

TEST QUESTIONS

Circles must be filled in, or test will not be graded. Shade circles like this: ☒ Not like this: ☐

- The continued rise of cardiovascular disease (CVD) each year represents about _____ percent of all global deaths.
 - ☐ a. five
 - ☐ b. 13
 - ☐ c. 24
 - ☐ d. 31
- What percentage of CVD patients does conventional risk assessment biomarkers detect disease in?
 - ☐ a. five
 - ☐ b. 10
 - ☐ c. 15
 - ☐ d. 20
- The clinical utility of the sPLA₂-IIA test has been proven to be a biomarker for
 - ☐ a. infection.
 - ☐ b. inflammation.
 - ☐ c. toxin exposure.
 - ☐ d. all of the above
- Inflammation has been found to be a direct cause of CVD.
 - ☐ a. True
 - ☐ b. False
- As little as how many risk factors are taken into consideration when determining early risk assessment in individuals?
 - ☐ a. one
 - ☐ b. three
 - ☐ c. five
 - ☐ d. seven
- The sPLA₂-IIA test has been specifically useful in determining the
 - ☐ a. prognosis of current CVD disease.
 - ☐ b. cause of CVD.
 - ☐ c. diagnosis of CVD disease risk.
 - ☐ d. all of the above
- Which family of phospholipase does sPLA₂-IIA belong to?
 - ☐ a. A₂
 - ☐ b. A₁
 - ☐ c. B
 - ☐ d. C
- As well as being an inflammatory marker, sPLA₂-IIA also functions as a
 - ☐ a. herbicide.
 - ☐ b. fungicide.
 - ☐ c. bactericide.
 - ☐ d. all of the above
- The final product(s) produced by the binding of sPLA₂-IIA to phospholipids is/are
 - ☐ a. platelet activating factors (PAFs).
 - ☐ b. leukotrienes and other eicosanoids.
 - ☐ c. prostaglandins.
 - ☐ d. all of the above
- Traditional cardiac markers are used to predict adverse outcomes, whereas the sPLA₂-IIA measurement can be used to predict the inflammatory processes that can potentially lead to a cardiac event.
 - ☐ a. True
 - ☐ b. False
- sPLA₂-IIA modification of lipoproteins has been found to play a direct role in the development of
 - ☐ a. atherosclerosis.
 - ☐ b. arteriosclerosis.
 - ☐ c. pulmonary embolisms.
 - ☐ d. petechiae.
- sPLA₂-IIA acts on the LDL cholesterol membrane to produce small-dense LDL cholesterol particles through a _____ reaction.
 - ☐ a. oxidation
 - ☐ b. hydrolysis
 - ☐ c. enzymatic
 - ☐ d. reduction
- Compared to its less dense form, small particles of which type of lipid has been demonstrated in increasing the risk of coronary heart disease?
 - ☐ a. Lipo-a
 - ☐ b. HDL
 - ☐ c. LDL
 - ☐ d. triglycerides
- Lp-PLA₂ and sPLA₂-IIA both have association with LDL, however sPLA₂-IIA mainly
 - ☐ a. hydrolyses LDL to produce atherogenesis.
 - ☐ b. acts to promote antiatherogenic functions.
 - ☐ c. is carried by LDL to the coronary artery wall and activates inflammation.
 - ☐ d. all of the above
- Research has proven that Lp-PLA₂ has a high association with CVD diagnosis, cardiac death, and MI.
 - ☐ a. True
 - ☐ b. False
- Studies have shown that sPLA₂-IIA has a prognostic value and when percutaneous coronary intervention is used, the sPLA₂-IIA level responds by
 - ☐ a. decreasing immediately.
 - ☐ b. increasing immediately.
 - ☐ c. decreasing about four hours after the procedure.
 - ☐ d. increasing about four hours after the procedure.
- What other disease has sPLA₂-IIA been researched on that shows promising results?
 - ☐ a. sepsis
 - ☐ b. diabetes
 - ☐ c. transient ischemic attack
 - ☐ d. pneumonia
- sPLA₂-IIA has been shown to be a more accurate biomarker than _____ in sepsis patients.
 - ☐ a. CRP
 - ☐ b. WBC count
 - ☐ c. PCT
 - ☐ d. all of the above

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 _____

☐ HOME ☐ WORK

CITY _____ STATE _____ ZIP _____

INSTITUTION/FACILITY _____

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
 FEE NOT REFUNDABLE OR TRANSFERABLE

P = Poor; E = Excellent

1. To what extent did the article focus on or clarify the objectives?

P ① ② ③ ④ ⑤ E

2. To what extent was the article well-organized and readable?

P ① ② ③ ④ ⑤ E

3. How will you use the CE units?

☐ state license ☐ employment
☐ recertification ☐ other

CE Licensure Information for FL and CA:

FL: Your FL license number: _____
(required for CE credit)CA: Accrediting Agency: 0001
(for use in submitting your CE credits to CA)

MLO and Northern Illinois University (NIU), DeKalb, IL, are co-sponsors in offering continuing education units (CEUs) for this issue's CE article. CEUs or contact hours are granted by the College of Health and Human Sciences at Northern Illinois University, which has been approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.® program. Approval as a provider of continuing education programs has been granted by the state of Florida (Provider No. JP0000496). Continuing education credits awarded for successful completion of this test are acceptable for the ASCP Board of Registry Continuing Competence Recognition Program. Readers who pass the test successfully (scoring 70% or higher) will receive a certificate for 1 contact hour of P.A.C.E.® credit. Participants should allow three to five weeks for receipt of certificate. The fee for this continuing education test is \$20. This test was prepared by Amanda Voelker, MPH, MT(ASCP), MLS, Clinical Education Coordinator, School of HealthStudies, Northern Illinois University, DeKalb, IL.