

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)
- Treatment Controversy

Upper Respiratory Tract Infections

- Sinusitis and pharyngitis
 - Etiology (Viral vs. Bacterial)
 - Treatment
- Bronchitis and Pertussis
 - Etiology (Viral vs. Bacterial)
 - Treatment

Skin and Soft Tissue Infections

- Cellulitis
- Diabetic foot infections
- Bacterial etiology
 - Signs & symptoms
 - Treatment (IDSA Guidelines)
- Osteomyelitis
 - Acute vs. Chronic
 - Oral considerations

Strategies to Improve Patient Adherence

- IMS Model (Information-Motivation-Strategy)
- Major predictors of poor adherence to medication

Antibacterial Resistance–Prevention Strategies

- Mechanisms for drug resistance
- 12 steps to prevent antimicrobial resistance (CDC)
- Antibiotic stewardship

Emerging and Reemerging Viral Infections

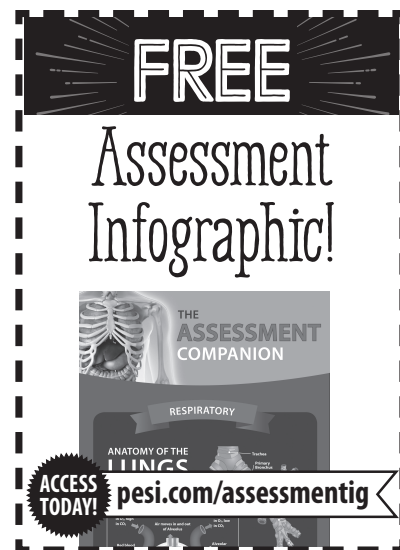
- Animals as sources
- Drivers and ecological factors
- Modes of transmission
- Pharmacology management

Influenza

- Clinical features
- Diagnosis
- Pharmacology management

Immunizations (Adult)

- Types of Vaccines
- General recommendations
- Contraindications & precautions



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PHARMACOLOGY

OF INFECTIOUS DISEASES & IMMUNIZATIONS

for Advanced Practice Clinicians

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Wednesday, December 4, 2019

EDISON, NJ

Thursday, December 5, 2019

PARSIPPANY, NJ

Friday, December 6, 2019

PHARMACOLOGY

OF INFECTIOUS DISEASES & IMMUNIZATIONS

for Advanced Practice Clinicians

Featuring **Angelica F. Dizon, MD, BSN, MBA-HCM, RN**

- 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

For Advanced Practice Clinicians

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

Angelica Dizon, MD, MSN, MBA-HCM, BSN, RN, NP-C, is a physician, advanced care practitioner and a register nurse, with more than two decades of experience in clinical practice. Angelica currently serves as the director of clinical services in one of the leading home healthcare agencies in Maryland. She has extensive past experiences both in the acute care and long term care settings as well. Her diverse experiences provide her with unique perspectives on the importance of an in-depth understanding of pharmacology. As a clinician, she sees complicated patient cases that often go beyond a simple infectious disease presentation. The care she delivers can be complicated by current and past medical histories, which requires keen insights to determine the medications and treatments that are going to support the patients healing. Angelica enjoys sharing her expertise and excels at putting complex topics in to a plain English approach. As such, she is a sought after presenter, sharing her vast knowledge with experienced interdisciplinary audiences across the country.

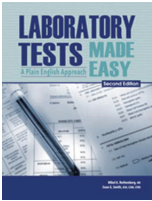
Speaker Disclosures:
Financial: Angelica F. Dizon is a faculty member for Radians College. She receives a speaking honorarium from PESI, Inc.
Non-financial: Angelica F. Dizon has no relevant non-financial relationships to disclose.

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.

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Pharmacists • Nurse Practitioners • Physician Assistants

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& Sean G. Smith, BSN, RN, NREMT-P, FP-C,
C-NPT, CCRN-CMC, CFRN, CEN, CPEN

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