

OUTLINE

Bacterial Characteristics

Cell envelope characteristics
Gram stain procedures
Gram positive & Gram negative organisms

Antibiotic Prescribing Background

Interpreting culture & sensitivity
Inhibitory concentration vs. bactericidal concentration
Empiric vs. targeted therapy
Antibiogram

Medication Allergy vs. Adverse Effect

Defining true allergic response
PCN-Carbapenem cross reactivity

Antibiotic Resistance

MRSA
VRE
Extended Spectrum Beta-Lactamases
Klebsiella Pneumoniae
Carbapenemase

Drug Resistant Threats in the U.S.

C. Diff
CRE
Neisseria Gonorrhoea
Tuberculosis

Current CDC Guidelines

Antibiotic stewardship
Start and stop recommendations

NEW Antibiotics for 2016 & 2017

Signs & symptoms
Causative organisms
Pharmacologic management
Non-pharmacologic management for:
Pneumonia
Bronchitis

Sinusitis
Pharyngitis
Acute Cystitis
Catheter-related UTIs
Pelvic Inflammatory Disease
Brain Abscess
Meningitis
Cellulitis
Diabetic Foot Ulcers
Osteomyelitis
Influenza
Human & Animal bites

Common Effects of Antibiotics on Other Medications

Cardiac medications
Anti-seizure medications
Anticoagulants
Antifungal agents

Bioterrorism: Diagnosis & Treatment

Bacillus anthracis
Clostridium botulinum
Yersinia pestis
Francisella tularensis

CDC Immunization Schedule for Adults

Types of vaccines
Indications & Contraindications



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PHARMACOLOGY OF INFECTIOUS DISEASES AND IMMUNIZATIONS

for Advanced Practice Clinicians

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Monday, September 18, 2017

SILVER SPRING, MD
Tuesday, September 19, 2017

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Wednesday, September 20, 2017

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OF INFECTIOUS DISEASES AND IMMUNIZATIONS

for Advanced Practice Clinicians

Featuring **Dr. Paul Langlois, APN, PhD, CCRN, CCNS, CNRN**

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- Skin Infections
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PHARMACOLOGY OF INFECTIOUS DISEASES AND 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

Dr. Paul Langlois, APN, PhD, CCRN, CCNS, CNRN, is a critical care clinical specialist in the Surgical, Medical, Neuro, CCU and Trauma ICUs of Cook County Hospital, Chicago. Drawing on over 30 years of experience assessing and managing patients with life-threatening diseases, Dr. Langlois provides advanced-level training to nurses, physician assistants, nurse practitioners and physicians.

Dr. Langlois is committed to providing the highest quality of care to patients through advanced education. His presentations are evidence-based, timely and provide participants with case studies to facilitate critical thinking. As a bedside clinical nurse specialist, he has developed several critical care and infection control institution-wide protocols for the multidisciplinary assessment and management of the cardiac and septic patient. Paul's cardiac protocols include: weaning from mechanical ventilation, pulmonary artery catheter and hemodynamic monitoring, vasoactive medications, ventricular assist devices, renal replacement therapy, and neurologic alterations after trauma.

His presentations are enthusiastically delivered and offer practical tips that help make the most challenging concepts easy to understand. Linking knowledge to practice is the goal of every education program.

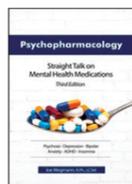
Speaker Disclosures:

Financial: Paul Langlois has an employment relationship with Cook County Hospital. He receives a speaking honorarium from PESI, Inc. Non-financial: Paul Langlois has no relevant non-financial relationship to disclose.

OBJECTIVES

- Analyze the major classes of antibiotics and their pharmacokinetic characteristics.
- Apply current evidenced-based approaches to select appropriate treatment regimens for common infections encountered in clinical practice.
- Distinguish between different types of bacterial etiology and mechanisms of resistance.
- Compare empiric dosing of antimicrobials.
- Recognize important interactions between antimicrobials and other drugs.
- Plan goals of therapy and parameters for monitoring therapeutic response to antimicrobials.
- Recommend specific antimicrobial therapeutic drug monitoring to maximize efficacy and minimize toxicities (e.g., vancomycin and aminoglycosides).
- Develop preventative strategies to limit antimicrobial resistance.
- Design patient and caregiver education on the proper use of antimicrobials.
- Differentiate local and global ecological factors affecting promotion of viral infection emergence.
- Plan for vaccines that are currently recommended for routine administration.

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By Joseph F. Wegmann, Pharm.D., LCSW

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Geriatric Pharmacology: The Principles of Practice & Clinical Recommendations, Second 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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MIDWIVES: ACNM specialty credit has been applied for.

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- 11:50-1:00** Lunch (*on your own*)
- 4:00** Program ends

10 – 15 minute mid-morning and mid-afternoon breaks

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