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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.

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*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

Name: \_\_\_\_\_ Email: \_\_\_\_\_

## Quiz 30.1C: The Effect of Cushion Properties on Skin Temperature and Humidity at the Body-Support Interface

1. What were key extrinsic factors in the development of pressure ulcers?

- a. Temperature and moisture
- b. Temperature only
- c. Moisture only
- d. Neither temperature nor moisture

ANSWER: \_\_\_\_\_

2. What can excessive moisture do, according to the article?

- a. May cause excessive wound drainage
- b. Can significantly increase skin's coefficient of friction
- c. Could excessively weaken the stratum corneum
- d. All of the above
- e. None of the above

ANSWER: \_\_\_\_\_

3. How many participants were enrolled in the study?

- a. 87 (39 male and 48 female)
- b. 64 (32 male and 32 female)
- c. 76 (38 male and 38 female)
- d. 78 (39 male and 39 female)

ANSWER: \_\_\_\_\_

4. What were all participants asked to wear in order to avoid the influence of different trouser materials in the results?

- a. Wool pants
- b. Silk shorts
- c. Cotton short pants
- d. Linen shorts
- e. Gabardine pants

ANSWER: \_\_\_\_\_

5. Why was a strict 2-hour continuous sitting protocol used in this study?

- a. Skin temperature could continue to change
- b. That amount of time was necessary for representative temperature curves to reach their plateau
- c. The difficult task of sitting continuously in the same position would weed out inadequate participants
- d. 120 minutes was determined to be the optimum amount of time to obtain the most accurate reading

ANSWER: \_\_\_\_\_

6. What was the sampling frequency set at?

- a. 10 Hz/sensor
- b. .10 Hz/sensor
- c. 1 Hz/sensor
- d. .1 Hz/sensor
- e. .01 Hz/sensor

ANSWER: \_\_\_\_\_

Name: \_\_\_\_\_ Email: \_\_\_\_\_

7. Which test was used to test the normality of the data?

- a. Gorky-Smirnov test
- b. Glasnost-Stolichnaya test
- c. Kremlo- Karamozov test
- d. Kolmogorov-Smirnov test
- e. Pravdo-Karamozov test

ANSWER: \_\_\_\_\_

8. Which cushion type produced the lowest skin temperature readings over time?

- a. Foam-fluid hybrid cushion
- b. Foam cushion
- c. Air-filled rubber cushion
- d. Gel cushion

ANSWER: \_\_\_\_\_

9. Which cushion could easily become hot over prolonged sitting, but actually remain fairly cool if the user were trained properly?

- a. Foam cushion
- b. Gel cushion
- c. Air-filled rubber cushion
- d. Foam-fluid hybrid cushion

ANSWER: \_\_\_\_\_

10. Which cushion material has a low thermal mass and thereby acts as an insulator?

- a. Rubber
- b. Foam
- c. Gel
- d. Air

ANSWER: \_\_\_\_\_

11. What is the most common cause of skin breakdown due to moisture called?

- a. Dermitation
- b. Dermitatus Irritatum
- c. Machination
- d. Maceration
- e. Dermititis

ANSWER: \_\_\_\_\_

12. Why were cushion covers not evaluated in this study?

- a. Cover size and material vary greatly, causing a tremendous confounding effect
- b. Cushion covers could have an effect on skin protection
- c. Cushion color and fabric may cause participant bias
- d. A and B only
- e. All of the above
- f. None of the above

ANSWER: \_\_\_\_\_