

CURRICULUM VITAE

J. MICHAEL ALVIS

PERSONAL

ADDRESS	2412 Palmer Circle Norman, Oklahoma 73069
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DATE OF BIRTH	28 February 1959
MARITAL STATUS	Married
SPOUSE	Whitney R.B. Alvis

EDUCATION

AUBURN UNIVERSITY
Auburn, Alabama
Bachelor of Science, Chemistry
6 June 1982

UNIVERSITY OF ALABAMA AT BIRMINGHAM
Birmingham, Alabama
Master of Science, Biomedical Engineering
Directed by L.C. Sheppard, Ph.D.
3 June 1984
Thesis Title: Computed Assisted Continuous Infusion of
Fentanyl During Cardiac Anesthesia

UNIVERSITY OF SOUTH ALABAMA
College of Medicine
Mobile, Alabama
Doctor of Medicine
6 June 1988

POSITIONS

ANESTHESIA RESEARCH ASSISTANT

J.G. Reves, M.D.
Director of Research
Department of Anesthesiology
University of Alabama at Birmingham
Birmingham, Alabama
January 1983 - August 1984

ANESTHESIA RESEARCH ASSISTANT

J.G. Reves, M.D.
Chairman
Department of Anesthesiology
Duke University
Durham, North Carolina
Summer, 1985

MEDICAL SCHOOL EXTERNSHIPS

ANESTHESIOLOGY

Department of Cardiac Anesthesiology
Duke University
Durham, North Carolina
August 1987

INTERNAL MEDICINE

Royal Brisbane Hospital
Queensland, Australia
April 1988

PEDIATRICS

Royal Brisbane Hospital
Queensland, Australia
April 1988

INTERNSHIP

GENERAL SURGERY

Caraway Methodist Medical Center
Birmingham, Alabama
June 1988 - June 1989

RESIDENCY

NEUROSURGERY

Department of Neurosurgery
Eastern Virginia Graduate School of Medicine
Norfolk, Virginia
February 1990 - February 1995

FELLOWSHIP

SPINE FELLOWSHIP

Department of Neurosurgery
University of Utah
Salt Lake City, Utah
June 1994 - January 1995

BIBLIOGRAPHY

1. Reves JG, Spain JA, Ritchie RG: Continuous infusion of fentanyl during Cardiac anesthesia: An automated system. (Abstract) Anesth Analog 63:175-284, 1984
2. Govier AV, Alvis JM, Ritchie RG, Reves JG: Computers in perioperative clinical Management. Proceedings of the 17th Annual Hawaii International Conference on System Sciences. Volume II. 1984, pp 305-311.
3. Menkhaus PG, Reves JG, Alvis JM: Attenuation of heart rate response to intubation by a new beta-adrenergic blocking drug, esmolol. (Abstract) Soc of Card Anesth. 1984.
4. Alvis JM, Reves JG, Govier AV, Henling CE, Menkhaus PG, Spain JA, Ritchie RG: Computer assisted continuous infusion (CACI) of fentanyl during cardiac Anesthesia. Biomedical Engineering III: Recent Developments. Proceedings of the Third Southern Biomedical Engineering Conference, 1984, pp 53-56.
5. Reves JG, Alvis JM, Govier AV, Henling CE, Menkhaus PG, Spain JA: Comparison of continuous fentanyl administration: Open and closed loop automated methods versus a manual method. American Society of Anesthesiology. (Abstract) 61: A78, 1984.

6. Alvis, JM, Reves JG, Ritchie RG: Computer assisted continuous infusion of Fentanyl: Physician Closed Loop. (Abstract) 61:A181, 1984.
7. Menkhaus PG, Reves JG, Alvis JM, Govier AV, Henling CE: Attenuation of heart rate response to intubation by a new beta-adrenergic blocking drug, esmolol. American Society of Anesthesiology. (Abstract) Anesthesiology 61:A20, 1984.
8. Alvis JM, Reves JG, Govier AV, Menkhaus PG, Henling CE, Spain JA: Computer assisted continuous infusion of fentanyl during cardiac anesthesia: Comparison with a manual method. Anesthesiology 63:41-49, 1985.
9. Menkhaus PG, Reves JG, Kissin I, Alvis JM, Govier AV, Samuelson PN, Lell WA, Henling CE, Bradley E: Cardiovascular effects of esmolol in anesthetized humans. Anesth Anal 64:327-334m 1985.
10. Alvis JM, Reves JG, Sheppard LC: Computer assisted continuous infusion of fentanyl during general anesthesia: An interactive system, IEEE Transaction on Biomedical Engineering. BME-32 (5): 323-329, 1985.
11. Adams PA, Gelman S, Reves JG, Greenblatt DJ, Alvis JM, Bradley E: Midazolam pharmacodynamics and pharmacokinetics in dogs during acute hypovolemia. (Abstract) Anesth Anal 64:185, 1985.
12. Adams PA, Gelman S, Reves JG, Greenblatt DJ, Alvis JM, Bradley E: Midazolam pharmacodynamics and pharmacokinetics in dogs during acute hypovolemia. Anesth Anal 1985.7
13. Alvis JM, Flezzani P, Jacobs JR, Schilling M, Greenblatt DJ, Reves JG, Diazepam Pharmacokinetics and Pharmacodynamics during Induction of Anesthesia in CABG Patients. (Abstract) Society of Cardiovascular Anesthesiologists, 1984.
14. De Bruin N, Croughwell N, Reves JG, Alvis JM et al: Pharmacokinetics and Pharmacodynamics of Esmolol in Beta-Blocked Patients Undergoing CABG. (Abstract) Society of Cardiovascular Anesthesiology, 1986.
15. De Bruin N, Croughwell N, Reves JG, Alvis JM, et al: Heart Rate Response to Isoproterenol and Surgical Stress in Beta-Blocked Patients: Cardiosensitive vs.

- Noncardioselective Drugs. (Abstract) Society of Cardiovascular Anesthesia, 1986.
16. Glass P, Jacobs JR, Alvis JM, Bai S, Reves JG: Computer Assisted Continuous Infusion of Alfentanil During Noncardiac Anesthesia: A Comparison with a Manual Method. *Anesthesiology* 1986: 65:A546.
 17. Glass P, Jacobs, Alvis JM, Quill T, Bai S, Reves JG: The Efficacy of Gaseous Anesthesia vs. Intravenous Anesthesia Using a Computer Assisted Continuous Infusion Device. *Anesthesia Analgesia* 1986: 66:66.
 18. Alvis JM, Flezzani P, Jacobs JR, Schilling MM, Bai S, Greenblatt DJ, Reves JR: Diazepam Pharmacokinetics and Pharmacodynamics During Induction of Anesthesia in CABG Patients. (Abstract) Society of Cardiovascular Anesthesiologists, Montreal 1986.
 19. Flezzani P, Alvis JM, Jacobs JR, Schilling MM, Bai S, Reves JG: Sufentanil Disposition During Cardiopulmonary Bypass. *Canadian Anesthetists' Society Journal*, 1987 (In Press)
 20. Alvis JM, Gudeman SK: Ventriculo-peritoneal Shunts in Very Low Birthweight Infants. (Abstract) American Association of Neurological Surgeons. San Francisco, California 1992.

ABSTRACTS

1. "Preliminary Report of Twenty Titanium Hollow Screw Plating Procedures Performed Without Fluoroscopy" Joint Section on Disorders of the Spine and Peripheral Nerves, February 1993.
2. "Traumatic Posterior Superior Sagittal Sinus Occlusion from Depressed Skull Fracture: Management Techniques" American Association of Neurological Surgeons, April 1993.
3. "Caspar Anterior Cervical Plating: Indications, Complications, and Long Term Follow Up of Patients" Joint Section on Disorders of the Spine and Peripheral Nerves, February 1994.
4. "Caspar Anterior Cervical Plating: Indications, Complications, and Long Term Follow Up of Patients" American Association of Neurological Surgeons, April 1994.
5. "The First Population Based State-Wide Study of 32,435 Head Injury Patients" Congress of Neurological Surgeons, October 1995.

6. "Comparative Retrospective Review of 117 Consecutive Caspar and Synthes Anterior Cervical Platings: Indications, Complications, and Long Term Follow Up" Congress of Neurological Surgeons, October 1995.

PRESENTATIONS

1. "Ventriculoperitoneal Shunts in Very Low Birthweight Infants" Neurosurgical Society of the Virginias, January 1992
2. "Caspar Anterior Cervical Plating: Indications, Complications, and Long Term Follow Up of Patients" Neurosurgical Society of the Virginias, January 1993.
3. "Cranial Plating: Uses, Abuses and Cost Analysis" Neurosurgical Society of the Virginias, January 1993.
4. "Neurosurgery: A Decade of Change" National Surgical Assistant Society, November 1993.

AWARDS

1. Gage, Thompson and Crutchfield Award for the Best Resident Presentation at the Neurosurgical Society of the Virginias, January 1992.
2. Gage, Thompson and Crutchfield Award for the Best Resident Presentation at the Neurosurgical Society of the Virginias, January 1993.
3. Connell Neurosurgical Writing Award, Neurological Society of the Virginias, January 1993.

REFERENCES

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SOCIETY MEMBERSHIPS

American Medical Association
Oklahoma State Medical Association
Southern Neurosurgical Society
Congress of Neurological Surgeons
American Association of Neurologic Surgeons

LICENSURE

Alabama - License 14719
Virginia - License 010,044952
Oklahoma - License 19195
DEA-current

BOARD CERTIFICATION

American Association of Neurologic Surgeons (1997)
Fellow - American College of Surgeons (October 1999)

HOBBIES

Scuba Diving, long distance running, flying, novelist, and piano

WEB

www.alvis-md.net