

# A Pre-reading

Discuss your experience or theoretical knowledge with a partner.

- 1. What is your experience of wound management to date?
- 2. To what extent do you believe wounds should be managed from a 'holistic' perspective?

venous

# **B** Word building

ulcer

Complete the definitions using the correct word. (You may need to change the form of the word.)

chronic

arterial

scab

		collagen	·	acute		
		are very thin tubes	s that carry blood ar	ound the body.		
		is a protein found	especially in the join	nts of humans a	and animals.	
		refers to an illness	s or pain which quicl	kly becomes se	evere or dangerou	S.
Sciss	or blades	wh	en cutting.			
A brea	ak in the skin or o	n the surface of an orç	gan inside the body,	which does no	ot heal naturally, is	called
		 refers to a disease	e that continues ove	r a long period	and is difficult to	get rid c
		refers to the veins				-
		occurs when one	object rubs against	another.		
		 is a rough surfa	ce made of dried blo	ood which form	s over a cut or bro	oken ski
Α						
	it is healing.					
while	it is healing.	refers to the arteri				
while	it is healing.					
while	it is healing.					
Sca As yo	it is healing.		es.	swers these q		kly
Sca As you	it is healing.  anning  bu read the article assible.	refers to the arteri	es. of the text that an			kly
Sca As you as po a) V	it is healing.  anning  ou read the article ossible.  What occurs at the	refers to the arteri	es.  of the text that an the healing process	s?	uestions as quic	kly
Sca As you as po a) V b) F	anning  ou read the article ossible.  What occurs at the How would you def	refers to the arteri	of the text that and the healing process actors affecting the	s? healing proces	uestions as quic	kly
Sca As you as po a) V b) H c) H	anning  ou read the article ossible.  What occurs at the How would you def	refers to the arteri e, try to find the part proliferative phase of fine the three sets of f	of the text that and the healing process actors affecting the saffect the healing of	s? healing proces of their wound?	uestions as quic	
As you as poor b) H c) H	anning  ou read the article ossible.  What occurs at the How would you de How might the fact summarize the ir	refers to the arterine, try to find the part proliferative phase of fine the three sets of finate that a patient smokes aformation you need	of the text that and the healing process actors affecting the saffect the healing of the order to answer.	s? healing proces of their wound? r these question	uestions as quic	
As you as poor b) H c) H	anning  ou read the article ossible.  What occurs at the How would you def How might the fact summarize the ir	refers to the arteri e, try to find the part proliferative phase of fine the three sets of f that a patient smokes	of the text that and the healing process actors affecting the saffect the healing of the in order to answer.	s? healing proces of their wound? r these question	uestions as quic	



healing of their wound.



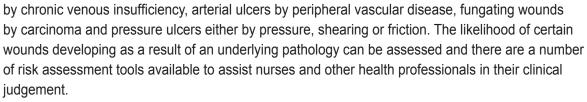
### Wound management

#### What is a wound?

A wound is a cut or hole in the skin or flesh. Wounds can be classified according to how they are caused, whether they are acute or chronic, how deep they are, the stage of healing, or the method by which they are expected to heal.

## Assessing the risk

A number of wounds, particularly chronic wounds, are associated with underlying pathology: for example, venous ulcers are often caused





Four main phases can be identified in the healing process:

- 1 Haemostasis
- 2 The inflammatory phase
- 3 The proliferative phase

4 The maturat

Haemostasis is occurs over thre factors leak out to injury and is nand fibroblasts, maturation, the information of the second of

close and a scab forms. The *inflammatory phase* usually vound appears inflamed; protein, nutrients and growth the injured area. This phase is a normal response tion. In the *proliferative phase*, capillaries, collagen w skin growth, begin to emerge. In the final phase, ens.



Wounds do not should aim to identify any existing or potential problems that will adversely affect wound healing. The numerous factors to be considered during assessment are illustrated below and include local, systemic and contextual factors. By reviewing each factor, the nurse will be able to develop an effective wound management strategy. Some of the factors are identified below.

#### **Nutrition**

Good nutrition is essential for wound healing. There is a relationship between protein-energy malnutrition and delayed healing, reduced tensile strength (resistance to tearing), infection and the development of pressure ulcers. Proteins are essential for collagen synthesis, angiogenesis and cell reconstruction.





### Cardiovascular and respiratory status

Anything that interferes in any way with oxygen delivery will tend to increase susceptibility to infection and delay healing, for example, smoking, where carbon monoxide reduces the available oxygen.

#### Age

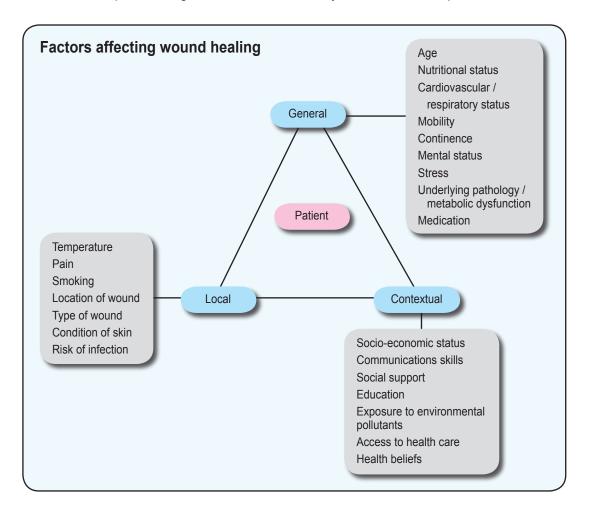
Wound healing complications are more common in the elderly, due to the body's reduced capacity to repair and slower cellular activity.

#### **Pain**

Pain can have a detrimental effect on recovery and healing. Pain needs to be assessed in terms of intensity, duration and frequency and the effect it is having on the patient's mental state.

#### **Stress**

Stress is a factor in poor healing due to reduced efficiency of the immune response.



Adapted from Foundations of Nursing Practice (3rd Edition), edited by Richard Hogston and Barbara A. Marjoram: Palgrave Macmillan (2008). Reproduced with permission from Palgrave Macmillan.





# D Vocabulary development

1. Look at the prefixes and suffixes from the text. With a partner, write a definition for each. You may wish to refer to a good English medical dictionary.

Prefix / Suffix	Meaning	Examples from text	Your example(s)
angio-		<b>angio</b> genesis	
dys-		dysfunction	
-gen		colla <b>gen</b>	
haemo- / hemo-		<b>haemo</b> stasis	
mal-		malnutrition	
-ology		path <b>ology</b>	
path-		<b>path</b> ology	
peri-		<b>peri</b> pheral	

2. Now add one or two more examples from the medical context.

## **E** Discussion

- 1. Write notes on the following: Wounds do not heal in isolation and it is important to consider the whole person by completing a holistic assessment.
- 2. Now present your ideas to the rest of the group.

# F Follow-up

Research the different dressing types that are available for the following types of wounds.

burn / diabetic ulcer / puncture / surgical incision

Find out why each of them is particularly beneficial for the wound. Include so-called 'natural' treatments (maggots, leeches), which are coming back into practice.

Keep a record of where you found the information.





### **ANSWER KEY**

### A Pre-reading

These questions are simply meant to lead into the subject – there are no specific responses.

NB: You may need to explain the term 'holistic' to your learners depending on their language background.

*treat from a holistic perspective* = treat the patient as a whole (physical, psychological and psychosocial) as opposed to the wound (in this case) in isolation. The other factors may well have a bearing.

### B Word-building

- 1. capillaries
- 2. collagen
- 3. acute
- 4. shear
- 5. ulcer
- 6. chronic
- 7. venous
- 8. friction
- 9. scab
- 10. arterial

## **C** Scanning

- a) paragraph 3
  - b) table
  - c) paragraph 4
- 2. Suggested answers:
  - a) The new skin begins to form.
  - b) 'General' are those factors related to the general mental and physical state of the patient. 'Contextual' are related to the way in which the patient lives and his/her environment. 'Local' factors are directly related to the wound itself and the skin around it.
  - c) Carbon monoxide reduces the availability of oxygen necessary to help the wound to heal.

NB: Your learners may come up with alternatives. Q.2 – Three separate sentences would be more appropriate in this case.

3. If the patient is unable to communicate the level of their pain to their nurse or GP, the healing process may take longer than is necessary.



## **ANSWER KEY**

## D Vocabulary development

Possible answers:

Prefix / Suffix	Meaning	Examples from text	Your example(s)
angio-	blood vessel	<b>angio</b> genesis	angioplasty
dys	bad, difficult	dysfunction	dysphasia, dysentery
-gen	born in, from	colla <b>gen</b>	carcinogen, allergen
haemo- / hemo-	blood	<b>haemo</b> stasis	haemoglobin, haemorrhage
mal-	bad	<b>mal</b> nutrition	malaise, malignant
-ology	study of	path <b>ology</b>	toxicology, gynaecology
path-	disease	pathology	pathogen, pathologist
peri-	'surrounding' or 'around' another	<b>peri</b> pheral	peritonitis, perinatal

#### **E** Discussion

1. Encourage your learners to express and compare their own views on factors affecting wound healing. Their specific medical culture might be such that they are unused to a holistic approach to wound management.