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BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.
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NAME	POSITION TITLE
Alex Macario	Professor of Anesthesia & Health Research & Policy
eRA COMMONS USER NAME (credential, e.g., agency login)	
Macario	

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	MM/YY	FIELD OF STUDY
University of Rochester	B.A.	1986	Sociology
University of Rochester	M.B.A	1988	Health Economics
University of Rochester	M.D	1990	Medicine
Stanford University	Residency	1994	Anesthesiology
Stanford University	Fellowship	1995	Health services research

Please refer to the application instructions in order to complete sections A, B, C, and D of the Biographical Sketch.

A. Personal Statement

B. Positions and Honors

Positions and Employment

1990-1991 Intern, University of Pennsylvania, The Graduate Hospital, Philadelphia, PA
1991-1993 Resident, Dept. of Anesthesia. Stanford University Medical Center
1993-1994 Chief Resident, Dept. of Anesthesia, Stanford University Medical Center
1994 Research Fellow, Health Research and Policy, Stanford University
1996-2001 Assistant Professor of Anesthesia & Health Research & Policy, Stanford University
2001-2006 Associate Professor of Anesthesia & Health Research & Policy, Stanford University
2006- Professor of Anesthesia and Health Research & Policy, Stanford University
2006- Program Director, Anesthesia Residency, Stanford University
2006- Vice Chair for Education, Dept. of Anesthesia, Stanford University

Other Experience and Professional Memberships

1997- Director, Management of Perioperative Services Fellowship, Stanford University
2001-2002 Visiting Researcher, TAISS, Madrid, Spain
2007 Executive Committee, Faculty Senate, Stanford University School of Medicine
2009 Board Examiner, American Board of Anesthesiology

Honors

1985 Rigby - Wile Prize in Biology, University of Rochester
1991 Valdes - Dapena Research Prize, The Graduate Hospital, Philadelphia, PA
1995 American Society of Anesthesiologists: Resident Research Essay, 3rd Prize
2000 Association of University Anesthesiologists

2004 1st place, Literature Prize, American Society of Anesthesiologists
2009 Ellis N. Cohen Achievement Award (Dept. of Anesthesia's highest honor)

B. Selected peer-reviewed publications. (Publications selected from 89 peer-reviewed publications)

1. Macario A, Roizen M, Thisted R, Kim S, Orkin F, Phelps C. Reassessment of preoperative laboratory testing has changed the test-ordering patterns of physicians. Surgery, Gynecology, & Obstetrics 175:539-547, 1992
2. Macario A, Chang P, Stempel D, Brock-Utne J. A cost analysis of the laryngeal mask airway for adult elective outpatient surgery. Anesthesiology 83:250-257, 1995
3. Macario A, Hackel A, Gregory G, Forseth D. The demographics of inpatient pediatric anesthesia practice: implications for performance based credentialing. Journal of Clinical Anesthesia 7:507-511, 1995
4. Macario A, Vitez T, Dunn B, McDonald T. What does perioperative care really cost? analysis of hospital costs and charges for inpatient surgical care. Anesthesiology 83:1138-1144, 1995
5. Macario A, Vitez T, Dunn B, McDonald T, Brown B. Hospital costs and severity of illness in three types of elective surgery. Anesthesiology 86:92-100, 1997
6. Vitez T, Macario A. Setting performance standards for an anesthesia department. Journal of Clinical Anesthesia 10:166-175, 1998
7. Macario A, Horne M, Goodman S, Vitez T, Dexter F, Heinen R, Brown B. The effect of a perioperative clinical pathway for knee replacement surgery on hospital costs. Anesthesia & Analgesia 86:978-84, 1998
8. Macario A, Weinger M, Truong P, Lee M. Which clinical anesthesia outcomes are both common and important to avoid? The perspective of a panel of expert anesthesiologists. Anesthesia & Analgesia 88:1085-91, 1999
9. Macario A, Dexter F. Estimating the duration of a case when the surgeon has not recently performed the procedure at the surgical suite. Anesthesia & Analgesia 89:1241-1245, 1999
10. Macario A, Weinger M, Carney S, Kim A. Which clinical anesthesia outcomes are important to avoid? The perspective of patients. Anesthesia & Analgesia 89:652-8, 1999
11. Macario A, Chung A, Weinger M. Variation in practice patterns of anesthesiologists in California for prophylaxis of postoperative nausea and vomiting. Journal of Clinical Anesthesia 13:353-360, 2001
12. Macario A, Dexter F, Traub R. Hospital profitability per hour of operating room time varies among surgeons. Anesthesia & Analgesia 93:669-675, 2001
13. Macario A, Dexter F. What are the most important risk factors for a patient developing intraoperative hypothermia? Anesthesia & Analgesia 94:216-21, 2002
14. Macario A, McCoy M. The pharmacy cost of delivering postoperative analgesia to patients undergoing joint replacement surgery. The Journal of Pain, 4:22-28, 2003

15. Dexter F, Macario A. When to release allocated operating room time to increase operating room efficiency. Anesthesia & Analgesia 98:758-62, 2004
16. Macario A, El-Sayed YY, Druzin ML. Cost-effectiveness of a trial of labor after previous cesarean depends on the a priori chance of success. Clinical Obstetrics & Gynecology 47:378-385, 2004
17. Macario A, Dexter F, Lubarsky D. Postoperative recovery after anesthesia with sevoflurane or desflurane: a meta-analysis of randomized controlled trials. American Journal of Health-System Pharmacy 62:63-68, 2005
18. Dexter F, Wachtel RE, Sohn MW, Ledolter J, Dexter EU, Macario A.. Quantifying effect of a hospital's surgical specialty's caseload on that of another hospital using market segments including procedure, payer, and locations of patients' residences. Health Care Management Science 8:121-131, 2005
19. Carvalho B, Cohen SE, Lipman SS, Fuller A, Mathusamy AD, Macario A. Patient preferences for anesthesia outcomes associated with cesarean delivery. Anesthesia & Analgesia 101:1182-7, 2005
20. Dexter F, Macario A, Epstein R, Ledolter J. Validity and usefulness of method to monitor surgical services' average bias in scheduled case durations. Canadian Journal of Anesthesia 52(9):935-9, 2005
21. Macario A, Morris D, Morris S. Initial clinical evaluation of a hand-held device for detecting retained surgical gauze sponges using RFID technology. Archives of Surgery 141:659-662, 2006
22. Mariano ER, Chu LF, Ramamoorthy C, Macario A. Scheduling elective pediatric procedures that require anesthesia: the perspective of parents. Anesthesia & Analgesia 103:1426-31, 2006
23. Ilfeld BM, Mariano, ER, Williams BA, Woodard JN, Macario A. Hospitalization costs of total knee arthroplasty with a continuous femoral nerve block provided only in the hospital versus on an ambulatory basis: a retrospective, case-control, cost-minimization analysis. Regional Anesthesia Pain Medicine 32:46-54, 2007
24. Macario A, Dexter F, Sypal J, Cosgriff N, Heniford T. Operative time and other outcomes of the electrothermal bipolar vessel sealing system (LigaSure™) versus other methods for surgical hemostasis: a meta-analysis. Surgical Innovation 15:284-91, 2008
25. Egger Halbeis CB, Epstein RH, Macario A, Pearl R, Grunwald Z. Adoption of Anesthesia Information Management Systems by academic departments in the United States. Anesthesia & Analgesia 107:1323-1329, 2008

C. Research Support

Ongoing Research Support 2006-2010 (study on hold)
2R44 NR007915-02
SBIR Phase 2
Clinical study of RFID tagged surgical sponges and instruments
Role: Co-Investigator

A double-blind, multi-center, randomized, stratified, parallel, 2-arm, phase 2 study to assess palonosetron vs. ondansetron as rescue in patients that develop PONV in the PACU 2009-2010
Sponsor: Eisai
Role: Co-Investigator