

Curriculum Vitae
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Assistant Professor
Departments of Anesthesiology and Psychiatry
July, 2009

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Education

May 1997, M.D. State University of New York Health Science Center at Brooklyn,
Brooklyn, NY

June 1993, B.A. Brooklyn College – Cum Laude, B.A./M.D. program, major in English Literature,
Brooklyn, NY

Professional Training

8/02-7/03 Research Fellow, Department of Anesthesiology, Strong Memorial Hospital;
Rochester, NY

12/01-6/02 Transplant Anesthesia Fellow, Department of Anesthesiology, Strong Memorial
Hospital; Rochester, NY

7/98 – 11/01 Anesthesiology Resident, Department of Anesthesiology, Strong Memorial
Hospital; Rochester, NY

7/97 – 6/98 Medicine Intern– Maimonides Medical Center, Brooklyn, NY

Work Experience

09/08 – present Vice Chair for Education, Department of Anesthesiology, Strong Memorial
Hospital, Rochester, NY

7/08 – present Residency Program Director, Department of Anesthesiology, Strong
Memorial Hospital; Rochester, NY

2/05 – present Assistant Professor, Department of Psychiatry, Strong Memorial Hospital;
Rochester, NY

8/04 – present Assistant Professor, Department of Anesthesiology, Strong Memorial Hospital;
Rochester, NY

8/03 – 7/04 Senior Instructor, Department of Anesthesiology, Strong Memorial Hospital;
Rochester, NY

Certification

2002 National Medical Boards Parts I, II, III
2004 American Board of Anesthesiology

University of Rochester Professional Activities

2002 – 2008 Instructor, Moderate Sedation (course and credentialing)
2002 – present Rochester Scholars Program (High School Students) at the Center for
Medical Simulation

2002 – present Faculty Advisor, Medical Student Anesthesiology Interest Group
2003 – 2009 Course Director, ANS601, Medical Student Anesthesiology Elective
2003 – present Course Director, ANS950, Medical Student Advanced Anesthesiology
Elective

2003 - present Voting member, UR Medical School 3rd and 4th Year Instruction Committee
2003 – present Course Instructor, Acute Crisis Resource Management, DA
2004 – present QI committee, DA
2004 – present Obstetrical Anesthesia group, Thoracic Anesthesia Group
2006 – present Anesthesia Education Research Group
2007 – present co-Director Medical Student Summer Internship in Anesthesiology
2008 - Ex-Officio Member, Clinical Competence Committee, DA
2008 - Chair, Residency Education Committee, DA

Society Memberships

1998 - present Member, American Society of Anesthesiology
2003 - present Member, New York State Society of Anesthesiologists
2004 - 2005 Consultant to the American Society of Anesthesiologists Task Force on Perioperative Sleep Apnea
2006 - present Member, American Academy of Sleep Medicine
2008 - present Member, Society for Education in Anesthesiology

Honors

4/94 - 6/97 President, 1997 Class of Medicine, SUNY Health Science Center, Brooklyn
6/96 - 6/97 President, Student Center Governing Board
6/96 - 6/97 Chairperson, Liaison Committee on Medical Education Student Council
6/97 Jennifer Timbrook Memorial Award for Student Service
6/98 “Intern of the Year”, Maimonides Medical Center
9/03 Recipient of National Science Foundation trainee conference scholarship for IX Oxford Conference

Grand Rounds

11/04 – Quality Improvement, Department of Anesthesiology
12/04 – LoMAC Anesthesia, Department of Ear, Nose and Throat Surgery
12/04 – Cocaine and Anesthesia, Department of Anesthesiology
09/06, 03/09 – Update on using dexmedetomidine in the OR
09/08 - Update on Cocaine and Anesthesia, Department of Anesthesiology

Invited Lectures

09/06 Update on Practice of Moderate Sedation, Rochester and Canadaigua VA Hospital
12/06 Update on Respiratory Physiology Research, UR Sleep Neurophysiology and Research Laboratory
02/07 Update on Respiratory Physiology Research, Unity Health Sleep Center, Rochester, NY
03/07 Moderate Sedation for Radiologists, Department of Radiology Resident Lecture, URMC
03/08 The Cocaine Addicted Patient – considerations for the Oral-Maxillary Facial Surgeon, URMC
09/09 Anesthetic Implications in the Patient with Obstructive Sleep Apnea – Case Western Reserve Medical Center

Meetings Attended

Postgraduate Assembly, New York City, December 1997
Cleveland Clinic Symposium on Pain Management, Key West, February 1999
Midwest Anesthesia Residents Conference, Milwaukee, March 2001
Society of Obstetrical Anesthesia and Perinatology, San Diego April 2001
ASA, New Orleans October 2001
ASA, Orlando October 2002
AUA, Milwaukee May 2003
IX Oxford Conference, Paris September 2003
ASA, San Francisco October 2003

ASA, Las Vegas October 2004
Sleep, Annual Meeting of AASM, June 2006
ASA, Chicago October 2006
ACG, Philadelphia 2007
WCA, Cape Town 2008
SEA, Miami 2008

Medical Student Educational Activities

2002, 2003, 2004, 2006, 2007

Respiratory Physiology Laboratory – Co-Instructor for 3 hour laboratory experiment designed to have students measure each others ventilatory parameters and values of gas exchange.

2003, 2004

Problem Based Learning course “Challenges to Homeostasis” – Facilitator for group of medical students on this 3 day course designed to explore a case involving a patient with hyperthermia.

2004 – 2007

Respiratory Physiology Problem Set – Co-Instructor for this 3 day course that explores the pathophysiology behind a case involving a patient with COPD and its consequences.

2007 - 2009

Year 2 Case Seminars – Facilitator for this 2 hour/week small group discussion that is spread over seven weeks. This seminar is meant “to take basic science materials from the first two years and place them in a clinical decision-making format.”

2008 - 2009

Clinical Practice Essays in Year 2 Case Seminars – Faculty advisor for this seminar that is modeled after the Clinical Practice feature in the New England Journal of Medicine, this seminar gives the students an opportunity to combine the basic science they have learned, accessing the literature and creating a logical clinical discussion. The student develops an understanding of the disease and its management through researching and writing the essay – which is graded by the faculty mentor.

2007 – 2008

Comprehensive Assessments, second year medical students – Oral examiner and video reviewer for this exercise which involves medical students engaging in history and physical examination skill assessment with standardized patients.

Resident Lectures

2004 – present	Pulmonary function tests (30 minute didactic)
2004 – present	Pregnancy-induced hypertension and pre-eclampsia (30 minute didactic)
2004 – 2007	Post-dural puncture headache(30 minute didactic)
2005 – present	Sleep Apnea and Anesthesia(30 minute didactic)
2008 – present	Anesthetic Implications of Renal and Hepatic Disease (one hour didactic)
2009 – present	Inhaled Anesthetics (one hour didactic)
2009 -	Epidural Complications – the question of minimum platelet count (Team-Based Learning, 1.5 hour workshop)
2009 – present	Peri-Op Guidelines for OSA patients – Let’s Play MadLibs (Team Based Learning, 1.5 hour workshop)

Student Mentorship

Scott Van Valkenburg (Undergraduate UR, 2004)
Anahat Dhillon (UR Med, 2002)
Cheri Camacho (UR Med, 2006)
Emmett Whitaker (UR Med, 2006)
Eric Robbins (Undergraduate, SUNY Albany 2004)

Owen Halloran (UR Med 2005)
Ori Rackovsky (YU 2006)
Jennifer Karnes (Honeoye Falls-Lima High School, Rochester, 2005)
William Sauer (UR med 2010)
Honeoye Falls
Emily Redman
Elia Rackovsky (T.I.U.N.Y. 2006 – High School Graduation through 2009)

Research

- 06/08 – 12/09 Upper Airway Muscle Physical Therapy Funded by the CTSI Grant for Collaborative Research
Principal Investigator: Suzanne Karan, MD
- 03/06 – 03/08 Sedation in patients at risk for sleep-induced upper airway collapse.
Funded by Clinical Research Feasibility Funds (CReFF) Award (\$20,000 for one year)
Principal Investigator: Suzanne Karan, M.D.
- 07/04—06/07 Validation of a Test to Predict Sedative-Induced Upper Airway Obstruction. Funded by Foundation for Anesthesia Education and Research – Research Starter Grant (\$80,000 over two years)
Principal Investigator: Suzanne Karan, M.D.
- 02/04 – 06/07 Teaching Medical Students Geriatric Anesthesia. Funded by a Reynold's Foundation Challenge Grant. (\$8,000)
Co-principal Investigators: Suzanne Karan, M.D., Carol Diachun, M.D.
- 01/04 – 03/07 Role of the peripheral chemoreceptors in the counter-regulatory response to hypoglycemia and hypoxia. Funded by ADA. (\$300,000)
Principal Investigator: Denham Ward, M.D., Ph.D.
- 01/01—11/04 The effects of pain and audiovisual stimulation on opioid induced depression of the hypoxic ventilatory response. Funded by Foundation for Anesthesia Education and Research – Fellowship Grant (\$50,000)
Principal Investigator: Suzanne Karan, M.D.
- The effects and interaction of sedative doses of intravenous midazolam or propofol, and hypoxia, on upper airway obstruction. Funded by IARS clinical scholar award (\$75,000)
Principal Investigator: Peter Bailey, M.D.
- 01/01 – 10/02 Control of ventilation during hypoxia: dopamine to suppress the carotid bodies and midazolam to potentiate central depression
Principal Investigator: Denham Ward, M.D., and Ph.D.
- Assessment of laryngoscopy skill acquisition with a video laryngoscope
Principal Investigator: Ashwani Chhibber, M.D.
- Evaluation and comparison of two pediatric fiberoptic bronchoscopes
Principal Investigator: Ashwani Chhibber, M.D.
- 7/89 – 1/90 Research Assistant for Arnold Strashun, M.D., Nuclear Medicine State University of New York Health Science Center at Brooklyn Studied regional blood flow in the brains of Alzheimer's patients using a SPECT scan.

Medical Community Activities

03/04 American Medical Women's Association panel on "Women in Medicine"
11/04 Consultant, American Society of Anesthesiologists Task Force on
Perioperative Sleep Apnea.
07/09 – 12/09 Reviewer, PGA 2009

Other Community Activities

Executive Board Member Congregation Beth Sholom, Rochester, NY
Member Committee on Recruitment and Retention, Hillel Community Day
School
Panel Member Committee on Hours of Operation for JCC

Guest Editorships

Management of Peri-operative Challenges to Respiration. Seminars in Anesthesia, Perioperative Medicine and Pain. June 2007, volume 26, issue 2. Series Editor: Philip D. Lumb, Elsevier Inc, New York.

Publications

Karan SB, Perlis M, Ward D. Anesthesia and Sleep Medicine: An Opportunity to be Mutually Informative? Seminars in Anesthesia, Perioperative Medicine and Pain (2007) 26; 42-48

Ward DS, Voter WA, **Karan S**. The Effects of Hypo- and Hyperglycaemia on the Hypoxic Ventilatory Response in Humans. The Journal of Physiology 582 (2), 859–869.

Norton JR, Ward DS, **Karan S**, Voter WA, Palmer L, Varlese A, Rachovsky O, Bailey P. Differences between Midazolam and Propofol Sedation on Upper Airway Collapsibility Using Dynamic Negative Airway Pressure. *Anesthesiology*. 104(6):1155-64, 2006 Jun

Kaplan MB, Hagberg CA, Ward DS, Brambrink A, Chhibber A, Heidegger T, Lozada L, Ovassapian A, Parsons D, Ramsay J, Wilhelm W, Zwissler B, Gerig HJ, Hofstetter C, **Karan S**, Kreisler N, Pousman RM, Thierbach A, Wrobel M and Berci G. Comparison of direct and video-assisted views of the larynx during routine intubation. *Journal of Clinical Anesthesia* 18(5):357-6, 2006

Ward DS, **Karan S**. Ventilatory effects of cardiovascular drugs. In: Pharmacology and Pathophysiology of the Control of Breathing, eds Ward DS, Dahan A, Teppema L. (Lung Biology in Health and Disease, Claude Lenfant, executive editor.) Taylor & Francis, Boca Raton, pp 793-813, 2005

Karan S, Voter W, Palmer L, Ward DS. Effects of pain and audiovisual stimulation on the opioid-induced depression of the hypoxic ventilatory response. *Anesthesiology*. 103(2):384-90, 2005 Aug

Karan SB, Norton JR, Voter W, Palmer L, Ward DS. Effects of pain and audiovisual stimulation on the hypoxic ventilatory response. *Advances in Experimental Medicine & Biology*. 551:275-9, 2004.

Karan SB, Norton JR, Voter W, Palmer L, Ward DS. Effects of Pain and Audiovisual Stimulation on the Hypoxic Ventilatory Response, in: Post-Genomic Perspectives in Modeling and Control of Breathing (Volume 551, Advances in Experimental Medicine and Biology), Champagnat J, Denavit-Saubie M, Fortin G, Foutz AS, Thoby-Brisson M, Eds., Kluwer Academic/Plenum Publishers, New York, 2004.

Karan S, Ward DS. Carcinoid Syndrome, in: Decision Making in Anesthesiology: An Algorithmic Approach. (in press)

Karan S, Bailey PL: Update and review of moderate and deep sedation. *Gastrointestinal Endoscopy Clinics of North America* 14(2004) 289-312.

Karan SB, Bailey PL: Practical Aspects of Sedation and Analgesia: The Anesthesiologist's Perspective. *Techniques in Gastrointestinal Endoscopy* 6(2) 46-54, April 2004.

Bailey P, Norton JR, **Karan SB**. The FDA droperidol warning: Is it justified? *Anesthesiology* 97(1): 288-9, 2002.

Ward DS, **Karan S**. Effects of pain and arousal on the control of breathing. *J Anesth* 16:216-221, 2002.

Abstracts

Karan S, Norton R, Chhibber A, Kaplan M, Ward D. Improved laryngoscopic view with the video-Macintosh laryngoscope. *ASA Annual Meeting Abstracts. Equipment, Monitoring, and Engineering Technology*. 97(3A): A564, 2002

Karan SB, Ward DS, Bailey P, Norton R, Voter W. Effects of pain and audiovisual stimulation on the hypoxic ventilatory response. *ASA Annual Meeting Abstracts. Respiration*. 99(3A):A1532, 2003

Norton R, **Karan S**, Ward D, Palmer L, Bailey P. The effects of gender and hypoxia on upper airway obstruction under propofol or midazolam sedation using dynamic negative airway pressure. *ASA Annual Meeting Abstracts. Respiration*. 99(3A):A1536, 2003

Karan SB, Ward DS, Voter W, Palmer LS. The effect of pain and audiovisual stimulation on the opioid-induced depression of the acute hypoxic ventilatory response. *ASA Annual Meeting Abstracts. Clinical Neurosciences*. 101(3A):A359, 2004

Semien GA, Palmer L, Voter W, **Karan S**, Ward D. The effect of a 4-hour dopamine infusion on the hypoxic ventilatory response. *ASA Annual Meeting Abstracts. Respiration*. 101(3A):A1545, 2004

Karan SB, Perlis ML, Voter W, Palmer LS, Ward DS. Validation of a method to produce sedation induced upper airway obstruction. *ASA Annual Meeting Abstracts. Respiration*. A1556, 2006

Karan SB, Voter W, Shah A, Sauer W, Ward DS. Predicting Sedation Induced Respiratory Compromise During Colonoscopy. *The American College of Gastroenterology Annual Scientific Meeting Abstract. Endoscopy* 2007.

Karan SB, Perlis ML, Voter W, Sauer W, Howard E, Cutter A, Donahue S, Ward DS. Sedation Related Respiratory Events In Patients With OSA. *SLEEP 2008 22nd Annual Meeting of the Associated Professional Sleep Societies, LLC, June 7-12, Baltimore, Maryland.*