

## OUTLINE

### Understanding Electrical & Mechanical Functions

- Conduction System
- Waveforms
- The NEED TO KNOW Arrhythmias
- Hemodynamic Function
  - Cardiac Output
  - Preload
  - Afterload
  - Contractility
  - Heart Rate
- Normal Heart Sounds
  - S1, S2
- Abnormal Heart Sounds
  - Murmurs: Differentiating Systolic from Diastolic
  - S3/S4 Gallops
- Compensatory Mechanisms
  - Maintaining Cardiac Output & Blood Pressure

### Coronary Artery Perfusion

- In Relation to: Cardiac Musculature & Conduction System
- Lead Placement
- 5-Lead Monitoring
- 12-Lead, 15-Lead and Right-sided ECG

### Caring for Patients with Acute Coronary Syndrome

- Differentiating Between Ischemia, Injury & Infarct
- A Systematic Approach for Detection on the ECG
- Pharmacological Therapies
- AHA Guidelines: When to Use & Why
  - Dual Anti-Platelet Therapy
  - Beta Blockers
  - ACE Inhibitors
  - Anticoagulation
  - Statins
  - Mechanism of Action

### Heart Failure: Which Organs are Really Affected?

- Neurohormonal Activation
  - Sympathetic Nervous System
  - Renin-Angiotensin System
  - Aldosterone System
- Perfusion & Congestion Assessment
- Differentiating Chronic from Acute HF
- The Importance of Unloading the Heart
- Non-Invasive Diagnostic Evaluation
- Evidence-Based Treatment
- What are the BUN & Creatinine Saying?

### Valvular Heart Disease: Why the Left Side

- Contrasting Stenotic Valvular Dysfunction from Insufficiency
- Physical Assessment Clues
- Signs & Symptoms
- Associated Murmurs

### Other Cardiac Disease Pathologies

- Pericarditis
  - A Good Imposter of Myocardial Infarction
- Cardiomyopathies
  - Contrasting Dilated from Hypertrophic

### Advanced Skills in Assessment & Decision-Making

- Creating a Hemodynamic Profile without a PAC
- Assessing Volume Status
- Jugular Vein Distention
- Importance of Pulse Pressure
- The Value of Heart Sounds



## OBJECTIVES

1. Describe the basic electrophysiology of the heart: Electrical versus mechanical function.
2. Utilize the "Thumbs Technique" to determine the ventricular axis of the heart.
3. Review the more common cardiac arrhythmias and discuss the causes.
4. Define hemodynamic principles in the body.
5. Relate coronary artery perfusion to cardiac musculature and the conduction system.
6. Interpret ischemia, injury, and infarction patterns on a 12-lead ECG, 15-lead, and right-sided ECG.
7. Integrate new evidenced-based guidelines to treat Acute Coronary Syndrome.
8. Explain the process of valvular dysfunction and state treatments for aortic and mitral valve disease.
9. Describe heart failure and relate physical assessment findings to hemodynamic parameters in a patient with decompensated heart failure.
10. State the evidenced-based treatments to include medications and invasive procedures for chronic and acute heart failure.
11. Differentiate dilated from hypertrophic cardiomyopathy.
12. Discuss pericarditis to include causes, ECG changes and treatment modalities.

**FREE CE**  
ONLINE COURSE

**Mastering the Neurological Assessment**

1 CE HOUR

**HURRY** OFFER EXPIRES February 15, 2018

[healthcare.pesi.com/assessment](http://healthcare.pesi.com/assessment)



Training brought right to you  
[www.pesihealthcare.com/inhouse](http://www.pesihealthcare.com/inhouse)

# THE HEART IN DETAIL

## ASHEVILLE, NC

Tuesday, March 6, 2018

## CHARLOTTE, NC

Wednesday, March 7, 2018

## RALEIGH, NC

Thursday, March 8, 2018

NON-PROFIT ORGANIZATION  
US POSTAGE PAID  
EAU CLAIRE, WI  
PERMIT NO 32729

PESI HealthCare  
PO Box 900  
Eau Claire, WI 54702-0900  
A division of PESI, Inc.



# THE HEART IN DETAIL



## The NEED TO KNOW Arrhythmias

## Cardiac Conditions: What is Actually Happening?

## The ABCs of Cardiac Medications

## Heart Failure: Which Organs are Really Affected?

**ASHEVILLE, NC**  
Tuesday, March 6, 2018

**CHARLOTTE, NC**  
Wednesday, March 7, 2018

**RALEIGH, NC**  
Thursday, March 8, 2018



A NON-PROFIT ORGANIZATION CONNECTING KNOWLEDGE WITH NEED SINCE 1979

Register now! [pesihc.com/express/60186](http://pesihc.com/express/60186)

Register now! [pesihc.com/express/60186](http://pesihc.com/express/60186)

# THE HEART IN DETAIL



Did you ever wonder why your patient with a myocardial infarction will have dyspnea?

Or have a hard time explaining how beta-blockers work?

Or become confused about ejection fractions, let alone hemodynamics?

If you have a hard time explaining to your patients about which blood vessel perfuses what part of the heart, or why they have an arrhythmia, or how their heart failure is causing their kidney problems, then you need to join Cynthia L. Webner, DNP, RN, ACNPC-AG, CCNS, CCRN-CMC, CHF, a mentor who can really make the information easy and understandable.

Designed with the bedside clinician in mind, this seminar is appropriate for all healthcare professionals wanting to improve their assessment skills, build a firm foundation of cardiac anatomy and physiology and apply these skills in daily patient care. Understanding these essential concepts will help you find patient complications faster and respond to them more appropriately. Cynthia's teaching style allows for an informal interactive discussion. You will leave with a systematic approach to interpreting ECGs, an understanding of common cardiac pathologies, and a renewed commitment to achieving excellence in patient care.

## SPEAKER

**Cynthia L. Webner, DNP, RN, ACNPC-AG, CCNS, CCRN-CMC, CHF,** is an Acute Care Clinical Nurse Specialist with over 35 years of critical care and cardiovascular experience from the bedside to hospital administration. She currently practices in the acute care setting managing hospitalized medical cardiology patients with a group of 17 cardiologists. Her practice extends to the cardiology office where Cindy manages patients in the Advance Heart Failure Clinic. In addition to maintaining a part-time clinical practice, Cindy is a partner in two education and consulting businesses: Key Choice and Cardiovascular Nursing Education Associates. Cindy is a past recipient of the Circle of Excellence award from the American Association of Critical Care Nurses. She also maintains multiple certifications and speaks nationally on cardiovascular, critical care and leadership topics. Cindy is passionate about clinical practice and works hard to be the best she can be every day because the patients are counting on it.

### Speakers Disclosures:

Financial: Cynthia Webner is a business partner for Key Choice and Cardiovascular Nursing Education. She has an employment relationship with Aultman Hospital CVC. Dr. Webner receives a speaking honorarium from PESI, Inc.

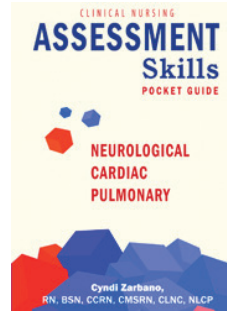
Non-financial: Cynthia Webner is a CCRN Ambassador for the American Association of Critical Care Nurses.

**Target Audience:** Nurses, Nurse Practitioners, Clinical Nurse Specialists, Physician Assistants, Cardiovascular Technicians

### Have a seminar idea? A manuscript to publish?

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 Valerie Whitehead at [vwhitehead@pesi.com](mailto:vwhitehead@pesi.com) or call (715) 855-8166.

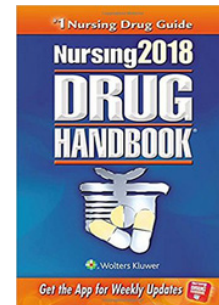
Save by including these PRODUCTS with seminar registration!



### Clinical Nursing Assessment Skills Pocket Guide

By Cyndi Zarbano, RN, BSN, CCRN, CMSRN, CLNC, NLCP

This full-color pocket guide provides portable, quick and easy access to essential reference information on neurological, cardiac and pulmonary assessments. Filled with descriptive images.



### Nursing 2018 Drug Handbook

Published by Lippincott Williams & Wilkins

Everything you need to know about today's medications in one spot! Fully updated with more than 4,300 clinical changes to nearly 3,500 generic, brand, and combination drugs. Easy-to-spot safety and clinical alerts: Black Box Warnings, Adjust-a-dose, Dialyzable drug, Overdose Signs Symptoms, Look alike-Sound alike Drugs, and IV Incompatibilities. The 32-page Photoguide features over 450 of the most commonly prescribed tablets and capsules.

Visit our Online Product Store: [www.pesihealthcare.com/store](http://www.pesihealthcare.com/store)

### Live Seminar Schedule

**7:30** Registration/Morning Coffee & Tea

**8:00** Program begins

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

**4:00** Program ends

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

For locations and maps, go to [www.pesihealthcare.com](http://www.pesihealthcare.com), find your event, and click on the seminar title.

**Seminar on DVD or CD Package** You can purchase a self-study package on the subject. You will receive a set of CDs or DVDs that include a digital copy of the seminar manual and post-test/evaluation. You and your colleagues can receive CE hours for a nominal fee. To determine if homestudy credits are available for your profession go to [www.pesihealthcare.com](http://www.pesihealthcare.com) or call 800-844-8260. Check with your licensing board to verify acceptance of self-study credits for license renewal. Order today by using the order form on this brochure or by calling 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.

Questions? Call customer service at **800-844-8260**

### LIVE SEMINAR CONTINUING EDUCATION CREDIT INFORMATION

**Credits listed below are for full attendance at the live event only.** Certificates of Completion are distributed at the conclusion of the live seminar for those who register prior to the event date and attend the full day. A letter of attendance will be issued to participants who register at the event, arrive late, or leave early. For those who registered day of (walk-ins), and are in full attendance, a certificate of completion for full CE credit will be sent within 30 days following the event. For those in partial attendance (arrived late or left early), 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](mailto: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.

PESI, Inc. offers continuing education programs and products under the brand names PESI, PESI Healthcare, PESI Rehab and Psychotherapy Networker.

**NURSES/NURSE PRACTITIONER/CLINICAL NURSE SPECIALISTS:** PESI, Inc. is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

Nurses in full attendance will earn 6.3 contact hours. PARTIAL CONTACT HOURS WILL BE AWARDED FOR PARTIAL ATTENDANCE.

**NURSE PRACTITIONERS:** This program offers 60 instructional minutes of pharmacology content which is designed to qualify for 1.0 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.

**PHYSICIAN ASSISTANTS:** This program has been reviewed and is approved for a maximum of 6.25 hours of clinical Category I CME credit by the American Academy of Physician Assistant Review Panel. Physician assistants should claim only those hours actually spent participating in the CME activity. This program was planned in accordance with AAPA's CME Standards for Live Programs and for Commercial Support of Live Programs.

**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.

PLEASE RETURN ENTIRE REGISTRATION FORM

## How to Register:

## THE HEART IN DETAIL

Questions? Visit [www.pesihealthcare.com/faqs](http://www.pesihealthcare.com/faqs), or call 800-844-8260

### ONLINE

[pesihc.com/express/60186](http://pesihc.com/express/60186)

### PHONE

**800-844-8260**

Please have credit card available

### FAX

**800-554-9775**

### MAIL

PESI HealthCare  
PO BOX 900  
Eau Claire, WI  
54702-0900

**1 Please complete entire form** (to notify you of seminar changes):  
*please print; staple duplicate forms.*

#### Mail Code:

See mail code box on address panel on reverse side

Name \_\_\_\_\_ Profession \_\_\_\_\_

Employer Name \_\_\_\_\_

Employer Address \_\_\_\_\_

Dept/Floor/Suite \_\_\_\_\_

City \_\_\_\_\_ County \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Home/Cell Ph ( ) \_\_\_\_\_

Dept. Ph ( ) \_\_\_\_\_

E-mail address \_\_\_\_\_

**For your convenience, confirmations are sent via email.**

**2 Check location:** (*make copy of locations*)

**ASHEVILLE, NC**  
**March 6, 2018**

60186ASH

Holiday Inn Biltmore East  
1450 Tunnel Road • 28805  
(828) 298-5611

**CHARLOTTE, NC**  
**March 7, 2018**

60186CHA

Embassy Suites Charlotte Ayrslley  
1917 Ayrslley Town Blvd • 28273  
(704) 970-5400

**RALEIGH, NC**  
**March 8, 2018**

60186RAL

DoubleTree Raleigh-Brownstone-University  
1707 Hillsborough St • 27605  
(919) 828-0811

### Register now!

[pesihc.com/express/60186](http://pesihc.com/express/60186)

#### ADA needs:

We would be happy to accommodate your ADA needs; please call at least two weeks prior to the seminar date.

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:

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

Groups of 10 or more: Call 800-844-8260 for discounts.

Discounted Military Rate: PESI Inc. is proud to offer a \$20 tuition discount on live seminar tuition for veterans and active duty military personnel. **Advance registration by phone required.**

Discounted Student Rate: As part of its mission to serve educational needs, PESI, Inc. offers a reduced rate of 50% off standard tuition for students. Enclose a current student schedule with registration form. Go to [www.pesihealthcare.com/faqs](http://www.pesihealthcare.com/faqs) or call 800-844-8260 for details. **Advance registration required.**

*Cannot be combined with other discounts.*

FOR OFFICE USE ONLY

VW

Fed ID # 26-3896894 © 2017 PESI, Inc.

**3 Check tuition:**

#### Tuition with seminar manual

**\$199.99** – choose one of the options below:

- per person for 2 or more preregistering together —OR—
- single registration postmarked 3 weeks prior to seminar date

**\$189.99** per person for 5 or more preregistering together

**\$219.99** standard

#### ADD-ON PRODUCTS

Distributed at seminar—FREE SHIPPING!

**\$22.99\*** Clinical Nursing Assessment Skills Pocket Guide

**\$44.99\*** Nursing 2018 Drug Handbook

\*Attendees add applicable state and local taxes except in AK, DE, MT, NH, OR

**4 Indicate method of payment:**

**ALL REGISTRATIONS MUST BE PREPAID.**  
Purchase orders welcome (attach copy).

Check enclosed payable to **PESI, Inc.**

MC  VISA  AE  Discover Novus  
16 digits 13-16 digits 15 digits 16 digits

Card # \_\_\_\_\_

Card Exp. \_\_\_\_\_ V-Code #: \_\_\_\_\_

Signature \_\_\_\_\_

(\*MC/VISA/Discover: last 3-digit # on signature panel on back of card.)

(\*American Express: 4-digit # above account # on face of card.)

#### CAN'T ATTEND THE SEMINAR?

See below for individual product orders

#### The Heart in Detail

\_\_\_ Seminar on DVD\* (video) \$199.99 (RNV077055)

\_\_\_ Seminar on CD\* (audio) \$169.99 (RNA077055)

\_\_\_ Clinical Nursing Assessment Skills Pocket Guide\* \$22.99 (PUB074500)

\_\_\_ Nursing 2018 Drug Handbook\* \$44.99 (SAM083810)

\*Shipping is \$6.95 first item + \$2.00 each add'l item.

Product total \$ \_\_\_\_\_

\*Shipping \_\_\_\_\_

Subtotal \_\_\_\_\_

\*\*Residents add applicable state and local taxes except in AK, DE, MT, NH, OR

\*\*Tax \_\_\_\_\_

TOTAL \_\_\_\_\_



**Group training made easy!**

Professional content, expert presenters, CE credit, training materials and more. [www.pesihealthcare.com/inhouse](http://www.pesihealthcare.com/inhouse)