

The purpose of this quiz is to provide a convenient means for osteopathic physicians to assess their understanding of the scientific content in the May 2015 issue of *The Journal of the American Osteopathic Association (JAOA)*.

To apply for 2 Category 1-B continuing medical education (CME) credits, AOA members may take this quiz online at https://www.osteopathic.org/docmeonline, where this and other *JAOA* quizzes can be accessed. Quizzes that are completed online will be graded and credited to members' CME activity reports.

Alternatively, osteopathic physicians can complete the quiz below and mail it to the following address by November 30, 2016:

American Osteopathic Association
Division of CME
142 E Ontario St
Chicago, IL 60611-2864
Fax: (312) 202-8202
AOA No.
Full name

If you mail or fax this form to the Division of CME, the AOA will record the fact that you have submitted this form for Category 1-B CME credit. Osteopathic physicians who are not members of the AOA and who forward hard copies of completed *JAOA* quizzes to the Division of CME will be charged a fee of \$25 per quiz for staff time to grade the quiz, record the credits, and provide a letter to the osteopathic physician as documentation.

For each of the questions below, place a checkmark in the box provided next to your answer so that you can easily verify your answers against the correct answers, which will be published in the June 2015 issue of the *JAOA*.

Variations in the Diagnosis and Treatment of Somatic Dysfunction Between

4 Osteopathic Residency Programs

Gregory A. Hon, DO; Karen T. Snider, DO; and Jane C. Johnson, MA

- During outpatient clinical encounters for spinal pain, residents from which of the following residency programs documented the most non–somatic dysfunction assessments:
- (a) family practice/osteopathic manipulative treatment
- (b) integrated family practice/ neuromusculoskeletal medicine
- (c) integrated internal medicine/ neuromusculoskeletal medicine
- (d) neuromusculoskeletal medicine/ osteopathic manipulative medicine

- Which of the following osteopathic manipulative treatment techniques was most commonly used by the residents:
- (a) articulatory
- (b) balanced ligamentous tension
- (c) counterstrain
- ☐ (d) high-velocity, low-amplitude
- (e) muscle energy

Lymphatic Pump Treatment as an Adjunct to Antibiotics for Pneumonia in a Rat Model

Lisa M. Hodge, PhD; Caitlin Creasy, MS; KiahRae Carter, MS; Ashley Orlowski, BS; Artur Schander, DO; and Hollis H. King, DO, PhD

- 3. How many applications of lymphatic pump treatment were shown to be effective when combined with levofloxacin to reduce pulmonary Streptococcus pneumoniae?
- ☐ (a) 1
- ☐ (b) 2
- ☐ (c) 3
- ☐ (d) 4 ☐ (e) 5
- 4. At 96 hours after infection with S pneumoniae, how many of the 8 rats treated with the combination of levofloxacin and lymphatic pump treatment were cured?
- □ (b) 2
- ☐ (c) 3 ☐ (d) 4
- ☐ (e) 5
- Lymphatic pump treatment may protect against pneumonia by which of the following mechanisms:
- ☐ (a) removing bacteria from the lung
- $\hfill \square$ (b) enhancing the effect of levofloxacin
- (d) a and b only
- \square (e) all of the above

Research Dissemination: Guiding the Novice Researcher on the Publication Path

Karen A. Collins, MPA; Grace D. Brannan, PhD; and Godwin Y. Dogbey, PhD

- 6. Do quality improvement projects need institutional review board approval?
- (a) No. Quality improvement project results are for internal purposes only.
- (b) Yes. All quality improvement projects involve human subjects.
- (c) It depends. If the results of quality improvement projects are going to be disseminated outside the institution, then institutional review board approval is required.

7. Which of the following statements	9. Which of the following pathophysiologic	Spontaneous Pneumomediastinum
about the impact factor is true:	processes has been postulated	in a Pediatric Patient After
(a) It is the sole measure of the	to be associated with pulmonary	a 1600-m Run: Case Report
quality of a journal.	lymphangitic carcinomatosis:	and Literature Review
☐ (b) It reflects the number of times	(a) involvement of vascular endothelial	CPT Zachary C. Booms, DO,
a journal's articles have been	growth factor C (VEGF-C) in	and MAJ George A. Barbee, PA-C
cited during a given period.	promoting the lymphatic spread	11. What percentage of patients with
☐ (c) It is the only consideration	of the tumor	spontaneous pneumomediastinum
when selecting a target journal.	☐ (b) downregulation of endothelial	have a concomitant pneumothorax?
	proliferation and tissue factor	☐ (a) 0%
Pulmonary Lymphangitic	by VEGF-C	☐ (b) up to 30%
Carcinomatosis From	(c) inhibition of 5-hydroxytryptamine	☐ (c) 50% or more
Metastatic Gastric	release from the granules of platelets	☐ (d) 60%
Adenocarcinoma: Case Report	(d) hematologic spread of the tumor	
Arsineh Khachekian, DO; Sean Shargh, DO;	and ultimate transfer to the	
and Sarkis Arabian, DO	lymphatic system	
8. Diagnosis of pulmonary lymphangitic		
carcinomatosis requires which	10. Pulmonary lymphangitic carcinomatosis	
of the following:	is most commonly associated with	
(a) high-resolution computed	which of the following cancers:	
tomography of the chest	☐ (a) pancreas	
☐ (b) transbronchial or	☐ (b) lung	
open-lung biopsy	☐ (c) gastric	
☐ (c) clinical suspicion	☐ (d) breast	
(d) testing for tumor markers	☐ (e) prostate	

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