Mastering Lab Interpretation

The Implications for Patient Care

- Understanding the Differential: Including “Shift to the Left”
- Identify Types of Acute Kidney Failure from the Labs
- Life-Threatening Electrolyte Imbalances and Interventions
- Master ABG Interpretation Using a Simple Tool
- Reading Cultures and Sensitivities
- Lab and EKG Clues to Differentiate ACS and MI

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

Target Audience: Nurses • Nurse Practitioners • Clinical Nurse Specialists • Physician Assistants

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Clinical Nursing Assessment Skills Pocket Guide
By Cyndi Zarbano, MSN, BSN, CCRN, CMSRN, CLNC, NLCP

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Coagulation-Thrombotic Risk Panels: Clues to Clotting
The Clotting Cascade
This Right Lab Test for the Medication
aPTT
PT
INR
D-dimer
Disseminated Intravascular Coagulopathy
Urinalysis: Does Your Patient Have a UTI?
Latest Guidelines
Culture
Blood Gases: Identifying the Underlying Abnormality
Three Types of Gases
Interpreting Arterial Blood Gases: It’s Easier Than You Think!
Venous Blood Gases
Mixed Venous Blood Gases
Labs and Sepsis: Taking a Team Approach
Cultures, Gram Stains and Sensitivities
Systemic Inflammation
Labs of Sepsis
• Lactate Levels
• Procalcitonin Levels
• WBCs
• Neutrophils
Lumbar Punctures / Cerebral Spinal Fluid
Bacterial Meningitis
Viral Meningitis
Viral Encephalitis
Understanding Thyroid Dysfunction
TSH
T4 Levels
T3 Uptake
Differentiating Hyperglycemic States
DKA
HHS (HHNK)
Treatment for Each

Can’t Miss Topics!
- Understanding the Differential: Including “Shift to the Left”
- Identify Types of Acute Kidney Failure from the Labs
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- Master ABG Interpretation Using a Simple Tool
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Mastering Lab Interpretation

Back By Popular Demand!

OUTLINE

Basic Metabolic Profile (BMP)
Glucose
Acid Base
Renal Function
Electrolytes
Life-Threatening Electrolytes
• Potassium
• Magnesium
• Sodium
• Calcium

Comprehensive Metabolic Panel: Indications and Implications
LFTs: Exploring the Liver
AST/ALT/ALP/Total Bilirubin/Proteins
Health Issues in Liver Failure
• Jaundice
• Ascites
• Hepatic Encephalopathy

CSC with Differential: Interpreting the Components
What Can Impact WBC and Neutrophil Findings
Anemia/Pancytopenia
Understanding the Differential
The Left Shift Explained
Guidelines on Transfusing have Changed

Acute Renal Failure: Identify the Cause
Creatinine
BUN
BUN/Cr ratios
Glomerular Filtration Rate
Urine Osmolality
FENA

Cardiac Labs: Ischemia vs. Myocardial Infarction
Cardiac Panels
EKG Clues: Supporting the Findings
Distinguishing STEMI vs. NSTEMI
BMP
Pro-BNP

Urinalysis: Does Your Patient Have a UTI?
Disseminated Intravascular Coagulopathy
D-dimer
INR
PT
aPTT

The Right Lab Test for the Medication

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- Master ABG Interpretation Using a Simple Tool
- Systemic Inflammation of Sepsis: Lactate/Procalcitonin Levels
- Reading Cultures and Sensitivities
- The Clues to Liver Failure: Understanding LFTs
- Lab and EKG Clues to Differentiate ACS and MI

Featuring Nationally-Recognized Expert
Sean G. Smith, RN, BSN, NREMT-P, C-NPT, CCRN, CMC, CLNC, NLCP

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Laboratory Tests Made Easy: A Plain English Approach, Second Edition
By Mark Rotteremberg, MD & Sean G. Smith, RN, BSN, NREMT-P, C-NPT, CCRN, CMSRN, CLNC, NLCP, CFN, FP-C, CPEN

Your presenter: Sean G. Smith, RN, BSN, NREMT-P, C-NPT, CCRN, CMC, CLNC, NLCP, CFN, FP-C, CPEN

This best-selling reference book provides both the “need to know” information, as well as the “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 ways to read diagrams and tables.
(2013)
OBJECTIVES

1. Evaluate the results of Coagulation Studies (PT/INT and PTT).
2. Analyze a Complete Blood Count with Differential and discuss clinical applications (Anemias, Leukemias, Shifts, Infections, etc.).
3. Recognize the clinical implications of metabolic panels.
4. Distinguish between life-threatening electrolyte imbalances, as well as potential causes and remedies.
5. Predict renal function based on BUN, Creatinine, BUN/CR ratio, and GFR.
6. Interpret cardiac panel results in a suspected acute myocardial infarction.
7. Analyze blood gases and pertinent clinical implications.
8. Differentiate between bacterial meningitis and viral meningitis based on lumbar puncture findings.
9. Recognize the key clinical indications and implications for on a urinalysis.

PUBLICATION 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 credits may be available), a certificate to attend another seminar, or receive a tuition refund less a $50 cancel fee. Substitutions are permitted at any time.

SPEAKER

Sean G. Smith, RN, BSN, NREMPT-R, C-NPT, CCRN, CMC, CEN, CFRN, FP-C, CPEN, has experience in both emergency care and critical care. He has written neonatal/pediatric pharmacology CE exams for the American Association of Critical Care Nurses, as well as writing for Mosby baby critical updates. He has practiced and taught critical/care and pre-hospital emergency medical services for over 12 years. Career highlights include research in molecular endocrinology, serving in the US Navy, a variety of ICUs, flight nursing, and medical missions, as well as offering medical support to NASA. Sean lectures at the national level and has extensive text review/exam writing/contributing author credits. He holds multiple advanced specialty certifications in critical care, emergency, and flight nursing, as well as as a cardiac nurse, and neonatal/pediatric critical care transport. Sean is a dedicated and respected educator serving as an official Instructor for advanced specialty certifications in critical care, emergency, and flight nursing, as well as serving as a cardiac nurse, and neonatal/pediatric critical care transport. Sean is an experienced and respected educator serving as an official Instructor for advanced specialty certifications in critical care, emergency, and flight nursing, as well as tutoring critical thinking to proactively plan the course of care and optimize patient outcomes.

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The nation's top speakers and authors contact PESI HealthCare 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.

Chairman

Obligations

1. Nonfinancial: Sean G. Smith has no relevant nonfinancial relationships to disclose.

2. Speaker Disclosures:

Sean G. Smith, RN, BSN, NREMPT-R, C-NPT, CCRN, CMC, CEN, CFRN, FP-C, CPEN, has experience in both emergency care and critical care. He has written neonatal/pediatric pharmacology CE exams for the American Association of Critical Care Nurses, as well as writing for Mosby baby critical updates. He has practiced and taught critical/care and pre-hospital emergency medical services for over 12 years. Career highlights include research in molecular endocrinology, serving in the US Navy, a variety of ICUs, flight nursing, and medical missions, as well as offering medical support to NASA. Sean lectures at the national level and has extensive text review/exam writing/contributing author credits. He holds multiple advanced specialty certifications in critical care, emergency, and flight nursing, as well as as a cardiac nurse, and neonatal/pediatric critical care transport. Sean is a dedicated and respected educator serving as an official Instructor for advanced specialty certifications in critical care, emergency, and flight nursing, as well as serving as a cardiac nurse, and neonatal/pediatric critical care transport. Sean is an experienced and respected educator serving as an official Instructor for advanced specialty certifications in critical care, emergency, and flight nursing, as well as tutoring critical thinking to proactively plan the course of care and optimize patient outcomes.

Attend this interactive seminar and leave with true integrative understanding of lab results and patient outcomes. Be a CLINICIAN, not a TECHNICIAN . . . be PROactive, not REactive! Learn the hidden clinical clues of labs and empower your patients to make informed decisions about their health. By understanding the clues that these values give you, you can utilize critical thinking to proactively plan the course of care and optimize patient outcomes.

Seating is limited, so don’t miss your chance to improve patient care and leave with practical, implementable strategies from an expert in the field. This seminar will provide you with up-to-date information on the latest advances in laboratory interpretation and practical tips for applying that knowledge to patient care.

The Implications

1. Recognize the clinical implications of metabolic panels.
2. Distinguish between life-threatening electrolyte imbalances, as well as potential causes and remedies.
3. Predict renal function based on BUN, Creatinine, BUN/CR ratio, and GFR.
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