1. Which is WRONG regarding wound healing by primary intention?

Select one:

a. Fibrin-rich haematoma forms initially

b. Neutrophils invade the wound around day 3 Correct. Robbins 8th Edition pg 102 "within 24 hours neutrophils appear"

c. Epithelial cells migrate and grow along the cut margins of the dermis

d. Type III collagen is the first to be laid down

2. Which statement concerning collagen is INCORRECT? *(pg 104)*

Select one:

a. Fibrils form in the cytoplasm correct. Robbins 8th Edition pg 96

b. Types I-III are the interstitial collagens

c. Hydroxylation of proline residues is Vitamin C dependant

d. Cross-linking imparts tensile strength

3. Which is NOT a general delaying factor in wound healing?

Select one:

a. Vitamin C deficiency

b. High temperature Correct. Robbins 8th Edition pg 106

c. Zinc deficiency

d. Protein starvation

4. What is the main structural component for organised regeneration in a wound?

Select one:

a. Elastin

b. Fibroblasts

c. Collagen

d. Basement membrane Correct. Robbins 8th Edition pg 94

5. Removal of sutures from a wound at day 7 coincides with a wound strength of:

Select one:

a. 75% of unwounded akin strength

b. 1% of unwounded skin strength

c. 50% of unwounded skin strength

d. 10% of unwounded skin strength Correct. Robbins 8th Edition pg 106

6. In normal wound healing:

Select one:

a. New basement membrane is synthesised by fibroblasts (*epithelial cells)*

b. The tensile strength after 1 month is about 85% that of unwounded skin (*about 70-80% at 3months)*

c. Neovascularisation is maximal at day 10 in healing by primary intention (*maximal at day 5)*

d. Wound contraction is larger when wounds heal by secondary intention Correct. Robbins 8th Edition pg 103 figure 3-19

7. With regard to the development of wound strength following a laceration:

Select one:

a. At 1 week, the strength is approximately 50% of unwounded skin

b. Increased strength occurs due to stronger inter-epithelial cell junctions (*results from excess of collagen synthesis over collagen degradation during the first 2 months of healing, and later from structural modifications of collagen fibers)*

c. Collagen synthesis ceases to be an important factor after the first 4 weeks (*first 2 months)*

d. Peak wound strength may plateau at 70%–80% of unwounded skin Correct. Robbins 8th Edition pg 106 "3rd month tensile strength is 70%"

8. Which is NOT a recognised complication of skin wound healing?

Select one:

a. Proud flesh

b. Desmoids

c. Contraction

d. Lipofuscin pigmentation Correct. Robbins 8th Edition pg 106, 107

9. Zinc is important for healing because:

Select one:

a. It directly stimulates fibroblasts to synthesise collagen

b. It is a cofactor in the enzymatic modification of collagen and chains

c. It is a cofactor in the cross-linking of collagen and chains

d. It is required for activity of metalloproteinases which enable remodelling Correct. Robbins 8th Edition pg 105 "metalloproteinases have a 180-residue zinc-protease domain"

10. Which is NOT a local or systemic delaying factor in skin wound healing?

Select one:

a. Vitamin C deficiency

b. Moist wound Correct. Robbins 8th Edition pg 106

c. Poor blood supply

d. Neoplasia