

Day 34

## **Effects of Ultraviolet Radiation on the Skin**

Go to the following websites to help you answer the questions below:

Skin -

<http://www.cancerindex.org/medterm/medtm5.htm>

Skin and Integumentary System -

<http://www.wisc-online.com/objects/ViewObject.aspx?ID=AP12204>

1. The integumentary system consists of:
2. The functions of the integumentary system are:
  - a.
  - b.
  - c.
3. Describe the structure of the epidermis.
4. Describe the structure of the dermis.
5. Describe the structure of the hypodermis.
6. Describe the structure of hair.
7. Where does hair growth occur?
8. Do you think that hair products such as shampoo or gel can effect hair growth?
9. Compare and contrast sweat glands and sebaceous glands.

Go to the following website to learn about the effects of ultraviolet radiation on the skin.

<http://www.sunguardman.org/uv-radiation.php>

10. What is a melanocyte?
11. How does sunlight affect melanocytes?
12. What is melanoma?
13. Explain how sunlight and ultraviolet rays cause melanoma.  
(Use at least three complete sentences to answer this question.)

14. When is ultraviolet radiation most intense?
15. Can ultraviolet radiation travel through water? Explain why or why not.
16. Name and describe the three types of skin cancer.
17. Who is at risk for skin cancer?
18. What are four genetic risk factors for skin cancer?
19. What are four behavioral risk factors for skin cancer?
20. How can skin cancer be prevented? Describe 5 ways.
21. Early diagnosis of skin cancer is very important. Certain changes have been identified that indicate that possible melanoma. The changes are described by a tool known as the ABCDE's of Melanoma. What are the ABCDE's of melanoma?
  - a.
  - b.
  - c.
  - d.
  - e.
22. What is a sunscreen and how does it protect the skin? Include an explanation of SPF in your answer.
23. Are sunscreens needed on cloudy or rainy days? Explain.
24. How does a sun tan change the skin? Are sun tans safe?