

IV Sedation for the General Dentist: A Competency Course in Moderate Parenteral Sedation

2024

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Dates. First Session: July 26-27, 2024
Second Session: August 23-24
Third Session: November 8-9

Overview. Training in parenteral sedation allows dentists to safely and effectively treat patients who would otherwise not seek or receive dental care. This includes fearful patients, patients with special needs, and patients who simply desire sedation as part of complex treatment.

While many specialists in a given community offer sedation, they are typically not qualified or comfortable providing extensive restorative work, such as multiple operative restorations or crown preparations. For this reason, and to increase overall access to care, it is necessary to train general dentists in the appropriate use of parenteral sedation. Plus, it is a terrific practice builder!

Curriculum. This curriculum conforms to the recommended ADA Guidelines, *Teaching Pain Control and Sedation to Dentists and Dental Students*. As per guidelines, this course provides 60 hours of didactic instruction, and the clinical management of at least 20 patients. The Foundry Dental Center is a CODA approved AEGD education facility.

Our course has the following didactic requirements

- Didactic lectures in-class (53 hours)
- Online modules (5 hours)
- Didactic during clinical week training (5 hours)

Course Objectives. The successful candidate will, after completing this training, meet the following objectives.

1. List and discuss the advantages and disadvantages of moderate sedation.
2. Discuss the prevention, recognition and management of complications associated with moderate sedation.
3. Administer moderate sedation to patients in a clinical setting in a safe and effective manner.
4. Discuss the abuse potential, occupational hazards and other untoward effects of the agents utilized to achieve moderate sedation.

5. Describe and demonstrate the technique of intravenous access, intramuscular injection and other sedation techniques.
6. Discuss the pharmacology of the drug(s) selected for administration.
7. Discuss the precautions, indications, contraindications and adverse reactions associated with the drug(s) selected.
8. Administer the selected drug(s) to dental patients in a clinical setting in a safe and effective manner.
9. List the complications associated with techniques of moderate sedation.
10. Describe a protocol for management of emergencies in the dental office and list and discuss the emergency drugs and equipment required for the prevention and management of emergency situations.
11. Demonstrate the management of various medical emergencies in live-action drills.
12. Effectively evaluate patients and assess their suitability for moderate sedation; perform a satisfactory history and physical with review of systems.
13. Know principles of advanced cardiac life support and associated emergency equipment.
14. Pass a written examination documenting successful retention of facts and information necessary for performing moderate sedation.

Faculty.* Our faculty are academicians and private practitioners with a depth of experience and knowledge in the area of sedation, anesthesia, physiology, pharmacology, medicine, emergency management, and airway control. (*Faculty may change or substitute lecture materials as needed to accommodate schedules.)

Guy Rosenstiel, DMD, MAGD, MaCCS. After receiving training in anesthesia and sedation during a GPR residency, Dr. Rosenstiel continued his education in this field with training at the Medical College of Georgia. He introduced parenteral sedation into his private practice in 2008, and has since performed over 1000 successful sedation and anxiety management procedures. He received a Masters certificate in the College of Conscious Sedation (MaCCS) with the American Society of Dental Anesthesiology, and is calibrated as a faculty for simulation instruction for the ADA course on Emergency Medical Management. Dr. Rosenstiel currently serves as the course director for IV Parenteral Sedation for the Lutheran Medical Center AEGD program at the Foundry Dental Center in Bessemer, Alabama. He received his dental training at the UAB School of Dentistry, and is a Master in the Academy of General Dentistry.

Nitin Chhabra, MD. Anesthesiologist. Dr. Chhabra manages a private practice in Birmingham, Alabama, focused on pain management. He also performs outpatient anesthesia services for dental offices in the Birmingham area, and is therefore familiar with the unique requirements of moderate sedation for dental procedures.

Michael Edwards, DMD. Private practice. Dr. Edwards speaks nationally on the topic of sedation and anxiety management. He earned his Doctor of Dental Medicine degree from the University of Alabama School of Dentistry. Dr. Edwards received additional training in the United States Public Health Service and has earned his Fellowship and Mastership in the Academy of General Dentistry. Dr. Edwards is very active in the profession having served in all the offices of his Alabama district dental society and the Alabama Academy of General Dentistry, including president in 1995. Dr. Edwards has served as chairman of the ADA anesthesia committee and is serving on the ADA Council on Dental Education. Dr. Edwards lectures nationally on the subject of sedation and anxiety reduction in dentistry. In October of 2011, Dr. Edwards was awarded Fellowship in the International College of Dentists and served as a delegate to the American Dental Association. He has also received the Fellowship Award and the Mastership Award of the Academy of General Dentistry. Dr. Edwards currently serves as a Clinical Associate Professor at the UAB School of Dentistry.

Dennis Pillion, PhD. Pharmacologist. A professor in the School of Medicine, Dr. Pillion serves in the Department of Pharmacology and Toxicology. His past roles within the University include the Director of the Basic Science Systems Course, where he was responsible for the basic science education of UAB dental students. He has also served as the director of the Dental Pharmacology course. He has in-depth knowledge in the field of pharmacology of the medications used in enteral, parenteral, and inhalation sedatives, as well as the physiology associated with these medications.

Alan Davis. Instructor IV, Alabama Fire College. Mr. Davis has extensive experience in the field of Emergency Medicine. He is a trainer for multiple aspects of fire and emergency management, and has been an instructor since 1999. He owns Alabama Health and Safety Training, an American Red Cross Strategic Partner, and he trains thousands of students every

year. He has a relaxed but informative teaching style that makes the most complex concepts manageable for students.

Anthony Caputo, DDS. Past President, American Society of Dentist Anesthesiologists. President, Southwest Dental Anesthesia Services. Dr. Caputo graduated with honors from the University of Colorado Health Sciences Center, School of Dentistry and then pursued residency training in Hospital Dentistry at UCLA followed by Anesthesiology at the University of Pittsburgh, School of Dental Medicine. Dr. Caputo has a private practice limited to anesthesia providing office-based care for pediatric and adult patients. He is a Diplomat of the American Dental Board of Anesthesiology and the National Dental Board of Anesthesiology. Dr. Caputo is a Fellow of the American College of Dentists and the International College of Dentists. Additionally, he teaches local anesthesia and pain control at the Arizona School of Dentistry and Oral Health and Missouri School of Dentistry and Oral Health. He is Teaching Faculty for AEGD and Pediatric Dentistry residents at El Rio Health Center in Tucson, Winslow Indian Health Care Center and ASDOH. He is a sedation and anesthesia evaluator for the Arizona State Board of Dental Examiners and has served on the Anesthesia Committee for the Board as well as an Anesthesia expert for the Board. Dr. Caputo is a Past President of the American Society of Dentist Anesthesiologists. He serves as an Arizona Delegate to the ADA as well as Speaker of the House for the Arizona Dental Association. Dr. Caputo currently serves as the ADA Spokesperson for Anesthesia and recognized anesthesia expert.

Patrick McGee, DDS is a 2009 graduate of Louisiana Tech University with a Bachelor of Science degree in biological sciences with a minor in chemistry. Following graduation, he graduated from LSU School of Dentistry in 2013. He received awards for outstanding senior dental student from the Academy of General Dentistry. He was also awarded for his volunteer dental services by the American Association of Public Health Dentistry. Following dental school he completed a dental implantology education continuum through the American Academy of Implant Dentistry in Houston, TX and another through the Comprehensive Implant Residency Program in Bessemer, AL. He received his Fellowship in the Academy of General Dentistry in 2019 and is currently enrolled as a PhD candidate in Molecular Sciences and Nanotechnology at Louisiana Tech University. He is Fellowship eligible for the American Academy of Implant dentistry and is the current Northeast LA board member for

Louisiana Dental Services (a suborganization of the LA Dental Association) and is a past-president of the Northeast LA Dental Association. He is also a past adjunct clinical professor at the University of Louisiana-Monroe Dental Hygiene department.

Michael McCracken, DDS, PhD. Clinical Faculty. Dr. McCracken is a Professor at the UAB School of Dentistry as well as an Associate Director of the AEGD program in Alabama. Dr. McCracken serves as a clinical faculty for this course and is a strong advocate for “live patient” emergency medical scenarios. He serves as the Executive Director of the Foundry Dental Center.

Assessment. Course delegates will be assessed to determine competency in the area of moderate parenteral sedation. Assessments will include:

Written quizzes on lecture modules (online, and in class)

Final examination on didactic information (in class)

Test Sedation --- this is a formal clinical assessment of a test sedation that will document clinical competency in patient evaluation and sedation management

Emergency Management --- this is a formal clinical assessment that will evaluate the course delegate during a simulated medical emergency

All assessments are graded pass/fail. Delegates must pass all 4 assessment areas to receive a passing grade in the course.

Remediation. Delegates who fail a portion of the assessment must gain additional knowledge before challenging the exam again. This includes self-directed reading, as well as faculty-guided instruction. Delegates may then re-challenge the assessment. Delegates who fail 3 times must retake the course.

Licensure. To operate on patients in our clinic, you must have 1) a current, valid dental license to practice somewhere in the US, and 2) proof of professional insurance. Your professional insurance must list “Foundry Dental Center, 1700 6th Ave North, Bessemer, Alabama, 35020” as a Certificate Holder and Additional Insured.

State Board Approval. This course conforms to ADA guidelines for Moderate Parenteral Sedation. However, in most states, individual courses must be approved by the state dental board. It is incumbent upon each individual to send

this syllabus to your state board to verify that this course meets individual state requirements. Anyone is welcome obviously to take this course solely as a CE opportunity, but most clinicians will want to implement these techniques into their private practice, so contact your state agency to confirm acceptance of these credentials.

Clinicians from the following states have told us the course was approved in their respective states. It is your responsibility to confirm this acceptance.

Alabama, Louisiana, Mississippi, North Carolina, Tennessee, Virginia

Tuition. The cost of this course is \$16,500. This is one of the few courses in the country with actual “non-shared” patient experiences to gain the competency you need, and the chance to do dental procedures on your own patient. We want you to train like you will be doing it in your own office – sedating and doing the dentistry at the same time! A deposit of \$3,500 holds your spot in the course.

Didactic Curriculum. 63 Hours

Module Objectives & Syllabus

Schedule content subject to change.

Friday, Day 1 – July 26

7:50 AM Registration

8:00 AM Cardiac Rhythms Davis

Course delegates will receive training in recognizing a broad variety of cardiac rhythms (basics and abnormal) and discuss the clinical implications and management of these rhythms.

12 Noon Lunch

1:00 PM Local Anesthetics Caputo

Review of anatomy; Pharmacology of local anesthetics; Administration of local anesthetics; Advanced techniques

3:00 PM Inhalation Sedation Caputo

Equipment & techniques; Pulmonary exchange dynamics; Safety and physical plant upgrades; Indications and contraindications; Use with parenteral sedation; Pharmacology of agents used in inhalation sedation; Patient monitoring; Record keeping; Abuse potential

5:00 PM Adjourn

Saturday, Day 2 – July 27

8:00 AM Pain Overview Rosenstiel

Philosophy of anxiety and pain control; Review of physiologic and psychological aspects of anxiety and pain; Implementing effective pain

control in private practice; Definitions of sedation; Review of options;
Spectrum of sedation

9:00 AM Moderate Sedation Rosenstiel

Indications and contraindications; Techniques and clinical practices; Review of procedures performed under sedation

10:00 AM Emergency Cart Rosenstiel

Emergency clinical protocol will be taught, and the contents of our emergency cart explained. EZ-IO demonstration; Various airway devices;

11:00 AM Emergency Drugs Rosenstiel

12:00 PM Lunch

1:00 PM Small Group Emergency Drug Study Rosenstiel

2:00 PM Venipuncture Lecture and Lab Rosenstiel

Venous anatomy and critical anatomy; Armamentarium; Techniques; IV management; Avoiding complications

4:00 PM Adjourn

Dr. Pillion will provide pharmacology lectures via zoom (online recorded, asynchronous at your convenience) which will take approximately 4 hours. Please watch on your own and bring questions to next session.

Pharmacology ZOOM LECTURE Pillion

Pharmacology of medicines; Pharmacodynamics of sedative medications; Drug-drug interactions; Management of PONV; Reversal agents; Adverse side effects; Analgesics, sedatives and anxiolytics

=== SECOND SESSION =====

Friday, Day 3 – August 23

7:50 AM Registration

8:00 AM Oral Conscious Sedation Edwards

Patient evaluation and selection; Equipment & techniques; Advantages and disadvantages of technique; Indications and contraindications; Use with parenteral sedation; Pharmacology of agents used in OCS; Record keeping; Abuse potential

12:00 PM Lunch

1:00 PM Sedation in the Real World Edwards

What combination of drugs is effective; When to use parenteral vs. other methods; How to clinically assess sedation levels; Interaction between sedation and clinical dentistry; Sedation techniques; Monitoring techniques; The business side of sedation

6:00 PM Adjourn

Saturday, Day 4 – August 24

8:30 AM Cardiovascular Physiology McGee

9:00 AM Medical Emergencies & Common Diseases McGee

This introduction into emergency medicine presents the most common medical emergencies associated with the dental office, the diseases associated with them, and how to manage them.

10:00 AM Pulmonary Anatomy & Physiology McGee

11:00 AM Advanced Airway Management McGee

11:30 AM	General Anesthesia Overview	McGee
12:30 PM	Lunch	
1:00 PM	Medical Considerations in Dentistry	McGee
	Intersection of dentistry and medicine; cardiovascular implications for sedation; coagulopathies; respiratory evaluation and impact on sedation; hepatic evaluation; endocrine considerations.	
5:00 PM	Adjourn	

=== THIRD SESSION =====

Friday, Day 5 – November 8

8:00 AM	Patient Evaluation	Caputo
	History and physical; Physical exam; Medical history records; Social history; Family history and ROS; Medical “red flags”; ASA classification; Record keeping; Global patient assessment; Sedation consent	
10:00 AM	Lab: History and Physical	Caputo/Rosenstiel
12 Noon	Lunch	
1:00 PM	Monitoring & Recovery	Caputo
	Use of various techniques to monitor level of sedation; Observation, EKG, pulse-oximetry, other monitoring equipment; Sedation record and how to organize it; Recovery of patients	
3:00 PM	Clinical Use of Sedation Medications	Caputo
	This is a “real world” discussion of how to sedate patients, what drug combinations are effective on various patients, and how to practically	

communicate to patients and family about sedation experiences. How do different diseases affect sedation?

4:00 PM	Risk Assessment	Caputo
5:00 PM	Miscellaneous: IV fluids, Oxygen, IM Sedation	Caputo
6:00 PM	Adjourn	

Saturday, Day 6 (9 hours) – November 9

8:30 AM	Complications and Management	Caputo
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Venipuncture complications, drug interactions, respiratory support, other complications.

12:30 PM	Lunch	
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1:00 PM	IV Sedation Lab	Faculty
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Patient sedations are performed by faculty and course delegates to demonstrate patient evaluation, IV set-up, consent, records, monitors, using dental team to manage emergencies, emergency equipment, sedation techniques, airway protection, documentation, and recovery.

3:00 PM	Review	Rosenstiel/McCracken
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5:00 PM	Final Exam	Rosenstiel
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6:00 PM	Adjourn	
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Online Education (6 hours)

Delegates are required to complete the following learning modules before the start of the second session. Each module has a quiz. Each module is 1 hour.

Module 1. Medical Emergencies (McCracken).

This module will emphasize the prevention of medical emergencies, as well as the recognition of medical emergencies. Emphasis is on patient evaluation.

Module 2. Running a Medical Emergency (McCracken)

This module discusses how to prepare and drill your office staff to manage a medical emergency. Roles of staff members are discussed, as well as protocols for an emergency.

Module 3. Personal Stories of Drug Abuse (McCracken)

These individuals share their heart about drug abuse and how it can destroy lives in this poignant documentary.

Module 4. Example Sedation (Rosenstiel)

How to implement sedation into your daily practice.

Module 5. Quiz (Rosenstiel)

This pre-test gives delegates a run through on the types of questions which will be presented on the final exam to prepare them for the depth and scope of the assessment.

**Schedule subject to change without notice; faculty may be substituted on occasion.*

Clinical Curriculum

Objective: 20 patient experiences & emergency training

Clinicians will manage the moderate sedation of 20 patients by the intravenous route. Course delegates will be supervised by course faculty (see table below). Patients are limited to adults.

We do not typically use oral surgeons or physicians to cover clinical sedations, so course delegates will be sedating patients like a GP. In other words, we are limited to moderate sedation, not deep or general such is often utilized in oral surgery clinics. This is to the advantage of the delegate, as it is important to “practice like you play” and to learn techniques that are available to you legally, not techniques that are only available for oral surgeons and anesthesiologists. We work in a community clinic treating underserved individuals. All together, it is a rich, “real life” clinic which will be both challenging and rewarding for delegates learning sedation techniques.

Schedule. Delegates can register for the clinical education on first come first served basis. Each clinical session runs 3 days, from Wednesday to Friday. You will need to schedule 2 clinical sessions to complete your cases. Up to 2 clinicians may be training at one time.

Booking. For simplicity, these are the following steps for arranging your education in moderate sedation. All aspects can be scheduled through Ashley (contact aagp1981@outlook.com). Up to 2 delegates can book in any given clinical week (two maximum).

1. Pay deposit for the course.
2. Select clinical training week. (You must pay deposit before booking clinical training.)
3. Complete didactic course, online modules, and pass didactic exam. Obtain ACLS certification at your local training facility or fire station.
4. Return to clinic for clinical experiences.

Faculty Coverage. We adhere to ADA guidelines for faculty supervision. Course delegates can expect to only sedate some patients, and for others to provide both sedation and clinical care. This will help course delegates learn to sedate and work at the same time, safely and effectively, just like you will be doing in your own practice.

Typical Schedule. See below for sample faculty coverage.

	WEDNESDAY	THURSDAY	FRIDAY
8:30 AM	Clinic (McCracken)	Clinic (Rosenstiel)	Clinic (Rosenstiel)
10:30			
12:30 PM	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>
1:00 PM	Clinic (McCracken)	Clinic (Rosenstiel)	Clinic (Rosenstiel)
3:00 PM			
5:00 PM	Emergency Drills (McCracken)	Emergency Drills (Rosenstiel)	Open

Facilities. This course occurs primarily in the Foundry Dental Center AEGD facility in Bessemer, Alabama. This facility has 12 chairs and is equipped for parenteral sedation in the general dental office.

ACLS. Delegates are required to obtain ACLS certification before finishing the course.

Completion. You have 1 year to complete the course, else additional fees may apply.



COURSE AGREEMENT & UNDERSTANDINGS

Please sign below to indicate that you accept the following course provisions.

1. I must be actively licensed in the United States, and provide professional insurance as indicated in the course syllabus.
2. For most States, I must myself submit the course syllabus to my licensing agency or State Board to have the course approved.
3. Clinic privileges at the Foundry may be revoked at any time if the Faculty determine that I am not sufficiently trained to perform sedation procedures or other clinical duties. No refunds are offered in these cases.
4. I have 60 days from the time of my deposit to obtain a ruling from my State Board regarding the acceptability of this course to fulfill the particular requirements of that State. After 60 days, all deposits are non-refundable.
5. Not everyone will pass this course. Clinicians who fail the written or oral exams may be required to repeat the course at additional cost.
6. I have 1 year to complete the clinical sedations, else additional tuition fees may apply, or repeat of the entire course may be necessary, at the discretion of instructors.

Signature: _____

Print: _____

Date: _____