

PRACTICAL CLINICAL COURSES

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Career Development Program

V3937

Antibiotic Prescribing: Controversy or Consensus?

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Materials Included

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Supplemental Materials
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AGD Post-Test

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Sources of Products Discussed in

V3937 Antibiotic Prescribing: Controversy or Consensus?

Presented by: Karen Baker, R.Ph., MS & Gordon J. Christensen, DDS, MSD, PhD

1. **AAOS Guidelines on App**
American Academy of
Orthopaedic Surgeons
9400 W. Higgins Road
Rosemont, IL 60018
(847)823-7186
www.orthoguidelines.org/auc
2. **Accu-Chek Products**
Local Pharmacies
www.accu-chek.com
3. **A1CNow+ Professional by
PTS Diagnostics**
Henry Schein, Inc.
135 Duryea Road
Melville, NY 11747
(800)472-4346
(631)843-5500
www.henryschein.com
4. **Exergen TemporalScanner
Thermometer**
Exergen Corporation
400 Pleasant Street
Watertown, MA 02472
(800)422-3006
(617)923-9900
www.exergen.com
5. **Florajen Digestion**
Local Pharmacies
www.florajen.com
6. **Nelson's Pediatric Antimicrobial
Therapy**
American Academy of Pediatrics
345 Park Blvd.
Itasca, IL 60143
(800)433-9016
www.aap.org
7. **The Sanford Guide to
Antimicrobial Therapy**
Antimicrobial Therapy, Inc.
11771 Lee Hwy.
P.O. Box 276
Sperryville, VA 22740
(540)987-9480
www.sanfordguide.com
8. **Useful Information Resource**
www.cdc.gov/antibiotic-use
9. **Useful Information Resource**
www.idsociety.org
10. **Useful Information Resource**
www.ada.org/antibiotic-stewardship
11. **Useful Information Resource**
www.apua.org
12. **Useful Information Resource**
www.isac.world
13. **Useful Information Resource**
www.fda.gov/consumers/consumer-updates/combating-antibiotic-resistance

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

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PROGRAM

V3937 Antibiotic Prescribing: Controversy or Consensus?

CLINICIANS RESPONSIBLE:

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Iowa College of Pharmacy

Gordon J. Christensen, DDS, MSD, PhD

CEO, Practical Clinical Courses

CEO, CR Foundation

Practicing Prosthodontist, Provo, Utah

GOALS & OBJECTIVES

At the completion of this video presentation, viewers should know the following:

1. Explain antibiotic stewardship.
2. Explain the importance of penicillin allergies in dental practice.
3. List indications for prescribing antibiotics in dental practice.
4. Explain the American Association of Endodontics (AAE) and the American Dental Association (ADA) guidelines for prescribing antibiotics.
5. Explain how to choose the most appropriate antibiotic for specific situations.
6. List antibiotic therapy prescribing steps and patient assessment.
7. Describe a summary of the major clinical points from the May 2021 American Heart Association guidance.
8. Describe the ADA and American Academy of Orthopaedic Surgeons (AAOS) timeline for total arthroplasty prophylaxis.
9. Describe AAOS AUC (total exposure to a drug) applications in dental practice.
10. Discuss if antibiotics are indicated for dental implant placement.
11. Discuss if antibiotics are indicated for dental impaction removal.
12. Discuss if antibiotics are indicated for pericoronitis.
13. Discuss if antibiotics are indicated for patients with pacemakers.
14. Discuss if antibiotics are indicated for patients with breast implants.
15. Discuss if antibiotics are indicated before treating a diabetic patient.
16. Discuss if antibiotics are indicated for patients with organ transplants.
17. Discuss if antibiotics are indicated for patients with coronary artery stents.
18. Discuss if antibiotics are indicated for hemodialysis ports.
19. Discuss what dentists can do to reduce the continuing increase in antibiotic-resistant organisms.
20. List several resources for dental use of antibiotics.

OVERVIEW

V3937 Antibiotic Prescribing: Controversy or Consensus?

Antibiotic use is essential for various dental conditions. Dentists must know the mechanism for antibiotic effectiveness, when or if to use antibiotics, dosages, length of antibiotic duration and many other aspects of antibiotic knowledge.

The following and other topics are included in this video:

- Antibiotic stewardship
- The importance of penicillin allergies in dental practice
- Indications for prescribing antibiotics in dental practice
- The American Association of Endodontics (AAE) and the American Dental Association (ADA) guidelines for prescribing antibiotics
- How to choose the most appropriate antibiotic for specific situations
- Antibiotic therapy prescribing steps and patient assessment
- A summary of the major clinical points from the May 2021 American Heart Association guidance
- The ADA and American Academy of Orthopaedic Surgeons (AAOS) timeline for total arthroplasty prophylaxis
- AAOS AUC (total exposure to a drug) applications in dental practice
- If antibiotics are indicated for dental implant placement
- If antibiotics are indicated for dental impaction removal
- If antibiotics are indicated for pericoronitis
- If antibiotics are indicated for patients with pacemakers
- If antibiotics are indicated for patients with breast implants
- If antibiotics are indicated before treating a diabetic patient
- If antibiotics are indicated for patients with organ transplants
- If antibiotics are indicated for patients with coronary artery stents
- If antibiotics are indicated for hemodialysis ports
- What dentists can do to reduce the continuing increase in antibiotic-resistant organisms
- Several resources for dental use of antibiotics

SUPPLEMENTAL MATERIALS

V3937 Antibiotic Prescribing: Controversy or Consensus?

1. Infectious Disease Special Edition. (2022, January 28). *Antimicrobial Efficacy*. <https://www.idse.net/Review-Articles/Article/12-21/Antimicrobial-Efficacy/65945>.
2. Schmidt J, Kunderova M, Pilbauerova N, Kapitan M. A Review of Evidence-Based Recommendations for Pericoronitis Management and a Systematic Review of Antibiotic Prescribing for Pericoronitis among Dentists: Inappropriate Pericoronitis Treatment Is a Critical Factor of Antibiotic Overuse in Dentistry. *Int J Environ Res Public Health*. 2021 Jun 24;18(13):6796.
3. American Association of Endodontists. (2021, May 24). *Endodontics and Antibiotic Update*. <https://www.aae.org/specialty/newsletter/endodontics-and-antibiotic-update/>.
4. Ahmadi H, Ebrahimi A, Ahmadi F. Antibiotic Therapy in Dentistry. *Int J Dent*. 2021 Jan 28;2021:6667624.
5. Wilson, Walter R., et al. "Prevention of Viridans Group Streptococcal Infective Endocarditis: A Scientific Statement From the American Heart Association." *Circulation*, vol. 143, no. 20, 2021. *Crossref*, <https://doi.org/10.1161/cir.0000000000000969>.
6. Lockhart PB, Thornhill MH, Zhao J, Baddour LM, Davis J, McKnight PE, Gilbert GH, Mungia R, Mougeot JL. Prophylactic antibiotic prescribing in dental practice. *JADA*. 2020 Oct;151(10):770-781, E6.
7. Abushaheen MA, Muzaaheed, Fatani AJ, Alosaimi M, Mansy W, George M, Acharya S, Rathod S, Divakar DD, Jhugroo C, Vellappally S, Khan AA, Shaik J, Jhugroo P. Antimicrobial resistance, mechanisms and its clinical significance. *Dis Mon*. 2020 Jun;66(6):100971.
8. Goel D, Goel GK, Chaudhary S, Jain D. Antibiotic prescriptions in pediatric dentistry: A review. *J Family Med Prim Care*. 2020 Feb 28;9(2):473-480.
9. *Antibiotic resistance threats in the United States, 2019*. (2019). <https://www.cdc.gov/drugresistance/biggest-threats.html>, <https://stacks.cdc.gov/view/cdc/82532>.
10. Goff, Debra A., et al. "Review of Guidelines for Dental Antibiotic Prophylaxis for Prevention of Endocarditis and Prosthetic Joint Infections and Need for Dental Stewardship." *Clinical Infectious Diseases*, vol. 71, no. 2, 2019, pp. 455–62. *Crossref*, <https://doi.org/10.1093/cid/ciz1118>.

SUPPLEMENTAL MATERIALS (CONT'D)

V3937 Antibiotic Prescribing: Controversy or Consensus?

11. Lockhart, P. B., et al. (2019). Evidence-based clinical practice guideline on antibiotic use for the urgent management of pulpal- and periapical-related dental pain and intraoral swelling. *The Journal of the American Dental Association*, 150(11), 906–921.e12.
<https://doi.org/10.1016/j.adaj.2019.08.020>.
12. Durkin MJ, Feng Q, Warren K, Lockhart PB, Thornhill MH, Munshi KD, Henderson RR, Hsueh K, Fraser VJ; Centers for Disease Control and Prevention Epicenters. Assessment of inappropriate antibiotic prescribing among a large cohort of general dentists in the United States. *J Am Dent Assoc*. 2018 May;149(5):372-381.e1.
13. Quinn, Robert H., et al. “The American Academy of Orthopaedic Surgeons Appropriate Use Criteria for the Management of Patients with Orthopaedic Implants Undergoing Dental Procedures.” *Journal of Bone and Joint Surgery*, vol. 99, no. 2, 2017, pp. 161–63. *Crossref*, <https://doi.org/10.2106/jbjs.16.01107>.
14. Suda KJ, Henschel H, Patel U, Fitzpatrick MA, Evans CT. Use of Antibiotic Prophylaxis for Tooth Extractions, Dental Implants, and Periodontal Surgical Procedures. *Open Forum Infect Dis*. 2017 Nov 15;5(1):ofx250.
15. Thornhill MH, Dayer MJ, Durkin MJ, Lockhart PB, Baddour LM. Oral antibiotic prescribing by NHS dentists in England 2010-2017. *Br Dent J*. 2019 Dec;227(12):1044-1050.

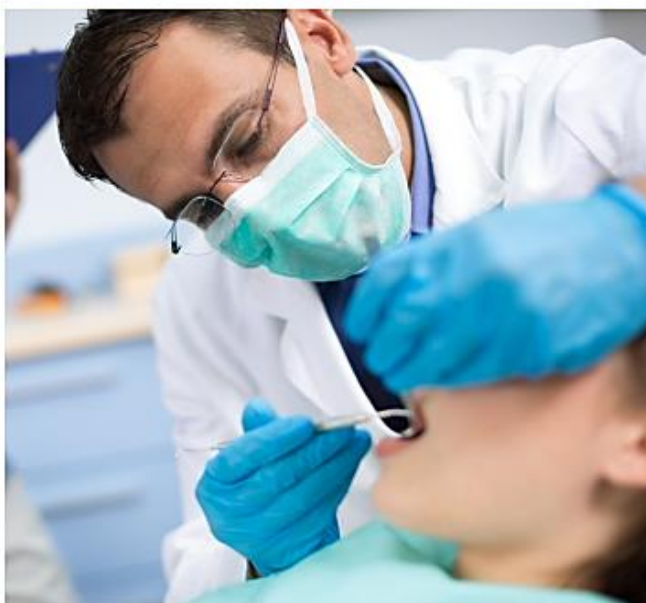
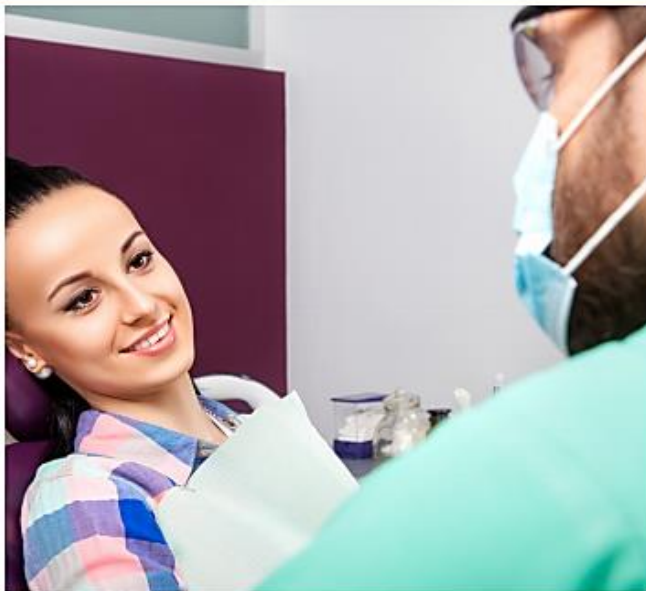
Antibiotic Safety: Do's and Don'ts at the Dentist

Do

- ✓ **DO** tell your dentist if you have any drug allergies or medical conditions.
- ✓ **DO** tell your dentist about any medications, vitamins, or herbal
- ✓ **DO** ask how some mouth infections can be treated without antibiotics.
- ✓ **DO** take your antibiotics exactly as prescribed.
- ✓ **DO** tell your dentist if you have side effects, such as frequent diarrhea, while taking, or shortly after stopping antibiotics.



Centers for Disease
Control and Prevention
National Center for Emerging and
Zoonotic Infectious Diseases



DO NOT

- X **DO NOT** skip doses or stop taking your antibiotics without consulting your dentist.
- X **DO NOT** save unused antibiotics for future use or give antibiotics to others.
- X **DO NOT** take antibiotics prescribed for others.
- X **DO NOT** pressure your dentist to prescribe an antibiotic. Instead, ask your dentist how you can feel better even if antibiotics are not prescribed.

To learn more about antibiotic prescribing and use, visit www.cdc.gov/antibiotic-use/.



POST-TEST

V3937 Antibiotic Prescribing: Controversy or Consensus?

1. Should antibiotic prescriptions by health practitioners be reduced?
 - a. Yes
 - b. No

2. For which situation should antibiotics USUALLY NOT be necessary?
 - a. Implant placement in a healthy patient
 - b. One canal endodontic treatment in a healthy patient
 - c. Routine tooth extraction
 - d. All the above

3. For which of the following is antibiotic treatment usually NOT necessary?
 - a. Short-term treatment of active infection
 - b. Prophylactic treatment to prevent an infection
 - c. Crown preparation
 - d. Post-surgical immunocompromised patient

4. Is it expected that more organisms will be untreatable in the near future?
 - a. Yes
 - b. No

5. The most-used antibiotic for dentistry is:
 - a. tetracycline.
 - b. amoxicillin.
 - c. PenVK.
 - d. none of the above.

6. Antibiotic treatment should usually be used when treating patients with:
 - a. coronary stents.
 - b. pacemakers.
 - c. endodontic treatment for tooth with active infection.
 - d. breast implants.

7. Antibiotic treatment is indicated for all joint replacements.
 - a. True
 - b. False

POST-TEST (CONT'D)

V3937 Antibiotic Prescribing: Controversy or Consensus?

- 8. Loading doses:
 - a. should be used routinely.
 - b. should be avoided.
 - c. should be used for some situations.

- 9. Prophylactic administration should be considered for:
 - a. valvular heart disease.
 - b. prosthetic heart valve.
 - c. history of endocarditis.
 - d. all the above.

- 10. The overall emphasis of this video is to:
 - a. use antibiotics only when indicated for specific reasons.
 - b. reduce the use of antibiotics.
 - c. recognize that every time you prescribe an antibiotic, it reduces the effectiveness of that antibiotic for future uses.
 - d. all the above.

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