

OUTLINE

Antimicrobials

Drug classes
Pharmacokinetic Properties
Concentration-dependent killing
Time-dependent killing
Post-antibiotic effect
Common interactions with other drugs

Antibacterial Allergies – Sulfa and Penicillin

Define true allergy
Sulfonamide antibiotics vs non-antibiotics
Penicillin – Cephalosporin cross-sensitivity

Bacteria

Differentiation
Normal flora
Common pathogens

Antibacterial Resistance–Contributing Factors

Trends
Mechanisms of resistance
Contributing factors

Methicillin-Resistant Staphylococcus Aureus - Community versus Hospital Acquired

Differentiating between CA- and HA-MRSA
Current clinical practice guidelines
Pharmacologic management

Enterobacteriaceae Resistance

Extended Spectrum Beta-Lactamase (ESBL)
What are ESBLs
Pharmacologic management
Carbapenem-Resistant Enterobacteriaceae (CRE)
What are CREs
Pharmacologic management

Urinary Tract Infections

Bacterial Etiology, Signs and Symptoms and Diagnosis
Cystitis and pyelonephritis
Complicated and uncomplicated
UTIs in pregnancy
Treatment (IDSA Guideline Treatment Algorithm)
Acute
Recurrent and relapse

Clostridium Difficile Infection

Risk factors
Pharmacology management
Fecal Transplantation
Probiotics literature review

Community–Acquired Pneumonia

Bacterial etiology
Diagnosis
Typical vs. atypical
Treatment (IDSA/ATS Guidelines) and monitoring
Outpatient vs. inpatient
Empiric treatment

Healthcare–Associated Pneumonia

Bacterial etiology
Treatment (IDSA/ATS Guidelines)

Upper Respiratory Tract Infections

Sinusitis and pharyngitis
Etiology (Viral vs. Bacterial)
Treatment

Skin and Soft Tissue Infections

Cellulitis
Bacterial etiology
Strep. vs. Staph. vs. MRSA
Signs & symptoms
Treatment (IDSA Guidelines)

Influenza

Clinical features
Diagnosis
Pharmacology management

Immunizations (Adult)

Types of Vaccines
General recommendations
Contraindications & precautions

Questions?

Call customer service at
800-844-8260


CANCELLATION POLICY: If you contact us before the event date, you can exchange for a DVD or CD/digital manual package on the subject (self-study continuing education credit may be available), a certificate to attend another seminar, or receive a tuition refund less a \$30 cancel fee. Substitutions are permitted at any time.



Have a seminar idea? A manuscript to publish?

The nation's top speakers and authors contact us first. If you are interested in becoming a speaker, or have a new topic idea, please contact Val Whitehead at vwhitehead@pesi.com or call (715) 855-8166.

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PHARMACOLOGY OF INFECTIOUS DISEASES & IMMUNIZATIONS

for Advanced Practice Clinicians

SCOTTSDALE, AZ
Monday, March 18, 2019

PHOENIX, AZ
Tuesday, March 19, 2019

LIVE VIDEO WEBCAST
Tuesday, March 19, 2019

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PHARMACOLOGY OF INFECTIOUS DISEASES & IMMUNIZATIONS

for Advanced Practice Clinicians

Featuring **Eric Wombwell, PharmD**

- Antimicrobials
- Preventive strategies to limit antimicrobial resistance
- C. Difficile
- UTIs
- Respiratory Infections
- Skin Infections
- Treatment (IDSA) guidelines
- Immunizations (Adult)

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PHARMACOLOGY OF INFECTIOUS DISEASES & IMMUNIZATIONS

Attend this seminar and learn proper prescribing, patient education and monitoring procedures for a variety of drug regimens used to treat common acute and chronic infectious diseases. Choosing an antibacterial agent can be challenging, given the plethora of drugs available on the market and the emerging trend in bacterial resistance.

You will learn the pharmacology of different classes of antimicrobials used to treat infectious disease states encountered in clinical practice. Discover the spectrums of activity, pharmacokinetic characteristics and parameters for monitoring therapeutic outcomes. Emphasis is placed on the new antimicrobials and advances in evidence-based treatment guidelines. You will leave this seminar better prepared to design appropriate and cost-effective drug regimens for improved therapeutic outcomes.

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SPEAKER
Eric Wombwell, PharmD, BCIDP, is a board certified infectious diseases pharmacist and Clinical Associate Professor for the Department of Pharmacy Practice and Administration at the University of Missouri - Kansas City, School of Pharmacy. Wombwell is responsible for developing clinical and educational initiatives designed to optimize student learning. He is active in lecturing, research and hospital pharmacy practice.

Dr. Wombwell completed his PharmD degree at the University of Missouri Kansas City, followed by an ASHP accredited pharmacy practice residency at the Kansas City VA Medical Center. Upon residency completion, Wombwell accepted a full-time non-tenured clinical faculty position at the University of Missouri – Kansas City, School of Pharmacy. His responsibilities include teaching Doctor of Pharmacy students in a variety of courses with special emphasis in the area of infectious diseases. As part of this position, Wombwell serves as a Clinical Pharmacy Specialist, working as part of the multidisciplinary team, providing care to acutely ill patients at Centerpoint Medical Center in Independence, Missouri. In addition, Wombwell functions in an adjunct faculty capacity with the University of Missouri – Kansas City, School of Dentistry where he is responsible for teaching infectious diseases curricular content to dental students in the Pharmacology and Therapeutics course series.

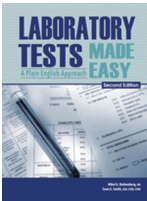
Dr. Wombwell has more than 20 peer-reviewed publications on pharmacy and medication-related topics, and has delivered more than 50 invited presentations locally and nationally for continuing education to various health-professional audiences. He has been named Teacher-of-the-year in various capacities 10-times, including “Missouri Pharmacist Association - UMKC Faculty Member of the Year” in 2016, and received the “UMKC Provost’s Award for Excellence in Teaching” in 2014.

Speaker Disclosures:
Financial: Eric Wombwell is a Clinical Assistant Professor, Department of Pharmacy Practice at the University of Missouri – Kansas City. He receives a speaking honorarium from PESI, Inc.
Non-financial: Eric Wombwell has no relevant non-financial relationships to disclose.

OBJECTIVES

1. Analyze the major classes of antibiotics and their pharmacokinetic characteristics.
2. Apply current evidenced-based approaches to select appropriate treatment regimens for common infections encountered in clinical practice.
3. Prescribe antimicrobials based on empiric dosing recommendations.
4. Plan goals of therapy and parameters for monitoring therapeutic response to antimicrobials.
5. Recommend specific antimicrobial therapeutic drug monitoring to maximize efficacy and minimize toxicities (e.g., vancomycin and aminoglycosides).
6. Develop preventative strategies to limit antimicrobial resistance.
7. Design patient and caregiver education on the proper use of antimicrobials.

SAVE BY INCLUDING THESE PRODUCTS WITH SEMINAR REGISTRATION!



Laboratory Tests Made Easy: A Plain English Approach, 2nd Edition

By Mikel A. Rothenberg, MD
& Sean G. Smith, BSN, RN, NREMT-P, FP-C, C-NPT, CCRN-CMC, CFRN, CEN, CPEN

This best-selling reference book provides both the “need to know” information, as well as the more in-depth “nice to know” details relevant to your patient’s lab results. In this Second Edition you will find plain English summaries, pertinent case studies, and easy to read diagrams and tables. This fully revised and updated book puts the information right at the fingertips of any medical professional at any experience level. (2014)



Geriatric Pharmacology: The Principles of Practice & Clinical Recommendations, 2nd Edition

By Steven Atkinson, PA-C, MS

This book is designed to explain the aging process and help the healthcare professional reduce the chance of a drug-disease interaction or adverse drug event. Special attention given to high-risk medications, minimizing polypharmacy and following essential guidelines in geriatric medicine.

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PESI Inc. is proud to offer this seminar (at these locations only) *free* of charge (on live seminar tuition) for veterans and active duty military personnel. **Advance registration by phone required.**

Live Seminar & Webcast Schedule (Times listed in Mountain)

- 7:30** Registration/Morning Coffee & Tea
- 8:00** Program begins
- 11:50-1:00** Lunch (*on your own*)
- 4:00** Program ends

There will be two 15-min breaks (mid-morning & mid-afternoon). Actual lunch and break start times are at the discretion of the speaker. A more detailed schedule is available upon request. For locations and maps, go to www.pesihealthcare.com, find your event, and click on the seminar title

Target Audience: Nurses • Advanced Practice Nurses • Clinical Nurse Specialists
Pharmacists • Nurse Practitioners • Physician Assistants

Live Seminar Continuing Education Credit Information

Credits listed below are for full attendance at the live event only. After attendance has been verified, pre-registered attendees will receive an email from PESI Customer Service with the subject line, “Evaluation and Certificate” within one week. This email will contain a link to complete the seminar evaluation and allow attendees to print, email or download a certificate of completion if in full attendance. For those in partial attendance (arrived late or left early), a letter of attendance is available through that link and an adjusted certificate of completion reflecting partial credit will be issued within 30 days (if your board allows). Please see “live seminar schedule” for full attendance start and end times. NOTE: Boards do not allow credit for breaks or lunch.

If your profession is not listed, please contact your licensing board to determine your continuing education requirements and check for reciprocal approval. For other credit inquiries not specified below, or questions on home study credit availability, please contact cepesi@pesi.com or 800-844-8260 before the event.

Materials that are included in this course may include interventions and modalities that are beyond the authorized practice of mental health professionals. As a licensed professional, you are responsible for reviewing the scope of practice, including activities that are defined in law as beyond the boundaries of practice in accordance with and in compliance with your professions standards.

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NURSE PRACTITIONERS: This program offers 380 instructional minutes of pharmacology content which is designed to qualify for 6.0 contact hours toward your pharmacology requirement to receive credit. It is your responsibility to submit your certificate of successful completion and a copy of the seminar brochure to your licensing board.



PHARMACISTS: PESI, Inc. is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. Successful completion of this Knowledge-based activity qualifies for 6.3 contact hours. ACPE Universal Program Number: 0289-0000-17-040-H01-P. Full attendance is required. No partial contact hours will be awarded for partial attendance. You are required to complete a program evaluation/post-test and bring your e-Profile ID to the seminar to receive CPE credit. Don’t have your e-Profile ID yet? Visit the National Association of Boards of Pharmacy (NABP) website and complete your e-profile at www.nabp.net in order to obtain your NABP e-Profile ID.

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OTHER PROFESSIONS: This activity qualifies for 380 minutes of instructional content as required by many national, state and local licensing boards and professional organizations. Save your course outline and certificate of completion, and contact your own board or organization for specific requirements.

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WALK-INS

Walk-ins are welcome but admission cannot be guaranteed. Call M-F 7:00-6:00 Central Time for space availability if registering within one week of seminar.

TUITION OPTIONS

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• **\$30 Tuition:** If you are interested in being our registration coordinator for the day, go to: www.pesihealthcare.com/coord for availability and job description, or call our Customer Service Dept. at 800-844-8260.

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PHARMACOLOGY OF INFECTIOUS DISEASES & IMMUNIZATIONS

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____ Seminar on CD* (audio) \$169.99 (RNA075830)

____ **Laboratory Tests Made Easy: A Plain English Approach**, Second Edition book* \$29.99 (PUB082860)

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