

PRACTICAL CLINICAL COURSES

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Career Development Program

S3944

Sedation – Improving Patient Care

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Materials Included:

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Supplemental Materials
AGD Post-Test

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PRACTICAL CLINICAL COURSES

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PRACTICAL CLINICAL COURSES
Sources of Products and Most Common Drugs Discussed in
S3944 Sedation – Improving Patient Care
 Presented by Stanley F. Malamed, DDS & Gordon J. Christensen, DDS, MSD, PhD

Sedation – A Guide to Patient Management
Sixth Edition (Book by Dr. Stanley F. Malamed)

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MOST COMMON DRUGS	
Oral (PO)	Benzodiazepines (Triazolam, Midazolam)
Inhalation	N₂O - O₂
Intramuscular (IM)	Benzodiazepines (Midazolam)
Intravenous (IV)	Benzodiazepines (Midazolam) Opioids (Fentanyl, Meperidine, Hydromorphone)

Product names, the products themselves, and company names change rapidly. Please contact the companies shown to confirm current information.

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PROGRAM

S3944 Sedation – Improving Patient Care

CLINICIANS RESPONSIBLE:

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Dentist Anesthesiologist

Emeritus Professor of Dentistry

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Gordon J. Christensen, DDS, MSD, PhD

Founder and CEO, Practical Clinical Courses

Senior Consultant & Previous CEO, CR Foundation

Practicing Prosthodontist, Provo, Utah

GOALS & OBJECTIVES

At the completion of this video presentation, viewers should be able to:

1. Define a Dentist Anesthesiologist.
2. List the current dental specialties.
3. Define iatro-sedation.
4. Define pharmaco-sedation.
5. Define verbal sedation.
6. Define nitrous oxide sedation.
7. Define the four stages of CNS depression.
8. List the advantages and disadvantages of each type of sedation.
9. List the most common drugs for oral sedation.
10. List the most common drugs for inhalation sedation.
11. List the most common drugs for intramuscular sedation.
12. List the most common drugs for intravenous sedation.
13. List the education requirements for each sedation type.
14. List the success rates for each type of sedation.
15. State some complications associated with sedation.
16. Discuss and define titration of a drug.
17. List the types of sedation that can be titrated.
18. Define the safest types of sedation.
19. List candidates for general anesthesia.
20. Decide which of the types of sedation are best for your practice.

OVERVIEW

S3944 Sedation – Improving Patient Care

Sedation of some type is essential for a successful patient-accepted dental practice. However, the type of sedation used varies significantly among dentists. This presentation provides an overview of the types of sedation appropriate for typical dental practices; their advantages and disadvantages; how to become educated for each type; and how to implement them into practice. The following and other topics are included:

- Dentist Anesthesiologists
- Current dental specialties
- Iatro-sedation
- Pharmaco-sedation
- Verbal sedation
- Nitrous oxide sedation
- Four stages of CNS depression
- Advantages and disadvantages of each type of sedation
- The most common drugs for oral sedation
- The most common drugs for inhalation sedation
- The most common drugs for intramuscular sedation
- The most common drugs for intravenous sedation
- Education requirements for each sedation type
- Success rates for each type of sedation
- Complications associated with sedation
- Titration of a drug
- Types of sedation that can be titrated
- The safest types of sedation
- Candidates for general anesthesia
- Which of the types of sedation are best for different types of practices

SUPPLEMENTAL MATERIALS

S3944 Sedation – Improving Patient Care

1. Benzoni T and Cascella M. Procedural Sedation. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2022 Jan. 2022 Jul 4.
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3. Rossit M, Gil-Manich V, and Ribera-Urbe JM. Success rate of nitrous oxide-oxygen procedural sedation in dental patients: systematic review and meta-analysis. *J Dent Anesth Pain Med*. 2021 Dec;21(6):527-545. doi: 10.17245/jdapm.2021.21.6.527. Epub 2021 Nov 26.
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5. Oka S, Satomi H, Sekino R, Taguchi K, Kajiwara M, Oi Y, and Kobayashi R. Sedation outcomes for remimazolam, a new benzodiazepine. *J Oral Sci*. 2021 Jun 29;63(3):209-211. doi: 10.2334/josnusd.21-0051. Epub 2021 Jun 7.
6. Song S, Han M, and Kim J. Safety of chloral hydrate sedation in dental practice for children: an overview. *J Dent Anesth Pain Med*. 2020 Jun;20(3):107-118. doi: 10.17245/jdapm.2020.20.3.107. Epub 2020 Jun 24.
7. Saxen MA, Tom JW, and Mason KP. Advancing the Safe Delivery of Office-Based Dental Anesthesia and Sedation: A Comprehensive and Critical Compendium. *Anesthesiol Clin*. 2019 Jun;37(2):333-348. doi: 10.1016/j.anclin.2019.01.003. Epub 2019 Mar 22.
8. American Dental Association (ADA). *Guidelines for the Use of Sedation and General Anesthesia by Dentists Adopted by the ADA House of Delegates, October 2016*. Available at https://www.ada.org/-/media/project/ada-organization/ada/ada-org/files/resources/research/oral-health-topics/ada_sedation_use_guidelines.pdf?rev=b8b34313071d416a99182e8b37add4dd&hash=06A52EC1C4BA50BEA9ABAA5C3A6DD095
9. Gross JB, Bailey PL, Connis RT, Coté CJ, Davis FG, Epstein BS, Gilbertson L, Nickinovich DG, Zerwas JM, and Zuccaro G. Practice Guidelines for Sedation and Analgesia by Non-Anesthesiologists. *Anesthesiology*. 2002 Apr;96(4):1004-1017.

POST-TEST

S3944 Sedation – Improving Patient Care

1. Iatrogenic sedation:
 - a. is relaxation of the patient through the doctor's behavior.
 - b. uses non-drug techniques.
 - c. both a. and b.

2. Anesthesiology is now an ADA specialty of dentistry.
 - a. True
 - b. False

3. Most common fears of typical adults include:
 - a. public speaking.
 - b. going to the dentist.
 - c. heights.
 - d. all the above.

4. The most common medical emergency in dental practices is:
 - a. mild allergy.
 - b. seizure.
 - c. anaphylaxis.
 - d. syncope.

5. A medical emergency most commonly occurs in dental practice:
 - a. immediately before treatment.
 - b. during treatment.
 - c. during or after local anesthetic.
 - d. after the patient leaves the office.

6. The goal of sedation is to:
 - a. permit the stress-intolerant person to receive dental care.
 - b. prevent medical emergencies.
 - c. both a. and b.

7. The most common type of sedation used by dentists is:
 - a. oral.
 - b. inhalation.
 - c. inhalation plus oral.
 - d. none of the above.

POST-TEST (CONT'D)

S3944 Sedation – Improving Patient Care

- 8. The most successful dental sedation is:
 - a. inhalation.
 - b. intravenous.
 - c. intramuscular.
 - d. oral.

- 9. Titration of a drug allows the practitioner to stop the drug administration at will.
 - a. True
 - b. False

- 10. The two safest forms of drug-induced sedation are:
 - a. intravenous and oral.
 - b. intravenous and inhalation.
 - c. iatro-sedation and inhalation.
 - d. none of the above.

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