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

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for Advanced Practice Clinicians

Antimicrobials

 Preventive strategies to limit antimicrobial resistance

 Respiratory Infections Skin Infections Treatment (IDSA) guidelines Immunizations (Adult)



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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.

Leave this seminar better prepared to design appropriate and cost-effective drug regimens for improved therapeutic outcomes.

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 5. Recommend specific antimicrobial therapeutic 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.
- 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.

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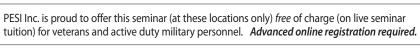
This best-selling reference book provides both the "need to know" information, as well as the more in-depth "nice to know" details relevant to your patient's lab results. In this Second Edition you will find plain English summaries, pertinent case studies, and easy to read diagrams and tables. This fully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

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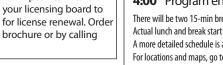
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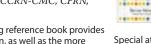
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