** Perspective: Thorniest issues in healthcare. [Biomed Instrum Technol.](#) 2013;47:299-303.
120. **Gaba DM:** Peri-operative cognitive aids in anesthesia: What, who, how, and why bother? (editorial) *Anesth Analg* 2013; 117:1033-1036.
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123. Weinger MB, **Gaba DM:** Human factors engineering in patient safety (editorial). *Anesthesiology* 2014; 120:801-806
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125. **Gaba DM:** Simulation as a critical resource in the response to Ebola virus disease (editorial). *Simul Healthc* 2014; 9:337-8.

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BOOKS:

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2. **Gaba DM**, Fish KJ, Howard SK, Burden AR: *Crisis Management in Anesthesiology*, 2nd Edition (includes 2 new chapters and revised & additional elements in Catalog of Critical Events). Philadelphia, Saunders – an imprint of Elsevier Inc., 2015 (released September, 2014) Spanish Translation – *Manejo de las Crisis en Anestesia* – released May, 2016

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2. **Gaba DM**: Dynamic decision-making in anesthesiology: cognitive models and training approaches *In* Advanced Models of Cognition for Medical Training and Practice, edited by Evans DA, Patel VL. Berlin: Springer-Verlag, 1992, pp 123-147
3. **Gaba DM**: Human work environment and simulators (Chapter 85). *In* Anesthesia, edited by Miller RD, 4th edition. New York: Churchill Livingstone, 1994, pp 2635-2679
4. **Gaba DM**: Human performance in dynamic medical domains. *In* Human Error in Medicine, edited by Bogner, MS. Hillsdale, N.J.: Lawrence Erlbaum Associates, 1994, pp. 197-224.
5. Botney R, **Gaba DM**: Human factors in monitoring. *In* Monitoring in Anesthesia and Critical Care, 3rd edition, edited by Blitt CD, Hines RL. New York: Churchill Livingstone, 1994, pp. 23-54.
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11. Howard SK, **Gaba DM**: Human Performance and Patient Safety. *In* Patient Safety in Anesthetic Practice, edited by Morrell R, Eichhorn J. New York: Churchill Livingstone, 1997, pp. 431-466
12. **Gaba DM**: Research techniques in human performance using realistic simulation, *In* Simulators in Anesthesiology Education, edited by Henson L, Lee A, Basford A. New York: Plenum Publishing Corporation, 1998, pp. 93-102.
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Named Lectures

(Dr. Gaba has made several hundred invited presentations all over the world. Only named lectures are listed):

Department of Anesthesia, Case Western University School of Medicine, Ali Gharib Lecturer, September, 2003

Columbia University School of Medicine, Morris Symposium Lecture, September 2004

University of Pittsburgh, Peter and Eva Safar Lecture, May, 2007

Department of Anesthesia, Penn State School of Medicine, 14th Joseph Priestley Lecturer, December, 2008

Royal College of Anaesthetists, 40th Joseph Clover Lecture, March, 2010

International Anesthesia Research Society, T.H. Seldon Lecture, May, 2013

Society for Airway Management, Ovassapian Lecture, September, 2014

American Society of Anesthesiologists, Ellison C. Pierce Jr. Memorial Lecture, October, 2014

Icahn School of Medicine, Mount Sinai, New York, Eliasberg Award Lecture, April, 2015

TEACHING

Post-doctoral fellows:

Steven Merlone, M.D.:	1984-1985	Supported by Stanford Dept. of Anesthesia
Mary Maxwell, M.D.:	1985-1986	Supported by California Affiliate, AHA; Stanford Dept. of Anesthesia
Steven Howard, M.D.:	1991	Supported by Stanford Dept. of Anesthesia
Richard Botney, M.D.	1992-1994	Supported by the Dept. of Veterans Affairs
Gregory Botz, M.D.	1994	Supported by the Whitaker Foundation
Brendan Flanagan, M.D.	1995	Supported by the Whitaker Foundation
Brian Smith, M.D.	1996	Supported by Stanford Dept. of Anesthesia
Yasser Sowb, Ph.D.	1997- 2001	Supported by Stanford Dept. of Anesthesia & VA Patient Safety Center of Inquiry
Erin Bushell, M.D.	2000–2001	Supported by Patient Safety Center of Inquiry
Kyle Harrison, M.D.	2003-2004	Supported by Patient Safety Center of Inquiry
Tanja Manser, Ph.D.	2003-2005	Supported by Swiss Govt. Post-doc Grant
Ruth Fanning, M.D.	2005-2006	Supported by Stanford Dept. of Anesthesia
Sesh Mudumbai, M.D.	2006-2007	Supported by Stanford Dept. of Anesthesia
Ankeet Udani, M.D.	2011-2014	Supported by Stanford Dept. of Anesthesia
Naola Austin, M.D.	2014-2015	Supported by Stanford Dept. of Anesthesia
Louise Wen, M.D.	2016-2018	Supported by Stanford Dept. of Anesthesia

Research Students:

Graduate/Medical Students

Abe DeAnda:

1985 (summer quarter)	Supported by Stanford Early Matriculation Program
1986	Supported by Stanford Medical Scholars Program
1987 (winter quarter)	Supported by Anesthesia Patient Safety Grant
1987-88	Supported by Pfeiffer Foundation Scholarship

John Williams

1987 - 1990	Supported by the APSF and by the Whitaker Foundation
Ingo Beinlich, M.D.	(PhD candidate, Medical Information Sciences)
1989 - 1992	Supported by the Whitaker Foundation
George Yang	
1990-1993	Supported by Stanford Med Scholars Program
Joe Fenerty	
1991	Course credit
Belinda Jump	
1992-1995	Supported by Stanford Medical Scholars Program
Sarah Lau	
1993	Course Credit
Oliver Herndon	
1993, 1995, 1996	Supported by Stanford Medical Scholars Program
Lisa Pate	
2000 (summer quarter)	Supported by Stanford Early Matriculation Program
Noah Richmond	
2001-2002	Thesis Research
Michael Cook	
2013 (June)	Supported by U. C. Davis scholarship
<u>Undergraduate Students</u>	
George Yang: 1987-1989	For course credit
Thomas Lee: 1988-1990	Supported by Anesthesia Patient Safety Foundation
Laura Chyu 1996	Volunteer
Dat Mac 2001-2003	Supported by PSCI

Courses Taught (all of the below were co-created by Dr. Gaba):

Anesthesia Crisis Resource Management (ACRM1) (1990 - present)

Intermediate Anesthesia Crisis Resource Management (ACRM2) (1997 - present)

Advanced Anesthesia Crisis Resource Management (ACRM3) (1998 - present)

Simulation Instructor Course (1995 - present)

VA SimLEARN Simulation Instructor Course (2011 - present)

Maintenance of Certification in Anesthesia Simulation Course (2011 – present)

VA SimLEARN Code Team Simulation Instructor Course (2012 – present)

VA SimLEARN Out of OR Airway Management Simulation Instructor Course (2012 – present)