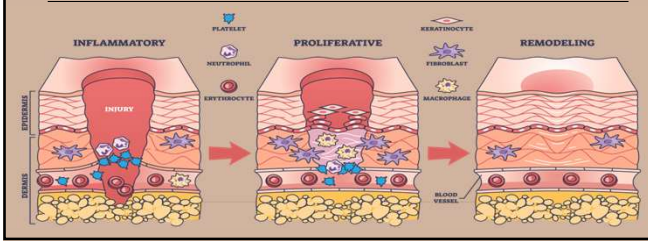


1

WOUND HEALING

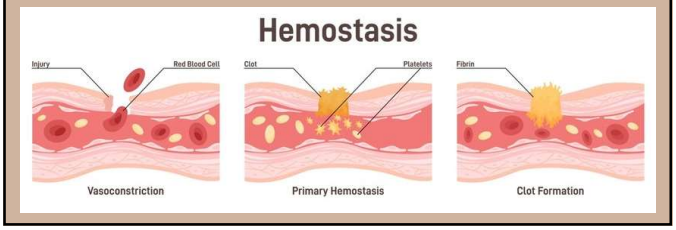
- Wound healing occurs in **three major stages: inflammatory, proliferative, and remodeling**.



2

INFLAMMATORY STAGE

- Hemostasis
  - Hemorrhage is controlled with vasoconstriction, followed within minutes by vasodilation.



3

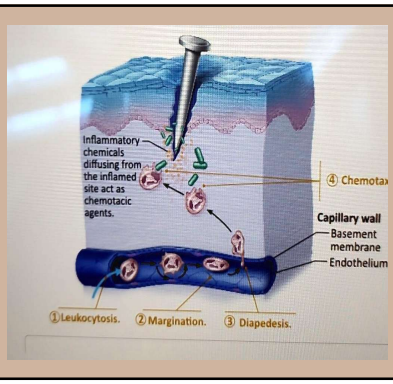
INFLAMMATORY STAGE

Chemotaxis- the movement of organisms, such as bacteria or leukocytes, toward or away from a chemical substance in their environment.

Leukocytosis- increased white blood cell concentration.

Margination- a biological process where white blood cells (leukocytes), particularly neutrophils, move from the center of the bloodstream toward the endothelial lining (wall) of blood vessels to adhere and eventually emigrate into tissue.

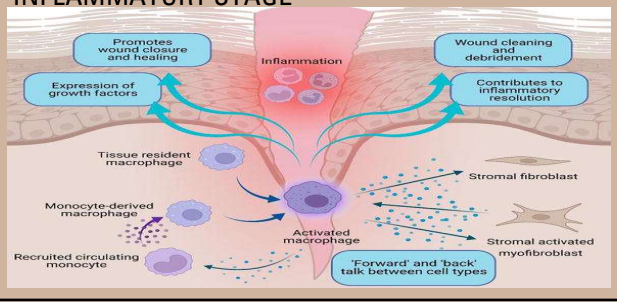
Diapedesis- the passage of blood cells through the intact walls of the capillaries, typically accompanying inflammation.



4

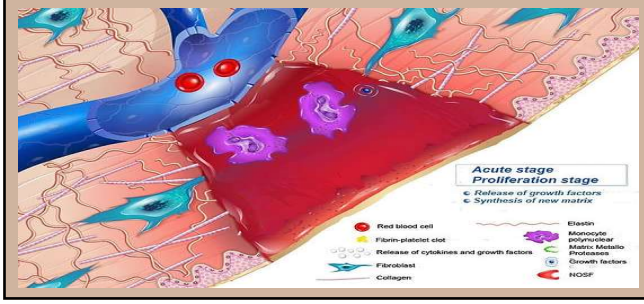
INFLAMMATORY STAGE

- Debridement Phase



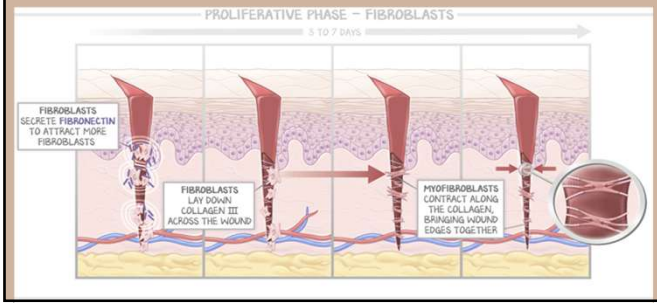
5

PROLIFERATIVE STAGE



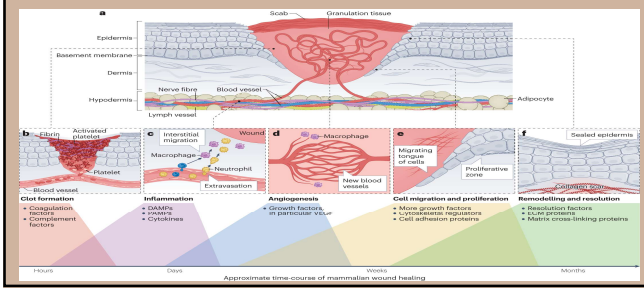
6

PROLIFERATION PHASE



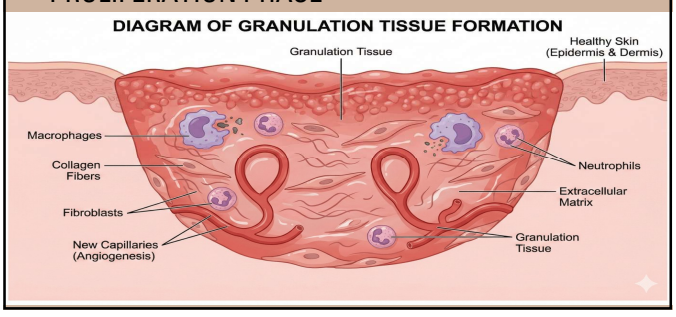
7

PROLIFERATION PHASE



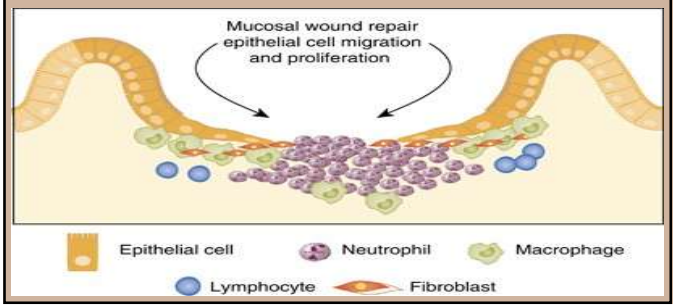
8

PROLIFERATION PHASE



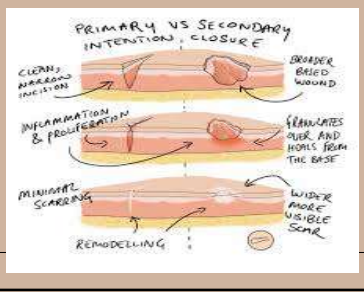
9

PROLIFERATION PHASE



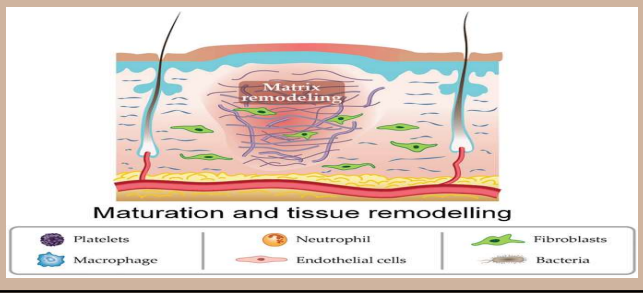
10

PROLIFERATION PHASE



11

REMODELING PHASE



12



SYSTEMIC FACTORS IMPACTING WOUND HEALING

Age

13

SYSTEMIC FACTORS IMPACTING WOUND HEALING

BODY CONDITION

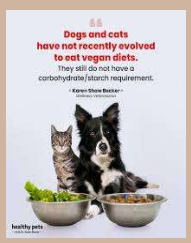




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SYSTEMIC FACTORS IMPACTING WOUND HEALING

Nutrition





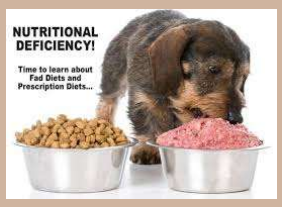






15

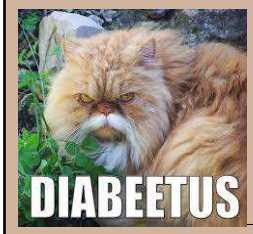
HOW MANY ASK ABOUT DIET AND FEEDING?





16

FACTORS IMPACTING WOUND HEALING







17

FACTORS IMPACTING WOUND HEALING

Medications





18



FACTORS IMPACTING WOUND HEALING

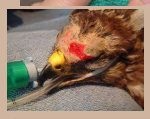
NSAID's are OK!

19

LOCAL FACTORS IMPACTING WOUND HEALING

- Tissue Perfusion and viability




20

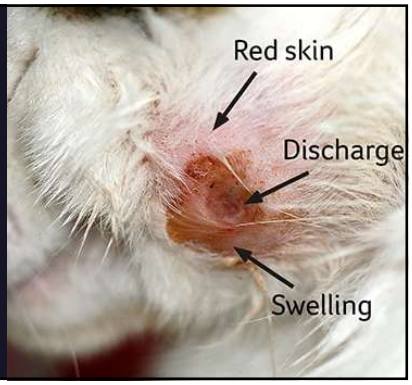
LOCAL FACTORS IMPACTING WOUND HEALING

- Hematoma
- Seroma
- Mechanical factors



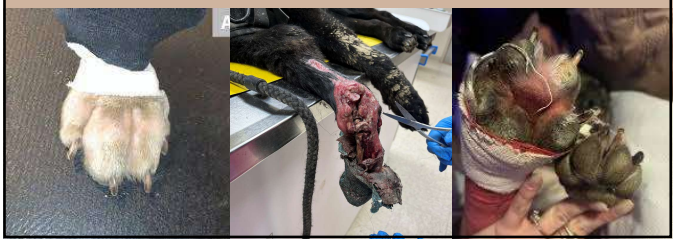
21

LOCAL FACTORS IMPACTING WOUND HEALING



22

LOCAL FACTORS IMPACTING WOUND HEALING

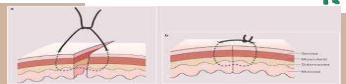


23

LOCAL FACTORS IN WOUND HEALING

- Gentle tissue handling
- Strict aseptic technique
- Sharp anatomic dissection
- Meticulous hemostasis
- Obliteration of dead space
- Avoidance of tension
- Preserved vascularity
- Careful approximation of tissues





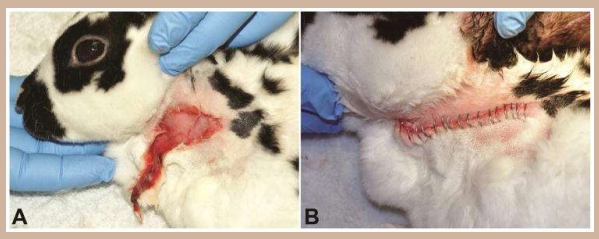
24



WOUND CLASSIFICATION

A wound may be open (e.g. a tear or puncture) or closed (e.g. a bruise).

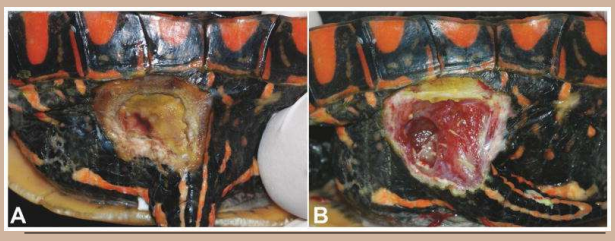
25



CLASS I WOUNDS

26

CLASS II WOUND



27

CLASS III WOUND



28

CLASS IV WOUND

- Significant treatment delay
- Foreign object lodged in wound
- Necrotic tissue, pus, fecal matter present



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QUIZ TIME

Shout out the answer

30



NAME THE WOUND CLASS

Hx: Adult Mute Swan hit by a rock at the local park 30 minutes ago

31

NAME THE WOUND CLASS

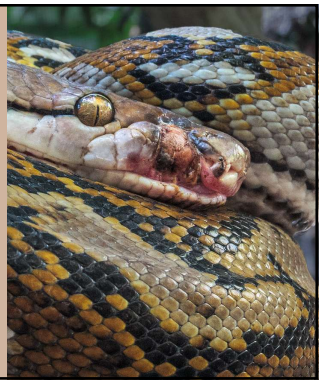
Hx: 3-year-old, female, spayed, Persian cat; cut with scissors by owner trying to remove matted fur 1 hour ago.



32

NAME THE WOUND CLASS

Hx: 4-year-old adult Python snake. Owner noticed a decreased appetite over the last 3 weeks. Owner reports rat intended for food is still alive in the snake's enclosure.



33



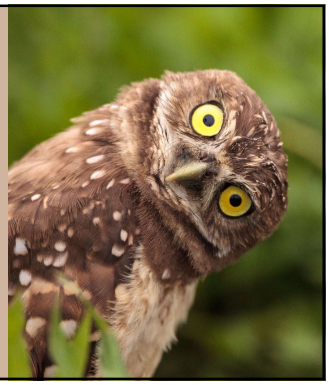
NAME THE WOUND CLASS

Hx: 2-year-old, intact male Corgi got into a fight with a St. Bernard at the dog park 1 hour ago.

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QUESTIONS?

- Contact: **FRMoon4080@yahoo.com**
- Enter "Conti 2026" into subject line



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