

# Integumentary system worksheet

## A Skin anatomy

A Fill in the missing words or figures:

- 1 Cutis is the Latin expression for .....
- 2 Corium is another word for .....
- 3 The skin makes up for .....% of the overall body weight
- 4 The skin is .....mm thick.
- 5 The renewal cycle of skin cells takes ..... days.

Epidermis	
Dermis	
Hypodermis	

B Write each term from the box in its category:

loose connective tissue	eccrine sweat glands
Ruffini corpuscles	stratum lucidum
free nerve endings	veins
stratum spinosum	basal layer
Merkel cells	elastic layer
sebaceous glands	Langerhans cells
Meissner's corpuscles	hair follicles
papillary layer	stratum corneum
adipose cells	arteries
lymph channels	nerves
stratum granulosum	

C Answer these questions:

- 1 The video mentions some factors the skin protects us against. Which?
- 2 In which part of the skin are keratinocytes and what is their function?
- 3 In which part of the skin are melanocytes and what is their function?

## B Skin disorders

Cold sores are a very common health problem. More \_\_\_\_ (1) 60 percent of Americans have had a cold sore. Nearly 25 percent of \_\_\_\_ (2) individuals have repeated outbreaks of cold sores. Cold sores are also \_\_\_\_ (3) as fever blisters or oral herpes. They are usually caused by herpes simplex virus 1 (HSV1).

Most people are first infected with HSV1 \_\_\_\_ (4) the age of ten. Once the virus enters the body, it remains there \_\_\_\_ (5) life. Cold sores are painful blisters filled with fluid. They usually occur on the lips. By contrast, canker sores usually occur on the tongue, inside the cheeks, or \_\_\_\_ (6) in the mouth.

Genital herpes are also painful blisters filled with fluid. They are caused by a close relative of HSV1, herpes simplex virus 2 (HSV2). A common rule of thumb is that HSV1 causes infections \_\_\_\_ (7) the waist and HSV2 causes infections below the waist. But that rule is not completely true. \_\_\_\_ (8) virus can cause infections above or below the waist.

Viruses \_\_\_\_ (9) enter the body often go through a latency period. A latency period is a stage during which the virus goes into hiding. It can be found in cells, but it is not active. There are \_\_\_\_ (10) external symptoms that the virus is in the body.

## C Skin cancer

A True or false?

- 1 Malignant melanoma develops from pigment cells.
- 2 The cancer always starts as a new or irregular ulcer.
- 3 It is deadly, because it can spread all over the skin.
- 4 These cancer cells use only the lymph nodes and vessels to move around.
- 5 Tracy isn't at risk of developing another melanoma, even if she has had one before.

B Complete the missing word.

- 1 Once the malignant melanoma has \_\_\_\_\_ or metastasised, you're likely beyond the \_\_\_\_\_ of a cure
- 2 The cells \_\_\_\_\_ into the lymphatic system where vessels \_\_\_\_\_ them to other parts of the body
- 3 Researchers at Mayo clinic continue to \_\_\_\_\_ for ways to \_\_\_\_\_ this deadly disease
- 4 Tracy is meticulous about \_\_\_\_\_, protective \_\_\_\_\_ about seeing her doctor regularly

C Answer the questions

- 1 What is the best protection against skin cancer?
- 2 As a prevention measure, you should check your moles. What should you pay attention to?

## D Giving bad news

1 Fill the gaps using these expressions. The expressions are *INCOMPLETE*: a matter of months rather than – book you – a lot/help you – afraid – certain about – tell me – comfortable — I'm sorry to have to – an option–life expectancy

**Oncologist:** Mr Scott, (1) ..... that the scan results aren't very good. It's likely that you've got a recurrence of cancer in your pancreas. That would explain why you've been feeling so tired, and your loss of appetite and weight.

**Mr Scott:** Will I need surgery?

**Oncologist:** Surgery (2) ..... at this stage. Although we can't operate, there is still (3) ..... . You've got tablets for pain relief and we can give you something stronger if you need it. We can also start you on a course of chemotherapy to help you with your symptoms. This won't cure you but it will (4) ..... . It's unusual to have any unpleasant side effects with this kind of chemotherapy. I'd like you to see a dietician for some advice on what to eat and to help you get your appetite back.

**Mr Scott:** What (5) .....? How long have I got?

**Oncologist:** One can (6) ..... . People with this condition vary a great deal. I would be wrong to give you a definite time scale but I'd say (7) ..... . (8) ..... all this, but my feeling is it's always best to be honest with people and then you know what's what.

If you're in agreement, I'd like to (9) ..... Ward 2 to start your chemo. You'll need to come in every week for the next month. Is everything clear to you? (10) ..... treatment we're going to give you? Are there any particular worries you have?

2 Over to you: what would you say to a patient who was afraid of having a skin tumour, about a centimetre in diameter? On examination, after biopsy and diagnostic tests, it turned out to be... (up to you to decide!)

## E Passive voice

43.2 Complete these sentences with the following verbs (in the correct form):

arrest   carry   cause   ~~do~~   make   repair   ~~send~~   spend   wake up

Sometimes you need **have** (might have, should have etc.).

- 1 The situation is serious. Something must be done before it's too late.
- 2 I should have received the letter by now. It might have been sent to the wrong address.
- 3 A decision will not ..... until the next meeting.
- 4 Do you think that more money should ..... on education?
- 5 This road is in very bad condition. It should ..... a long time ago.
- 6 The injured man couldn't walk and had to .....
- 7 I told the hotel receptionist I wanted to ..... at 6.30 the next morning.
- 8 If you hadn't pushed the policeman, you wouldn't .....
- 9 It's not certain how the fire started, but it might ..... by an electrical fault.

43.3 Rewrite these sentences. Instead of using **somebody** or **they** etc., write a passive sentence.

- 1 Somebody has cleaned the room.  
The room has been cleaned.
- 2 Somebody is using the computer right now.  
The computer .....
- 3 I didn't realise that somebody was recording our conversation.  
I didn't realise that .....
- 4 When we got to the stadium, we found that they had cancelled the game.  
When we got to the stadium, we found that .....
- 5 They are building a new ring road round the city.  
.....
- 6 They have built a new hospital near the airport.  
.....