F. Follow-up

Prepare a mini-presentation on injuries to the musculoskeletal system. Say what information the dispatcher and the ambulance crew should collect from the victim or witnesses, what they should give particular attention to.

Unit 2

THE INTEGUMENTARY SYSTEM

A. Warm-up

We may tend to take the skin for granted and perceive it only in terms of its aesthetic value. This would be a serious mistake as the skin is a complex structure performing a number of vitally important functions.

Working in pairs or threes try to answer the questions given below.

- 1. What are the functions of the integumentary system?
- 2. What structural elements does the integumentary system consist of?
- 3. What other systems does the integumentary system cooperate with, why and how?

Compare and discuss your answers to sum up the information gathered.

PART FOUR

softening * killing * sweating * releasing * located (2) * intensifies * protects * regulates * provides * excreting * preventing * conserving * pressure * regulate * react * secrete * evacuate * remove

Task 2

Mark the following statements true (T) or false (F). Justify your answer in the context of the texts above and your general knowledge.

- 1. The skin is a complex structure.
- 2. Keratin and melanin contained in the epidermis are important multifunctional molecules.
- 3. There is a relation between the skin and the level of vitamin D in the human organism.

- 4. The only function of the dermis is to join the epidermis with the hypodermis.
- 5. The hypodermis, composed of a thin layer of connective tissue forms the foundation of the remaining layers of the skin.
- 6. Blood vessels are present in all three layers of the skin.
- 7. If not for the nerve endings in the skin, our perception of the environment would be much poorer and our relations with the environment much more life-threatening.
- 8. In humans hair is but a decorative element.
- The two types of glands found in the skin are both endocrine glands.
- 10. The function of sebum secreted by sebaceous glands is to lubricate the skin.
- 11. Sweat glands are not only a sort of an air-conditioning system but also help the human organism get rid of toxins and wastes.
- 12. Though the skin performs a lot of functions, even an extensive damage to it cannot disturb the functioning of other organ systems.

Recap the contents of each passage and then the whole text.

C. More Vocabulary Work

Study the integumentary system injuries related vocabulary.

Task 3

Complete the text with the vocabulary given below.

PART ONE

vary * involve * location * exposed * caused * character * related * burns * affected

Being the outermost layer of the body the skin is the organ most to the environment and environment injuries.

Vocabulary

abrasion otarcie bruise siniak, stłuczenie contusion siniak, stłuczenie laceration rana szarpana, skaleczenie scraping otarcie diffuse rozlany, rozproszony bullet pocisk (z broni palnej) bullet wound rana postrzałowa incision rana cieta, ciecie haematoma krwiak ecchymosis siniak, wybroczyna puncture rana kłuta, nakłucie frostbite odmrożenie burn oparzenie ogniem lub chemiczne charred zweglony

tenderness tkliwość uciskowa erythema rumień hyperemia przekrwienie tingling mrowienie paleness bladość scald oparzenie gorącą wodą lub parą vesicle pęcherzyk blister pęcherzyk na skórze thrombosis zakrzepica

PART TWO

skin • irregular • discoloured • potential • diffuse • associated • subcutaneous • discoloration • mucous

An abrasion is a scraping away of a portion of or of a membrane as a result of an injury.

A laceration is a wound or tear of flesh.

PART THREE

tissues (2) • instrument • puncture • injuries • injury • compression • blood (2) • damage • threat • wound • infection • rise • cut • parts • point • structures • treated • vessels • exit

 A contused wound in which the skin remains unbroken while vessels underneath are ruptured may result in the formation of a haematoma if extravasated becomes encapsulated or ecchymosis if it is diffused. A crushing wound involves mashing or of tissues with minimal laceration. A penetrating wound is a in which not only the skin is broken but has occurred also to subcutaneous tissue and deeper lying or cavities. A puncture wound made by a sharp pointed is potentially dangerous because it may give to thrombosis and possible release of emboli and as it is usually a collapsed wound.

Infection, haemorrhage, thrombosis may all constitute a serious to the organism if not in time.

PART FOUR

part \circ parts \circ formation \circ symptoms \circ effect \circ exposure \circ area \circ development \circ degrees

Frostbite is the freezing or of freezing of skin or deeper tissues of any of the body, especially such as ears, nose, cheeks, fingers or toes, due to a prolonged to low temperature. The usual include tingling, redness followed by paleness and numbness of the affected Three of frostbite are distinguished: transitory hyperemia following numbness, of vesicles (blisters) and of gangrene.

PART FIVE

formation * full * size * thickness * local * charred * damage * excessive * underlying * electrical * superficial * systemic * outer * intensity * tenderness

A burn is a tissue injury resulting from exposure to thermal, chemical, or radioactive agents. The effects may be or both local and depending on the type, duration and of the exposure as well as on the location

and of the affected area. Burns are usually classified as:

Second degree burns, in which involves the epidermis and part of the dermis but not its full, so epidermis can regenerate, usually accompanied by the of vesicles or blisters.

Third degree burns, which affect the thickness of the skin (both epidermis and dermis) and also the tissues, tissues being frequently or coagulated.

PART SIX

developing • greater • size • covering • slower • serious • dry • depends • hot • rarely • immediately • moist • body • fatal

Task 4

Answer the following questions to the text read.

- 1. What environmental factors can adversely affect the skin?
- 2. What injuries can they cause?
- 3. Are injuries to the skin dangerous or life-threatening?

- 4. What is the difference between bruises, abrasions and lacerations?
- 5. Why shouldn't bruises be taken lightly? What danger may they signal?
- 6. What is a wound?
- 7. What types of wounds does the text refer to? How do they differ?
- 8. What is the difference between haematoma and ecchymosis?
- 9. Are all wounds equally dangerous to the human organism?
- 10. What do frostbites, burns and scalds have in common?
- 11. How to recognize frostbite? What are its symptoms?
- 12. How are frostbites divided and on what grounds?
- 13. Are burns caused by high temperature only?
- 14. How are burns divided and on what grounds?
- 15. Does the severity of a burn depend only on its depth?
- 16. What is the difference between burns and scalds?

D. Vocabulary Practice

Task 5

Report on the circumstances of the accident as given by the victim.

1. 'I wanted to pour some extra oil on the frying pan. The bottle slipped and the next moment the hot oil was all over my hands.'

The victim reports

- 2. 'I was in a hurry to turn off the cooker and the kettle simply fell pouring water all over me.'
- 3. 'I lifted the lid of the pan to see if the soup was ready and the steam simply hit me.'

Vocabulary stung ukąszony (użąc

stung ukąszony (użądlony) thickness grubość superficial powierzchowny flame płomień clammy lepki, lepiacy sie, wilgotny coppery miedziany, rdzawy singed osmolony, przypieczony residue pozostałość, resztka scorching przypalony, przypieczony purulent ropny waxy woskowo blady scratch zadrapanie peel łuszczyć się rash wysypka splutter pluć soot sadza slip poślizgnąć się, spaść

The victim poured cold water on the affected area to reduce the
·
pain. 3
3 hours outdoors without any
The victim spent about two hours outdoors without any protection against low temperature.
4
The victim was stabbed with some kind of a rod, he says.
The victim was shot about three hours ago. The bullet well through. The bleeding was not profuse at first. He did not want to
6
The victim lost control over his bike when riding fast and fell off
is on his right side.
7
The victim rinsed the wound but did not disinfect it.
0
A passer-by attempted to help the victim, moved him away from
9
ter a bee in the back of the arm.
40
The casualty presented with flame burns to both lower limbs and
was given a tetanus injection.

Task 10

Complete the sentences with the English equivalents of the Polish words given in brackets.

- 1. The patient has two, one in the, and the other in the left (rany postrzałowe; klatka piersiowa; bark)
- 2. The patient reports prolonged to low temperature after which he began to feel first and then in the feet. (wystawienie; mrowienie; brak czucia)
- 4. The patient sustained a burn. It is but covering approximately one third of the body. (poważne; powierzchowne; rozlegle)
- 6. We have a fight victim with a few and a lot of (rany cięte; siniaki)

E. Listening Practice & Dialogue Completion

Task 11

Listen and complete the dialogues between the caller (C) and the dispatcher (D).

Dialogue 1
C: There's been an accident. My neighbour'shas poured someover herself. It looks real bad.
What's the address?
C: Katie Crosby. I'm calling from
D: How old is the girl?
C: She's D: Is the burn? Which parts of the body are? C: I can't tell. The
Dialogue 2
C: There's been a in front of my restaurant and people have been
D: What's your name and address?
C: Peter Kent. And my address is, The Restaurant. I'm the owner.

C:	One has been, I presume. He's
	on the street and he's pro-
	fusely. The other has just been and seems to
	have but he's not bleeding.

- D: An ambulance is on its way to you. I understand you've the police?
- C: Yes. That's first thing I did. I can hear them coming.

Recap the information to the ambulance crew to be sent to the site of the accident.

Exercise 12



Listen and mark the statements below T (true) or F (false).

- 1. The call concerns a young woman.
- 2. The woman is a victim of a road accident.
- 3. It is a warm and sunny day.
- 4. The dispatcher tells the caller not to take any action on his own.
- 5. The caller makes a guess about what has happened to the woman.
- 6. The caller is a relative.

Task 13

Complete the dialogue with the words from the list. Then mark the sentences 1-6 below as T (true) or F (false).

changed a remained a collapse a move a when a give a see

- AC: Did you her or has she been lying here for some time?
- C: Actually I saw her walking slowly as if with difficulty and I wondered why these elderly people must go out in the middle of the day when it's so hot. Then I saw her sway and collapse.

AC: was it?

C: Some 15-20 minutes ago. I called you immediately.

AC: Did you her?

C: No, I didn't. Actually, she's too heavy for me and there's not much shade anywhere near. I tried to protect her from the sun with my own body.

AC: Did you her anything to drink?

- C: No. I didn't have anything with me.
- AC: Has her condition while you were with her?
- C: Not that I've noticed. She's flushed, sweaty, sort of unresponsive and heavily breathing.
- 1. The woman's collapse was sudden and unexpected.
- 2. The woman collapsed in the street over half an hour ago.
- 3. The caller could not move the woman to a shaded place.
- 4. The caller gave her some water to drink.
- 5. The woman's condition deteriorated while she was waiting for the ambulance.
- The woman was pale and short of breath but remained in full contact.

Task 14

You are an ambulance crew member. Advise the A&E hospital you are taking the woman to of your arrival and the victims condition.

F. Follow-up

Task 15

Prepare a mini-presentation on the emergencies related to the integumentary system. Say what information the dispatcher and the ambulance crew should collect from the victim or witnesses, what they should give particular attention to.

Task 16

Prepare a list of questions the patient or the patient's relative or the caller/witness should be asked.