Certified Professionals may earn .2 CEUs by completing quizzes based on selected articles in each issue of the *Assistive Technology* journal.

Each quiz is 12 questions in multiple-choice or true-false format. You must answer nine questions correctly (75%) to earn the .2 CEU credit. Results of the quiz will be emailed (or mailed by request) upon completion.

Complete the quiz by circling the correct answers. Mail or fax the completed quiz with payment to RESNA Quizzes, 1560 Wilson Blvd., Suite 850, Arlington, VA 22209. FAX: (703) 524-6630.

☐ RESNA members: $32  ☐ Nonmembers: $45

---

**NAME**  ____________  ____________

**CREDENTIAL(S)**

---

**COMPANY**

---

**ADDRESS**

---

**CITY**  ____________  **STATE**  ____________  **ZIP**  ____________

---

**EMAIL** (required or check here to receive results by mail ☐)

---

**QUIZ 30.1d PAYMENT INFO:**

☐ VISA  ☐ MC  ☐ CHECK payable to RESNA

---

**CREDIT CARD NUMBER**  ____________  **EXP DATE**  ____________  **THREE-DIGIT SECURITY CODE**

---

**NAME ON CARD**

---

**BILLING ADDRESS OF CARD IF DIFFERENT**

---

*Other quizzes from Assistive Technology Journal articles may be found on the RESNA website (www.RESNA.org). The primary program learning objective is to keep abreast of current findings and practices in assistive technology, research and rehabilitation engineering.*

Was the content of the article relevant to current AT practice? ☐ Yes  ☐ No

Was reading the article and completing the quiz a good way for you to learn? ☐ Yes  ☐ No
1. How many volunteers participated in this study?
   A. 15 – 7 males and 8 females
   B. 15 – 8 males and 7 females
   C. 12 – 6 males and 6 females
   D. 18 – 9 males and 9 females
   E. 14 – 8 males and 6 females

2. How many participants had previously used crutches due to an injury?
   A. 3
   B. 6 [correct response]
   C. 9
   D. 5
   E. 4

3. How many walking trials did participants perform with right forearm loadings with each cuff design?
   A. 3 [correct response]
   B. 4
   C. 5
   D. 6
   E. 7

4. Which of the following statements correctly describes the crutch gait trial procedures?
   A. Subjects were notified of condition and order of conditions was predetermined
   B. Subjects were blinded to the condition and order of conditions was predetermined
   C. Order of conditions was randomized and subjects were blinded to the condition
   D. Order of conditions was randomized and subjects were notified of condition

5. Significant differences between conditions were detected using which test?
   A. Bonaparte’s multiple comparison test
   B. Bonferroni’s multiple comparison test
   C. Ferro-Rocher’s multiple comparison test
   D. Borodin’s multiple comparison test

6. What was the statistical significance level for all statistical tests set a priori?
1. 0.006
2. 0.009
3. 0.060
4. 0.090
5. 0.016

7. What was the largest medial shift observed with the novel cuff?
A. 19 mm
B. 22 mm
C. 17 mm
D. 15 mm
E. 23 mm

8. What changed when walking with crutches with the novel design?
A. The size of the area where the center of pressure points were found
B. The location of the center of the pressure points
C. Both the size of the area and the location of the center of the pressure points
D. Neither the size of the area nor the location of the center of the pressure points

9. Which of the following statements represents findings from the study?
A. Participants required more time than expected for adjusting their gait to the novel cuff design
B. Participants appeared to alter their general gait pattern
C. Kinetics were measured in the study
D. Kinematics were not measured in the study
E. Both kinetics and kinematics were measured in the study

10. Which description accurately represents characteristics of this particular study?
A. Changes in handle design as well as crutch cuff were made and observed
B. A large group of healthy participants was tested
C. A small group of healthy participants was tested
D. Long-term users of crutches were also tested for comparison purposes

11. Walking with forearm crutches can trigger which condition in the biceps tendon?
A. Tendril-syncovitis
B. Tenosynovitis
C. Ulnar recessitis
D. Ulnar neuropraxitis

12. What was the overall purpose of the study?
A. To test the hypothesis that a crutch cuff design with an ulnar recess actually increases ulnar pressure during walking with forearm crutches
B. To test the hypothesis that axillary crutches are indeed superior to forearm crutches
C. To test the hypothesis that a crutch cuff design with an ulnar c-curve support reduces ulnar pressure during walking with forearm crutches
D. To test the hypothesis that a crutch cuff design with an ulnar recess actually reduces ulnar pressure during walking with forearm crutches
E. To test the hypothesis that a crutch cuff design with an ulnar recess reduces ulnar pressure during walking with axillary crutches