CONTINUING EDUCATION TEST
DIAGNOSIS AND MANAGEMENT OF PATIENTS WITH HEART FAILURE and USE OF HIGH-SENSITIVITY TROPONIN T IS ASSOCIATED WITH FEWER ADVERSE EVENTS IN PATIENTS WITH CHEST PAIN

January 2018 (This form may be photocopied. It is no longer valid for CEUs after July 31, 2018.)

TEST QUESTIONS
Circles must be filled in, or test will not be graded. Shade circles like this:  Not like this: X

1. What is the most common diagnosis for hospital admissions in the United States?
   a. gallbladder attack  
   b. heart failure  
   c. hip fractures  
   d. kidney stones

2. What is the estimated mortality rate over three years for heart failure (HF) patients?
   a. 10 percent  
   b. 30 percent  
   c. 50 percent  
   d. 80 percent

3. What are the associated healthcare costs of HF attributed to?
   a. healthcare services  
   b. medication  
   c. loss of productivity  
   d. all of the above

4. HF can result from either a structural or functional impairment of the ventricular filling or ejection of blood.
   a. True  
   b. False

5. According to the article by Aguanno and Samson, what two tests are extremely helpful in the determination of HF?
   a. cardiac enzymes and natriuretic peptides  
   b. cardiac enzymes and imaging studies  
   c. natriuretic peptides and imaging studies  
   d. none of the above

6. The measurable ejection fraction of blood comes from the
   a. left ventricle.  
   b. right ventricle.  
   c. right atrium.  
   d. left atrium.

7. An ejection fraction less than ____ percent is consistent with heart failure.
   a. 90  
   b. 70  
   c. 40  
   d. 20

8. The ACCF/AHA is the only organization working to classify HF.
   a. True  
   b. False

9. Signs and symptoms of HF are difficult to diagnose, especially in
   a. obese individuals.  
   b. the elderly.  
   c. patients with lung disease.  
   d. all of the above

10. Symptoms related to congestion include dyspnea, orthopnea, and paroxysmal nocturnal dyspnea, while symptoms related to inadequate cardiac output include fatigue, weakness, and exercise intolerance.
   a. True  
   b. False

11. What peptides are produced when the left ventricle of the heart is stretched due to hemodynamic pressure?
   a. ANP and BNP  
   b. ANP and NT-proBNP  
   c. BNP and NT-proBNP  
   d. BNP and proBNP

12. What should always be assessed in order to determine the likelihood of HF in a non-acute setting?
   a. daily blood work  
   b. detailed history  
   c. daily signs and symptoms  
   d. none of the above

13. Which physicians have become the gatekeepers of patients with acute HF?
   a. specialist physicians  
   b. primary-care physicians  
   c. emergency physicians  
   d. naturopathic physicians

14. The study performed by Januzzi et al concluded that the ideal application of NT-proBNP testing should be used in conjunction with
   a. a good history.  
   b. knowledge of the differential diagnosis of NP values.  
   c. a physical exam.  
   d. all of the above

15. Conventional therapies such as ACEis and ARBs are used to treat
   a. HFpEF.  
   b. HFpEF.  
   c. HSpEF.  
   d. all of the above

16. Entresto is a combination of
   a. valsartan and sacubitril.  
   b. valsartan and ACEis.  
   c. sacubitril and ACEis.  
   d. sacubitril and ARBs.

17. The effects of Entresto show an
   a. increase in BNP and a decrease in NT-proBNP.  
   b. decrease in BNP and an increase in NT-proBNP.  
   c. increase in BNP and no effect on NT-proBNP.  
   d. decrease in BNP and no effect on NT-proBNP.

18. What cardiac marker did the study conducted by Nejatian, Omstedt, and Svensson assess?
   a. troponin-I  
   b. high-sensitive troponin T  
   c. lipoprotein a  
   d. high-sensitive CKMB

19. The outcome of the study concluded that cardiac evaluations on patients were improved upon in the Emergency Department with the use of hsTnT testing.
   a. True  
   b. False

Tests can be taken online or by mail. Easy registration and payment options are available through NIU by following the links found at www.mlo-online.com/ce.

PLEASE PRINT CLEARLY

NAME  
MAILING ADDRESS

INSTITUTION/FACULTY

PHONE  
E-MAIL ADDRESS

Send your $20 check payable to Northern Illinois University with this form to: University Outreach Services, Northern Illinois University, DeKalb, IL 60115-2860 Phone: 815-753-0031 

CE Licensure Information for FL and CA:

CA: Accrediting Agency: 0001 
CA: Required for CE credit

FL: Your FL license number:____________________
FL: Required for CE credit

This test was prepared by Amanda Voelker, MPH, MT(ASCP), MLS, Clinical Education Coordinator, School of Health Studies, Northern Illinois University, DeKalb, IL.