



Mark Parkinson, Governor  
Betty Wright, Executive Director

KANSAS DENTAL BOARD

[www.kansas.gov/kdb](http://www.kansas.gov/kdb)

September 8, 2010

REF #CE10-55

Randy Pigg  
Conscious Sedation Consulting  
5988 Mid Rivers Mall Drive  
St. Charles, MO 63304

RE: Sedation LEVEL I Permit course approval, Continuing Education Approval

Dear Mr. Pigg,

The Kansas Dental Board's sedation course review member has approved your application for continuing education credit for the following course and has approved the course for Kansas dentists as meeting the standards required for training for a Level I permit for adult conscious sedation:

*"Adult Oral Sedation Permit Course"*

For November 12-14, 2010 at San Francisco Airport Marriott  
website: [www.SedationConsulting.com](http://www.SedationConsulting.com)

The Board has approved this course for 25 hours of CE. You must give certificates to those attendees **UPON COMPLETION** of the course. Without a certificate of completion, the Kansas Dental Board will not recognize the continuing education. You may reference the number above on your certificate for identification.

You might be interested to know that the Kansas Dental Board does accept any continuing education approved by the ADA Continuing Education Recognition Program (C.E.R.P). In order to receive approval as an ADA CERP provider you must contact the American Dental Association, Continuing Education Recognition Program. Their address is 211 E. Chicago Ave., Chicago, IL 60611. They also have a web site available at <http://www.ada.org>.

Sincerely,

Vanda Collins  
Senior Administrative Assistant

CE 10-55

Kansas Dental Board  
900 SW Jackson, Room 564-S  
Topeka, KS 66612  
Phone: 785-296-6400 Fax: 785-296-3116

APPLICATION FOR APPROVAL OF A COURSE THAT WILL MEET THE INITIAL REQUIREMENTS FOR ENTERAL CONSCIOUS SEDATION OR COMBINATION INHALATION-ENTERAL CONSCIOUS SEDATION (K.A.R. 71-5-10)

Title of Course: Adult Oral Sedation Permit Course

Date: November 12 - 14, 2010

Location: San Francisco Airport Marriott  
1800 Old Bayshore Highway  
Burlingame, CA 94010

Approximate Number of Participants: 40

Actual number of Clock Hours of the Course: 25

Clinicians/Instructors Names and Credentials (If additional sheets are attached, please note):  
John Hexem MD PhD (CV attached)  
Frank Grimaldi DDS (CV attached)

Sponsor: Conscious Sedation Consulting an ADA CERP approved provider of continuing education.

Coordinator/Contact Person: Randy Pigg  
Address: 5988 Mid Rivers Mall Drive  
St. Charles, MO 63304  
Phone Number: 888-581-4448  
Email address: Randy@SedationConsulting.com  
Website: www.SedationConsulting.com

I certify that this course:  
Provides comprehensive training in the administration and management of enteral conscious sedation or combination inhalation-enteral conscious sedation  
Includes training in patient evaluation and selection, use of equipment, personnel requirements, monitoring, documentation, patient medical management, and emergency management  
Includes a minimum of 18 hours of education and 20 clinical experiences, which may be simulation or video presentation, or both, but shall include at least one experience in which a patient is deeply sedated and returned to consciousness.

Signature of applicant *Randy Pigg* Date 8/16/2010

Is this course already AGD PACE or ADA CERP approved?  
YES ADA CERP Course# 10101028 Expiration Date: Nov. 2011

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AUG 16 2010  
Kansas Dental Board

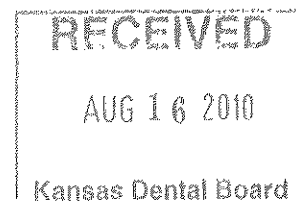
PACE or CERP approval is not required, but information about prior approval may assist in the processing of this application.

If this course is approved, the Kansas Dental Board may make information about the approval of, and contacts for this course available on the Board web site or in other communications.

If this course content changes substantially in the future, you must send an agenda or course outline, with a copy of this original application or the approval letter you received from the Kansas Dental Board, with a summary of changes made.

Notify the Kansas Dental Board when you discontinue this course.

**Attach agenda or course outline and return this completed application to the Board.**



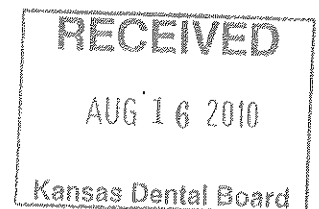


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## Curriculum for Adult Oral Sedation Permit Course - San Francisco CA.

November 12, 2010 – Day 1 (7:30 am - 5:00pm )

- 1) Culture of Safety
- 2) Epidemiology of safety issues in sedation practice
- 3) Scope of Practice
- 4) Credentials, Qualifications, Privileges
- 5) State Statutes, Rules and Regulations
- 6) Goals and Risks of Sedation
- 7) Philosophy and Psychology of Pain and Anxiety
- 8) Non-pharmacological methods
  - a. Recognition and assessment of anxiety
  - b. Communication skills
  - c. Behavioral modification
  - d. Hypnosis
- 9) Pain Pathways
- 10) Indications and planning for oral enteral sedation
- 11) Anatomy of the GI tract
- 12) Liver and renal function
- 13) Routes of Administration
- 14) Appropriate procedures
- 15) ASA Physical Status Classification
- 16) 2003 Conference on Triazolam (Halcion)
- 17) Inhalational Agents
- 18) Airway Anatomy
- 19) Airway Skills
- 20) Importance of obtaining intravenous access
- 21) Controlled Substances and addiction
- 22) Live clinical demonstration of at least 1 patient



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St. Charles, MO 63304

fax: 866.672.8844



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November 13, 2010 – Day 2 (8:00 am - 5:00 pm)

- 1) Patient Assessment
- 2) Common Adult Diseases and the Medically Complex Patient
- 3) Guidelines for sedation practice
  - a. American Academy of Pediatrics
  - b. American Society of Anesthesiologists
  - c. American Dental Society of Anesthesiologists
  - d. American Nursing Association
  - e. American Association of Nurse Anesthetists
- 4) Neurophysiology and monitoring including BIS Index
- 5) Implicit and Explicit Memory
- 6) Autonomic Nervous System
- 7) Respiratory Physiology and monitoring including pulse oximetry and capnography
- 8) Cardiovascular physiology and monitoring
- 9) Physiology of temperature control
- 10) Synergism in Pharmaceutical Action
- 11) Absorption and Bioavailability
- 12) Pharmacology
  - a. Plasma levels (Pharmacokinetics)
  - b. Context Sensitive plasma half-times
  - c. Biological Membranes
  - d. Receptor agonism and antagonism
  - e. Biochemical cascade and effect mechanisms
  - f. Non-specific CNS depression
  - g. Clinical effects and side effects
    - i. Benzodiazepines
    - ii. Narcotics
    - iii. Barbiturates
    - iv. Phenothiazines
    - v. Antihistamines
    - vi. Other sedative drugs
    - vii. Anesthetic drugs
    - viii. Reversal agents
- 13) Management of intra-procedure adverse events
  - a. Airway obstruction

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## Day – 2 continued

- b. Emesis and aspiration
  - c. Allergic reactions and anaphylaxis or anaphylactoid reactions
  - d. Laryngospasm
  - e. Bronchospasm
  - f. Oxygen desaturation and respiratory depression and apnea
  - g. Bradycardia, Tachycardia, Atrial fibrillation and other Cardiac Arrhythmias
  - h. Angina Pectoris and myocardial infarction
  - i. Hypotension and hypertension
  - j. Hypertension
  - k. Hypoglycemia
  - l. Syncope
  - m. Seizures
  - n. Cardiac Arrest
  - o. Agitation and Delirium
  - p. Hyperventilation
  - q. Technically difficult procedure
- 14) Documentation
  - 15) Recovery
  - 16) Discharge
  - 17) Follow – Up
  - 18) Process Improvement



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November 14, 2010 Day-3 (8:00 am - 5:00 pm)

- 1) Drug combinations including nitrous oxide
- 2) NPO Status
- 3) Gas cylinders
- 4) Oxygen administration
- 5) Inhalational sedation with nitrous oxide
- 6) Equipment and supplies for emergency resuscitation
- 7) Procedure room setup and check out
- 8) Positioning and patient protection
- 9) Routine clinical management
- 10) Management of a variety of clinical scenarios
- 11) Airway management
- 12) Establishing intravenous access
- 13) Transfer of care to recovery personnel
- 14) Recovery area characteristics
- 15) Recovery standards for patient monitoring and care
- 16) Discharge criteria and processes
- 17) Re-sedation Concerns
- 18) Discharge instructions
- 19) Transfer to an advanced level of care
- 20) Patient follow up
- 21) Documentation
  - a. Informed Consent
  - b. Patient Assessment and ASA Physical Status Classification
  - c. Intra-procedure Management
  - d. Transfer of care to recovery personnel
  - e. Documentation of recovery period
  - f. Discharge criteria
  - g. Discharge Instructions
  - h. Adverse Event reporting
- 22) Critical Event Analysis
- 23) Risk management and malpractice
- 24) Examination, Evaluations & Closing

JOHN G. HEXEM, MD, PhD

Address: Conscious Sedation Consulting, LLC  
2016 Clermont Crossing Dr., Suite F  
St. Louis, MO 63146  
314-359-4250  
[hexemjg@gmail.com](mailto:hexemjg@gmail.com) or [hexemjg@sedationconsulting.com](mailto:hexemjg@sedationconsulting.com)

Education:

1970		Walnut Hills High School, Cincinnati, Ohio
1974	B.S., M.S.	Yale University (Chemistry)
1979	M.D.	University of Cincinnati
1982	Ph. D.	University of Pennsylvania (Chemistry)

Postgraduate Training, Fellowships, Board Certification and Work Experience:

1974-1975	Research Associate, Florida State University, Tallahassee, Florida
1979-1980	Research Associate, University of Pennsylvania
1980-1981	Residency, Internal Medicine, Bryn Mawr Hospital, Bryn Mawr, PA
1981-1983	Residency, Anesthesiology, University of Pennsylvania
1983-1985	Fellowship in Anesthesiology and Chemistry, University of Pennsylvania
1987	Diplomat American Board of Anesthesiology
1986-1994	Assistant Professor of Anesthesiology, University of Pennsylvania, School of Medicine
1992-1994	Assistant Professor of Surgery, University of Pennsylvania, School of Medicine
1988-1994	Head, Liver Transplant Anesthesia Team, Hospital of the University of Pennsylvania
1994-1997	Director Anesthesia Services, Suburban General Hospital, Norristown, Pennsylvania
1998-2006	Medical Director Anesthesia Services, Phelps County Regional Medical Center
2002-2004	Chairman, Department of Surgery, Phelps County Regional Medical Center, Rolla, MO
2006-	Conscious Sedation Consulting
Present	Private practice primary care and pain management, St. Louis, MO

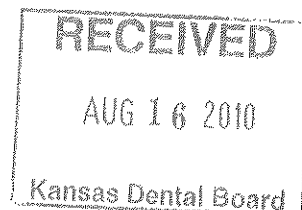
Licensure: Missouri

Awards: John A. and George L. Hartford Fellow 1986

Professional Societies: Missouri State Medical Association

Lectures by Invitation:

1. "Liver Transplantation", Medizinische Hochschule, Hanover, Germany, 1988
2. "Anesthetic Issues in Liver Transplant.", GI and Liver Disorders Symposium., New Brunswick NJ, 1991
3. "Anesthesia and Liver Disease", Dripps Conference, Philadelphia, PA 1991.
4. "Total Intravenous Anesthesia", Einstein Medical Center, Philadelphia, PA 1993
5. "Narcotic Infusion Anesthesia", Grand Rounds, Dept. Anesthesia Univ. Penn., 1993



Original Research:

1. Hexem JG, Edlund U, Levy GC, "Paramagnetic relaxation reagents as a probe for translational motion in liquids", J. Chemical Physics, 64: 936-941, 1976.
2. Hexem JG, Frey MH, Opella SJ, "Influence of  $^{14}\text{N}$  on  $^{13}\text{C}$  spectra of Solids", J. American Chemical Society, 103: 224-226, 1981.
3. Opella SJ, Hexem JG, Frey MH, Cross TA, "Solid State NMR of Biopolymers", Philosophical Transactions Royal Society London, A 299, 665-683, 1981.
4. Hexem, JG, Frey MH, Opella, SJ, "Molecular and Structural Information from  $^{14}\text{N}$ - $^{13}\text{C}$  dipolar couplings manifested in high resolution  $^{13}\text{C}$  NMR spectra of solids", J. Chem. Physics, 77: 3847-3856, 1982.
5. Hexem JG, et al "13C NMR of crystalline morphine", J.American Chemical Society, 105: 5717-5719, 1983.
6. Hexem, JG, "Halothane reversibly decreases phosphocreatine levels in uterine smooth muscle", Society of Magnetic Resonance in Medicine, 9th annual Meeting, New York, 1990
7. Shangraw RE, and Hexem, JG, "Anesthesia for Liver Transplantation", Anesthesiology Reports, 3: 371-377, 1991.
8. Shangraw RE and Hexem JG, "Glucose and Potassium Metabolic Responses to Insulin During Liver Transplantation", Liver Transplantation and Surgery, Vol 2, 443-454, 1996.
9. O'Hara, D., Hexem JG, Derbyshire G, Overdyk, FJ, Chen B, Henthon TK, Li JK-J, "The use of a PID controller to model vecuronium pharmacokinetics and pharmacodynamics during liver transplantation.", IEEE Trans. Bio. Med. Eng; 610-19; 1997

Frank Grimaldi DDS  
450 Sutter Street  
San Francisco CA 94108  
416-986-4556

San Francisco sedation dentist Frank Grimaldi received his bachelor's degree in Biology from San Jose State University in 1976, graduating Tau Delta Phi scholastic honor society and dean's list commendations from the School of Science. He received his D.D.S. degree from the University of California, San Francisco, graduating with a class rank of 1st in class and receiving a regent's scholarship

Omicron Kappa Epsilon dental honor society award as well as the Alpha Omega award for scholastic excellence. He completed residency training in hospital dentistry at the University of California, San Francisco in 1982 with a specific focus on painless dentistry for medically compromised developmentally disabled or phobic patients. Dr. Grimaldi joined the University of California, San Francisco faculty in 1983 as the Director of the General Practice Residency in hospital dentistry serving in that capacity currently. Since 1987, he has served as the director of hospital dentistry, offering painless dental treatment in an operating room setting. Dr. Grimaldi is currently a Clinical Professor in the Department of Oral & Maxillofacial Surgery, School of Dentistry at the University of California, San Francisco.

Dr. Grimaldi is a member of the Omicron Kappa Epsilon National Honorary Dental Society, the Academy of General Dentistry, the American Association of Hospital Dentists, the California Society of Medicine and Surgery and the Academy of Dentistry for Persons with Disabilities. Dr. Grimaldi is certified in Advanced Cardiac Life Support, holds state of California conscious sedation permit #2 and is qualified medical evaluator #9577 for the state of California. He has been recently inducted into the American College of Dentists.

<b>Dates</b>	<b>Institution/ Location</b>	<b>Degree/Title/ Status</b>	<b>Major/ Subject</b>
1972-1976	San Jose State University	B.A.	Biology
1977-1981	University of California, SF	B.S., D.D.S.	Dentistry (class rank: #1 of 89)
1981-1982	University of California, SF	Certificate	Hospital Dentistry
1998-	American College of Dentists	Fellow	

