

## CURRICULUM VITAE

Alan Steven Klein, M.D.

### PRESENT APPOINTMENT

Vice President, Pediatric Anesthesia Consultants, P.C., Denver, Colorado, 1995 - present  
Treasurer, CFO, Pediatric Anesthesia Consultants, P.C., Denver, Colorado, 2001 – 2006  
President, Pediatric Anesthesia Consultants, P.C., Denver, Colorado, 1997 - 1998

DATE OF BIRTH: February 27, 1953, Brooklyn, New York

### EDUCATION

B.A., Brandeis University, Waltham, Massachusetts, 1974  
M.D., Duke University School of Medicine, Durham, North Carolina, 1980  
Intern, Department of Pediatrics, University of California at San Diego Medical Center, San Diego, California, 1980 -1981  
Resident, Department of Pediatrics, University of California at San Diego Medical Center, San Diego, California, 1981 -1983  
Resident, Department of Anesthesia, Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts, 1984 -1986  
Fellow, Department of Anesthesia, Harvard Medical School, Boston, Massachusetts, 1984 -1987  
Fellow in Anesthesia and Critical Care, The Children's Hospital, Harvard Medical School, Boston, Massachusetts, 1986 -1987

### BOARDS

American Board of Anesthesiology  
Diplomate, April 10, 1987 No. 13980  
American Board of Anesthesiology  
Certificate of Special Qualifications in Critical Care Medicine, 1989  
American Board of Pediatrics  
Diplomate, January 17, 1988 No. 36899  
Examination Question Writer, 1988  
Pediatric Critical Care Medicine Sub-Board  
Diplomate, May 12, 1992 No. 397  
Examination Question Writer, 1992



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## LICENSURE

Colorado, #29260, 1989, exp. date: 5/31/09

DEA # BK0189109, exp. date: 12/31/08

## APPOINTMENTS

Physician, Bay Hospital Medical Center, Chula Vista, California, 1983-1984

Private Pediatric Practice, Chula Vista, California, 1983-1984

Medical Examiner, Examination Medical Services, Inc., San Diego, California, 1983-1984

Critical Care Transport Team, The Children's Hospital, Boston, Massachusetts, 1984-1986

Clinical Associate in Anesthesia, The Children's Hospital, Boston Massachusetts, 1985-1986

Staff Anesthesiologist, Shands Teaching Hospital, Gainesville Florida, 1987 - 1995

Attending Physician, Pediatric Intensive Care Unit, Shands Hospital at the University of Florida,

Gainesville, Florida, 1987 - 1995

Active Staff 1995 - present, Denver, Colorado:

Presbyterian/St. Luke's Hospital

St. Joseph Hospital

The Children's Hospital

Rose Medical Center

Porter Care Hospital

Swedish Medical Center

Littleton Hospital

Aurora Regional Medical Center

Aurora Presbyterian Hospital

Centennial Hospital Medical Center

Midtown Surgery Center

Centrum Surgery Center

Littleton Day Surgery Center

Parker Adventist Hospital

Crown Point Surgery Center

SkyRidge Medical Center

SkyRidge Day Surgery Center

Health South Aurora Surgery Center

Dry Creek Surgery Center

## HONORS AND AWARDS

Brandeis University, Academic Scholarship, 1970-1974

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#### VISITING PROFESSORSHIPS

Hospital de Niños, Santa Cruz, Bolivia, May 15-29, 1987  
Hospital de Niños Alejandro Mann, Guayaquil, Ecuador, May 10-24, 1988  
University of South Florida, Department of Anesthesiology, Tampa, Florida, January 23, 1990  
Pacific Presbyterian Medical Center, Department of Pediatrics, San Francisco, California, August 16-19, 1990  
University of Cuenca Faculty of Medicine, Cuenca, Ecuador, November 24-December 1, 1990  
Hospital Homero Castanier Crespo, Azogues, Ecuador, December 1-8, 1990  
Scheer Memorial Hospital, Banepa, Nepal, November 17-29, 1991  
Hospital Luis Vernassa, Guayaquil, Ecuador, May 17-28, 1993  
The National Pediatric Center for Congenital Maxillo-facial Pathology, Moscow, Russia, July 24-31, 1993  
Chiang Mai University, Chiang Mai, Thailand, November 1-5, 1993  
Chiang Rai Community Hospital, Department of Anesthesiology, Chiang Rai, Thailand, November 8-12, 1993  
University Hospital, Department of Anesthesiology, Bangkok, Thailand, November 15 - 19, 1993  
Hospital Leonardo Martinez Valenzuela, San Pedro Sula, Honduras, October 25 - December 1, 1997  
Howard Hubbard Memorial Hospital, Polomolok, South Cotabato, Mindanao, Philippines, September 5- 20, 1998  
Kilimanjaro Christian Medical College, Tumaini University, Moshi, Tanzania, March 6 - 12, 1999  
Selian Hospital, Arusha, Tanzania, December 1 - 8, 2000

#### SOCIETY MEMBERSHIPS

Alachua County Medical Society, 1987 - 1995  
American Academy of Pediatrics, Fellow, 1988 - present  
American Medical Association, 1990 - 1995  
American Society of Anesthesiologists, 1988 - 2006  
American Society of Critical Care Anesthesiologists, 1987 -1996  
American Society of Regional Anesthesia, 1985 - 1996  
Colorado Society of Anesthesiology 1995 - 2005  
Colorado Medical Association 1995 - 2006  
Denver Medical Society 1995 - 2006

Florida Medical Association, 1987 - 1995  
Florida Society of Anesthesiologists, 1987 - 1995  
International Anesthesia Research Society, 1984 - 1996  
Massachusetts Medical Society, 1984 - 1988  
Society of Critical Care Medicine, 1992 - 1995  
Society for Pediatric Anesthesia, 1987 - 2006  
Undersea Medical Society, 1985 - 1995

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## CONSULTANTSHIPS

Primate Nursery, San Diego Zoo Hospital, Jennings Center for Zoological Research, San Diego,  
California, 1983-1984

## COMMITTEE APPOINTMENTS

American Academy of Pediatrics

Section on Anesthesiology

Chairman, Ad Hoc Committee on Sedation Guidelines, 1993 - 2001

Editor, Handbook on Pediatric Anesthesiology, 1994

Society for Pediatric Anesthesia

Committee on Publications

Assistant Editor, SPA Newsletter, 1991 - 2003

Committee on International Relations, 1997 - 2004

American Society of Anesthesiologists

Committee on Pediatric Anesthesia, 1993 - 1996, 1996 - 1999

International Association for the Study of Pain

Committee on Regional Anesthesia, Special Interest Group on Pain in Children, 1991 - present

Interplast, Inc.

Committee on Anesthesia, 1997 - 2000

National Aeronautics and Space Administration, Emergency Care Team, 1988 - 1995

State of Florida, Division of Children's Medical Services, Permanent Consultant

The Children's Hospital, Boston

Department of Anesthesia, Resident Education Committee, 1986-1987

University of Florida

College of Health and Human Performance,

Department of Exercise and Sport Sciences

Dive Control Board, 1990 - 1994

College of Medicine

Sickle Cell Disease Comprehensive Program Committee, 1991 - 1994

Department of Anesthesiology

Committee on Conscious Sedation, 1990 - 1994

ECMO Task Force, 1989 - 1994

Liaison to Magnetic Resonance Imaging and Spectroscopy Task Force of the Department

of Diagnostic Radiology, 1988 - 1994

Library Committee, 1992 - 1994

Chairman, Pediatric Intensive Care Quality Assurance Committee, 1987-1994

Department of Pediatrics  
Quality Assurance Committee, 1991 - 1994

## BIBLIOGRAPHY

Alan S. Klein, M.D.

#### BOOKS, CONTRIBUTOR OF A CHAPTER

Kelley EW, Widner LR, Goodwin SR, Klein AS, Dabrow SM: Case 25, in Rogers MC, Helfaer MA (eds): Case Studies in Pediatric Intensive Care. Baltimore, Williams and Wilkins, 1993, pp 151-161.

#### REFEREED PUBLICATIONS

Sparkes ML, Klein AS, Duhaime AC, Mickle JP: Use of epidural morphine for control of postoperative pain in selective dorsal rhizotomy for spasticity. *Pediatr Neurosci* 15:229-232, 1989.

Sleasman JW, Hemenway C, Klein AS, Barrett DJ: Corticosteroids improve survival of children with AIDS and pneumocystis carinii pneumonia. *Am J Dis Child* 147:30-34, 1993.

#### Competitive Abstracts

Klein AS, Mickle JP: Epidural morphine for analgesia after selective dorsal rhizotomy--a report of 18 cases, abstracted. *Regional Anesth* 14:53, 1989.

Klein AS: Epidural fentanyl infusion after dorsal rhizotomy for postoperative analgesia in children, abstracted. *J Neurosurg Anesthesiol* 1:195-196, 1989.

Klein AS, Blanch PB, Koens JC Jr: A new nonferromagnetic ventilator for use during magnetic resonance imaging, abstracted. *Anesth Analg* 70:S208, 1990.

Klein AS, Freid EB, Vollers JM: Epidural fentanyl infusion for postoperative analgesia in children, abstracted. *Pain* 5(Suppl):S117, 1990.

Klein AS: Comparison of epidural fentanyl versus fentanyl plus bupivacaine continuous infusions

for control of postoperative pain after selective dorsal rhizotomy in children, abstracted.  
J Pain  
Symptom Management 6:163, 1991.

Klein AS, Blanch PG: Evaluation of six ventilators within the MRI environment,  
abstracted.  
Anesthesiology 75:A403, 1991.

Klein AS, Hemenway C, Sleasman JW, Barrett DJ: Methylprednisolone decreases  
mortality in  
children with HIV and pneumocystis carinii, abstracted. Proceedings of the First World  
Congress

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of Pediatric Intensive Care, Baltimore, Maryland, 1992, p 13.

Klein AS, Goodwin SR, Langham M, Jankowski R, Brunson M, Howard R:  
Maintenance of a  
prolonged anhepatic state with continuous automated blood exchange transfusion in a  
child after  
orthotopic liver transplant graft hepatectomy, abstracted. *Pediatr Crit Care Coll.* In  
press.

Klein AS, Berman LS, Koska AJ, Kunichika ET, Goodwin SR, Radson EA, Mickle JP:  
Safety of  
continuous perioperative epidural infusion after open dural surgery in children,  
abstracted.  
International Association for the Study of Pain. In press.

Klein AS, Goodwin SR, Langham M, Jankowski R, Brunson M, Howard R:  
Maintenance of an  
infant during prolonged anhepaticism by continuous automated blood exchange transfusion  
after  
orthotopic liver transplant graft hepatectomy, abstracted. *Medicina Intensiva* 17(suppl  
1):S115,  
1993.

#### Editorials and Invited Articles

Klein AS, Kunichika E: Intravenous general anesthesia is not intravenous sedation, letter  
to the  
editor. *Anesthesiology* 73:1055-1056, 1990.

Klein AS, Cohan MD: Bicycle helmets can prevent injuries, death, letter to the editor.  
*Independent Florida Alligator* 86(18):6, 1992.

Klein AS (commentor), Bolte RG, Stevens PM, et al: Mini-dose Bier block intravenous  
regional  
anesthesia in the emergency department treatment of pediatric upper-extremity injuries.  
*Pediatr  
Emerg Crit Care.* In press.

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## NONREFEREED PUBLICATIONS

### Noncompetitive Abstracts

Mickle JP, Sparkes M, Klein A, Duhaime AC: Pain control after selective rhizotomy in cerebral palsy, abstracted. Proceedings of the 17th Annual Meeting of the American Association of Neurological Surgeons. Scottsdale, Arizona, American Association of Neurological Surgeons, 1988, p 111.

Klein AS, Vollers JM: Epidural fentanyl infusion for postoperative analgesia in children, abstracted. Proceedings of the 3rd Pediatric Critical Care Colloquium. Santa Monica, California, 1989, p 107.

Sleasman JW, Hemenway C, Klein AS, Barrett DJ: Adjuvant corticosteroid therapy improves the survival of severe pneumocystis carinii pneumonia (PCP) in children with AIDS, abstracted. Clin Res 39:862A, 1991.

### Reviews

Klein AS (reviewer), Katoh T, Ikeda K: Minimum alveolar concentration of sevoflurane in children. Br J Anaesth 68:139-141, 1992, review. SPA Newsletter, Summer-Fall, 1992, p 10.

Klein AS (reviewer), Spear RM: Anesthesia for premature and term infants: preoperative implications. J Pediatr 120:165-176, 1992, review. SPA Newsletter, Summer-Fall, 1992, p 11.

Klein AS (reviewer), Nauguib M, Sharif AMY, Seraj M, et al: Ketamine for caudal analgesia in children: comparison with caudal bupivacaine. Br J Anaesth 66:559-564, 1991, review. SPA Newsletter, Summer-Fall, 1992, p 11.

Klein AS (reviewer), Marsh B, White N, Morton N, Kenny NC: Pharmacokinetic model driven infusion of propofol in children. *Br J Anaesth* 67:41-48, 1991, review. *SPA Newsletter*, Summer-Fall, 1992, p 14.

Klein AS (reviewer), Berg RA, Lloyd TR, Donnerstein RL: Accuracy of central venous pressure monitoring in the intra-abdominal inferior vena cava: a canine study. *J Pediatr* 120:67-71, 1992, review. *SPA Newsletter*, Summer-Fall, 1992, p 16.

Klein AS (reviewer), Hatch D, Fletcher M: Anaesthesia and the ventilatory system in infants and young children. *Br J Anaesth* 68:398-410, 1992, review. *SPA Newsletter*, Summer-Fall, 1992, p 14.

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Klein AS (reviewer), Halsall PJ, Ellis FR: Does postoperative pyrexia indicate malignant hyperthermia susceptibility? *Br J Anaesth* 68:209-210, 1992, review. *SPA Newsletter*, Summer-Fall, 1992, p 14.

Klein AS (reviewer), Dahl JB, Kehlet H: The value of pre-emptive analgesia in the treatment of postoperative pain. *Br J Anaesth* 70:434-439, 1993, review. *SPA Newsletter*, Summer-Fall, 1993, p 9.

Klein AS (reviewer), Rabey PG, Murphy PJ, Langton JA, Barker P, Rowbotham DJ: Effect of the laryngeal mask airway on lower oesophageal sphincter pressure in patients during general anesthesia. *Br J Anaesth* 69:346-348, 1992, review. *SPA Newsletter*, Summer-Fall, 1993, p 9.

Klein AS (reviewer), Alderson PJ, Burrow FA, Stemp LI, Holtby HM: Use of ultrasound to evaluate internal jugular vein anatomy and to facilitate central venous cannulation in paediatric patients. *Br J Anaesth* 70:145-148, 1993, review. *SPA Newsletter*, Summer-Fall, 1993, p 10.

Klein AS (reviewer), Hopkins PM, Ellis FR, Halsall PJ: Comparison of in vitro contracture testing with ryanodine, halothane and caffeine in malignant hyperthermia and other neuromuscular disorders. *Br J Anaesth* 70:397-401, 1993, review. *SPA Newsletter*, Summer-Fall, 1993, p 10.

Klein AS (reviewer), Ellis FR, Halsall PJ, Hopkins PM: The "K-type" caffeine-halothane responder susceptible to malignant hyperthermia? *Br J Anaesth* 69:468-470, 1992, review. *SPA Newsletter*, Summer-Fall, 1993, p 10.

Klein AS (reviewer), Yaster M, Tobin JR, et al: Local anesthetics in the management of acute pain in children. *Pediatrics* 124:165-176, 1994, review. *SPA Newsletter*, Summer-Fall, 1994, p 10.

Klein AS (reviewer), Russel SH, Hirsch NP: Anaesthesia and myotonia. *Br J Anaesth* 72:210-216, 1994, review. SPA Newsletter, Summer-Fall, 1994, p 10.

Klein AS (reviewer), Kanto WP: A decade of experience with neonatal extracorporeal membrane oxygenation (ECMO). *Pediatrics* 124:335-347, 1994, review. SPA Newsletter, Summer-Fall, 1994, p 10.

Klein AS (reviewer), Gidding SS, Camp D, et al: A policy regarding research in healthy children. *Pediatrics* 123:852-855, 1993, review. SPA Newsletter, Summer-Fall, 1994, p 10.

Klein AS (reviewer), David M, Andrew M: Venous thromboembolic complications in children. *Pediatrics* 123:337-346, 1993, review. SPA Newsletter, Summer-Fall, 1994, p 12.

Klein AS (reviewer), Craft JA, Alessandrini E: Comparison of oxygenation measurements in pediatric patients during sickle cell crises. *Pediatrics* 124:93-95, 1994, review. SPA Newsletter, A. S. Klein

Summer-Fall, 1994, p 15.

Klein AS (reviewer), Lejus C, Roussiere G, et al: Postoperative extradural analgesia in children: comparison of morphine with fentanyl. *Br J Anaesth* 72:156-159, 1994, review. SPA Newsletter, Summer-Fall, 1994, p 16. A. S. Klein

Klein AS (reviewer), Doyle E, Robinson D, et al: Comparison of patient-controlled analgesia with and without a back-ground infusion after lower abdominal surgery in children. *Br J Anaesth* 71:670-673, 1993, review. SPA Newsletter, Summer-Fall, 1994, p 16.

#### PAPERS SUBMITTED OR IN PREPARATION

Submitted

Gibby GL, Klein AS: Development of a modified laryngoscope for the magnetic

resonance  
imaging environment. *Anesthesiology*.

Hartmannsgruber M, Klein AS, Graves SA, Berman LS, Koska J III, Holway BP: Acute rhabdomyolysis following inhalation anesthesia without succinylcholine in a female child with Peter's anomaly. *Anesthesiology*.

Klein AS: Design of an ideal anesthetic environment for magnetic resonance imaging. *Anesthesiology*.

Koska AJ, Klein AS: Antibiotic prophylaxis in pediatric patients with ventriculoperitoneal shunts: a survey. *Pediatr Anaesth*

In preparation

Jankowski RA, Klein AS, Langham MP Jr, Eshbaugh WG: Late diagnosis of congenital diaphragmatic hernia with splenic infarction presenting as a pleural effusion and respiratory distress. Pediatrics.

#### PAPERS AND LECTURES PRESENTED

Epidural morphine for analgesia after selective dorsal rhizotomy--a report of 18 cases (April 1).  
14th Annual Meeting. American Society of Regional Anesthesia, Boston, Massachusetts, March 30-April 2, 1989.

Epidural fentanyl infusion after dorsal rhizotomy for postoperative analgesia in children. Annual Meeting. Society of Neurosurgical Anesthesia and Critical Care, New Orleans, Louisiana, October 13, 1989.

Management of difficult airway problems (November 19 and 21). Anesthesiology and Critical Care Update: 1989. Division of Critical Care Medicine, Department of Anesthesiology, A. S. Klein

University of Florida College of Medicine, Lake Buena Vista, Florida, November 18-22, 1989.

Assessment and management of the difficult airway and Workshop on fiberoptic intubation. Visiting Professorship. Department of Anesthesiology, College of Medicine, University of South Florida, Tampa, Florida, January 23, 1990.

A new nonferromagnetic ventilator for use during MRI (March 11). Annual Meeting. International Anesthesia Research Society, Honolulu, Hawaii, March 9-13, 1990.

Epidural fentanyl infusion for postoperative analgesia in children. Sixth World Congress on Pain. International Association for the Study of Pain, Adelaide, Australia, April 1-4, 1990.

Conscious sedation for the pediatric patient and Evaluation and management of difficult airways  
(August 17). Visiting Professorship. Pacific Presbyterian Medical Center, Department of Pediatrics, San Francisco, California, August 16-19, 1990.

Pediatric anesthesiology (daily clinical discussions). Visiting Professorship. University of Cuenca  
Faculty of Medicine, Cuenca, Ecuador, November 26-December 7, 1990.

Comparison of epidural fentanyl vs fentanyl plus bupivacaine continuous infusions for control of  
postoperative pain after selective dorsal rhizotomy in children. Second International Symposium  
on Pediatric Pain. McGill University, Montreal, Canada, April 24-27, 1991.

Pain management in children. Retreat. Pediatric Intensive Care Unit Nursing Staff,  
Gainesville,  
Florida, June 27, 1991.

Pain in children. Inservice Training. Children's Medical Center, Forth Worth, Texas,  
September  
24, 1991.

Evaluation of six ventilators within the MRI environment (October 28). Annual Meeting.  
American Society of Anesthesiologists, San Francisco, California, October 26-30, 1991.

Methylprednisolone decreases mortality in children with HIV and pneumocystis carinii  
(June 24).  
Annual Meeting. First World Congress of Pediatric Intensive Care, Baltimore, Maryland,  
June  
21-24, 1992.

Anesthesia on top of the world. Guest Lecturer. University of Florida College of  
Medicine,  
Gainesville, Florida, July 29, 1992.

Children in pain: recognition and management. 25th Annual Pediatric Postgraduate  
Education  
Pre-Football Game Seminars. Friends of Children Foundation, Inc., and University of  
Florida  
A. S. Klein

College of Medicine, Department of Pediatrics, Gainesville, Florida, October 10, 1992.

Clinical problems in fluid and blood therapy (November 22) and Anesthesia in the MRI

and other areas (November 23). Anesthesiology and Critical Care Update 1992. University of Florida College of Medicine, Department of Anesthesiology, Division of Critical Care Medicine and The Anesthesiology Alumni Association of Florida, Inc, Lake Buena Vista, Florida, November 21-25, 1992.

Maintenance of a prolonged anhepatic state with continuous automated blood exchange transfusion in a child after orthotopic liver transplant graft hepatectomy (March 28). Sixth Pediatric Critical Care Colloquium. Division of Critical Care Medicine and Department of Anesthesiology, The Children's Hospital of Philadelphia and the University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania, March 28-31, 1993.

Anesthesiology in radiology (June 12). 1993 District 8 Conclave. Florida Society of Anesthesiologists, Marco Beach, Florida, June 11-13, 1993.

Maintenance of an infant during prolonged anhepaticism by continuous automated blood exchange transfusion after orthotopic liver transplant graft hepatectomy (June 15). 6th World Congress on Intensive and Critical Care Medicine. Sociedad Espanola de Medicina Intensiva y Unidades Coronarias, Madrid, Spain, June 14-18, 1993.

Pain management in the infant and child. Hospital Grand Rounds. The National Pediatric Center for Congenital Maxillo-facial Pathology. Moscow, Russia, July 30, 1993.

Management of conscious sedation in children. North Central Florida Chapter of American Association of Critical Care Nurses, Gainesville, Florida, August 10, 1993.

Management of pain in children. Core Curriculum Series. University of Florida College of Medicine, Department of Pediatrics, Gainesville, Florida, October 12, 1993.

Fiberoptic laryngoscopic intubation; Pediatric pain and its current management; and Pediatric critical care. Visiting Professor. Chiang Mai University, Department of Anesthesiology, Chiang

Mai, Thailand, November 1-4, 1993.

Fiberoptic laryngoscopic intubation; Pediatric pain and its current management; and Pediatric critical care. Visiting Professor. Chiang Mai University, Department of Pediatrics, Chiang Mai, Thailand, November 5, 1993.

Fiberoptic laryngoscopic intubation; Pediatric pain and its current management; and Pediatric critical care. Visiting Professor. Chiang Rai Community Hospital, Department of Anesthesiology, Chiang Rai, Thailand, November 8-12, 1993.  
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Fiberoptic laryngoscopic intubation; Pediatric pain and its current management; and Pediatric critical care. Visiting Professor. University Hospital, Department of Anesthesiology, Bangkok, Thailand, November 15-19, 1993.

Surgical intervention and patient care in Equador and third-world countries. Guest Lecturer. The Association of Operating Room Nurses, Gainesville Chapter, Gainesville, Florida, October 21, 1993.

Postoperative nausea and vomiting. Guest Speaker. North Central Florida Post Anesthesia Care Nurses Society, Gainesville, Florida, January 8, 1994.

Volunteer medical care in the Third World (March 10). Seventh Annual Winter Medical Update. University of Florida College of Medicine, Office of Medical Alumni Affairs, Jackson Hole, Wyoming, March 6-11, 1994.

Postoperative nausea and vomiting. Guest Speaker. Central Florida Advanced Nursing Practice Council. Orlando, Florida, May 19, 1994.

Management of the difficult airway patient. Grand Rounds. North Florida Anesthesiology Association, Jacksonville, Florida, May 24, 1994.

## SCIENTIFIC EXHIBITS

Alan S. Klein, M.D.

Klein AS: Design of an ideal anesthetic environment for magnetic resonance imaging.  
Annual  
Meeting. American Society of Anesthesiologists, San Francisco, California, 1991.