



MINNESOTA BOARD OF DENTISTRY

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SEDATION MONITORING AND IV ASSISTANT CERTIFICATION COURSE REQUIREMENTS FOR TRAINING CURRICULUM

For Licensed Dental Assistants & Dental Hygienists

Intended for Assisting with Moderate and Deep Sedation and General Anesthesia

Minimum course curriculum must include...

- **Didactic Training:** 12 hours
 - note: the Dental Anesthesia Assistant National Certification Exam (DAANCE) course satisfies this *didactic* requirement
- **Clinical Training:** 8 hours (trained to a level of clinical competency)
- **Venipunctures:** 6 successful (at least 2 on human subjects; may utilize simulators)
- **Student/Faculty Ratio:** 6:1 maximum

Course Prerequisites...

1. Minnesota licensed Dental Assistant or Dental Hygienist
2. Current CPR Certification (Health Care Provider level)
3. Must have nitrous oxide administration and monitoring certificate
4. Must be supervised by a dentist with sedation/general anesthesia certification

Courses shall include education and training in the following areas...

- **Basic Sciences:** Anatomy, Physiology, Pharmacology
- **Systemic diseases** and evaluation/preparation of patients for sedation
- **Basic fluid, electrolyte balance and therapy**—types of IV fluids, lines, and catheters
- **Sterile technique** and prevention of infection
- **Anatomy and physiology** related to venipuncture sites
- **Equipment** for initiation, maintenance of IV therapy
- **Anesthetic drugs** and techniques
- **Anesthesia equipment** and monitoring devices, monitoring techniques and recordkeeping
- **Office anesthesia emergencies** including respiratory depression, respiratory arrest, airway obstruction, bronchospasm, laryngospasm, hypotension, and bradycardia
- **Use of resuscitation equipment and medications** including reversal agents, automatic external defibrillators (AEDs) bag-valve-mask devices (BVM or AMBU), laryngeal mask airways (LMAs) and endotracheal intubation
- **Review of supervision requirements**

Didactic Lecture and Clinical Objectives (Supervised Requirements of Training)...

1. Gain the ability to assess patients for suitability & risk for venipuncture and IV assess
2. Knowledge of regional anatomy commonly used & most successful for IV insertion
3. Learn to identify complications & have knowledge of management of complications associated with IV insertion
4. Perform withdrawal of IVs and indwelling catheters
5. Learn stabilization techniques for IV catheters/IV lines
6. Know components of IV solutions commonly utilized with dental sedation
7. Know rules of asepsis in conjunction with venipuncture
8. Be aware of contamination by & risk of blood borne pathogens associated with direct blood contact
9. Demonstrate knowledge of pulmonary and cardiac physiology and anatomy
10. Demonstrate knowledge & familiarity of sedation medications, sedation reversal medications, and emergency medications; Onset and duration of action, desired effects, normal dose range, contraindications, interactions with other medications, possible side effects, adverse reactions and half-life of medications
11. Physically manage sedation medications, withdrawal from a vial, preparation, aseptic IV injection, assembly of syringe and needles
12. Learn rationale and function of required physiologic monitors mandated for use in conjunction with sedation technique
13. Demonstrate essential and proper record keeping for sedation, including vital signs, monitor readings, discharge criteria and significant sedation events
14. Establish and justify rationale for monitors, know how to read and interpret monitor signals, and know which changes in readings are significant
15. Assess ventilation and respiration by observation, viewing monitors, auscultation and feedback from the sedated patient
16. Be aware of and assure that discharge criteria are met before patient dismissal
17. Know the responsibility and timing of reporting adverse outcomes and or sedation complications
18. Know how to provide positive pressure ventilation

Clinical Competencies Required for Course Completion (ALL areas must be achieved)...

1. Monitor interpretation
2. Troubleshooting monitors
3. Application of monitors
4. Assessment to determine if sedation should proceed on day of treatment
5. Charting and recordkeeping
6. Management of emergencies
 - a. Respiratory depression
 - b. Apnea
 - c. Airway obstruction
7. Discharge procedures and criteria; removal of IV lines obtaining hemostasis
8. Management, function and maintenance of emergency medications and equipment
9. Initiate and place an intravenous infusion line/stabilize IV line
10. Demonstrate successful venipunctures: 6 (SIMS/human) with at least 2 on human subjects

Upon completion of an approved sedation monitoring/IV course, a licensee must submit documentation of completion to the Board of Dentistry to become certified.