



THE JOURNAL *of the* AMERICAN OSTEOPATHIC ASSOCIATION

The purpose of this quiz is to provide a convenient means for osteopathic physicians to assess their understanding of the scientific content in the March 2014 supplement to *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, as well as the evaluation form that follows this quiz, and mail it to the following address by September 30, 2015:

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 April 2014 issue of the JAOA.

Recommended Vaccines for Adolescent Patients

by Gregory H. Bennett, DO,
and Kelly Leite, DO

1. The meningococcal conjugate vaccine does **not** currently protect against which of the following meningococcal serogroups:

- ☐ (a) A
- ☐ (b) B
- ☐ (c) C
- ☐ (d) Y
- ☐ (e) W-135

2. Which of the following vaccines is **not** currently recommended for the adolescent population?

- ☐ (a) meningococcal conjugate
- ☐ (b) Tdap (tetanus, diphtheria, acellular pertussis)
- ☐ (c) influenza
- ☐ (d) rotavirus
- ☐ (e) human papillomavirus

3. Approximately how many deaths in women were attributable to cervical cancer in 2010?

- ☐ (a) 9,000
- ☐ (b) 12,000
- ☐ (c) 4,000
- ☐ (d) 1,000
- ☐ (e) 20,000

Adverse Effects of Adolescent Immunizations

by Natalia Vernon, MD,
and Pooja Jhaveri, MD

4. Which of the following statements is true regarding the human papillomavirus (HPV) vaccine:

- ☐ (a) The Advisory Committee on Immunization Practices recommends routine vaccination by means of a 3-dose series of bivalent HPV vaccine to males and females aged 11 to 12 years.
- ☐ (b) The most common reported adverse reaction with the administration of the quadrivalent HPV vaccine is headache.
- ☐ (c) Patients who experience syncope after receiving the HPV vaccine should not receive any further doses.
- ☐ (d) A history of a severe allergic reaction to eggs is a contraindication to HPV vaccination.

5. A 12-year-old boy is brought to the primary care office for his annual physical examination. He has a history of hives after egg ingestion at age 1 year. His parents would like him to receive the influenza vaccine. The primary care physician should recommend that the patient...

- ☐ (a) be referred to an allergist before receiving the influenza vaccine.
- ☐ (b) avoid influenza vaccination until he has outgrown his egg allergy.
- ☐ (c) receive the inactivated influenza vaccine in the primary care office and be observed for 30 minutes.
- ☐ (d) receive the inactivated influenza vaccine in the primary care office according to standard protocol.

Food Allergies Are Rarely a Concern When Considering Vaccines for Adolescents

by Larisa V. Buyantseva, MD, MS,
and Alexandra Horwitz, MD

6. A 12-year-old boy has a history of moderate persistent asthma, allergic rhinitis, atopic dermatitis, and food allergy to milk and egg. He had a recent accidental ingestion of some scrambled eggs and within 10 minutes developed mouth itching and hives. His mother heard that he may be able to receive the influenza vaccine despite his egg allergy. What should the primary care physician recommend?

- ☐ (a) Postpone influenza vaccination.
- ☐ (b) Proceed with influenza vaccination at the primary care physician's office.
- ☐ (c) Refer the patient to an allergist.
- ☐ (d) Administer the live attenuated influenza vaccine (nasal spray flu vaccine).

7. An 11-year-old girl with celiac disease is in the primary care office for a wellness checkup. Her mother says her daughter had some blood tests that revealed a positive IgE to yeast. As the primary care physician, you recommend the human papillomavirus (HPV) vaccine. The mother has read that this

vaccine has yeast in it and wonders if it is safe for her daughter to get. The girl has never had an allergic reaction to yeast-containing foods. The primary care physician should recommend that the patient...

- ☐ (a) be referred to an allergist for further evaluation.
- ☐ (b) not receive the HPV vaccine at all.
- ☐ (c) receive the HPV vaccine in the usual manner without special precautions.
- ☐ (d) receive the HPV vaccine and be observed for 30 minutes.

Evaluation Form

To assist us in evaluating the effectiveness of this activity and to improve future educational offerings, please take a few moments to complete this evaluation form. The JAOA appreciates your feedback.

Please rate your level of agreement by circling the appropriate rating.

1. After participating in this activity, I am now better able to:

Identify gaps among adolescents in receiving vaccination doses recommended by the Advisory Committee on Immunization Practices	1	2	3	4	5
Recognize the importance of increasing immunization rates.	1	2	3	4	5
Educate patients and parents on recommended vaccinations.	1	2	3	4	5
Identify patients who are good candidates for receiving the various vaccines discussed.	1	2	3	4	5

2. On the basis of my participation in this activity,

I gained new strategies/skills/information that I can apply to my area of practice.	1	2	3	4	5
I plan to implement new strategies/skills/information into my practice.	1	2	3	4	5

3. The content presented:

Enhanced my current knowledge base	1	2	3	4	5
Addressed my most pressing questions	1	2	3	4	5
Promoted improvements of quality in health care	1	2	3	4	5
Was scientifically rigorous and evidence based	1	2	3	4	5
Avoided commercial bias or influence	1	2	3	4	5

4. Which one of the following statements best describes the impact of this activity on your performance:

- ☐ I will implement the information in my area of practice
- ☐ I will need more information before I change my practice behavior
- ☐ This activity will not change my practice, as my current practice is consistent with the information presented.
- ☐ This activity will not change my practice, as I do not agree with the information presented.