LESSON 5

Fractures & Healing

True or False?



- 1. Arms are among the most commonly broken bones, accounting for almost half of all adults' broken bones.
- 2. The collarbone is the most commonly broken bone among children.

Bone Fractures

- Fracture: break in a bone
- Types of bone fractures
 - Closed (simple) fracture: bone does not penetrate the skin
 - Open (compound) fracture: bone penetrates through the skin
- Bone fractures are treated by reduction and immobilization
 - Closed reduction no surgery to realign
 - Open reduction surgical realignment

Common Types of Fractures <u>Video: Fracture Types</u>

TABLE 5.2	Common Types of	Table 5.2	
Fracture type	Illustration	Description	Comment
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Common Types of Fractures Video: Fracture Types

TABLE 5.2	Common Types of I	Fractures	Table 5.2		
Fracture type	Illustration	Description	Comment		
1. Commin	uted Bosoc	- • •	1. Many fragments; common in older brittle bones		
2. Compres	sion	2. crushed; co bones (older p	ommon in porous people)		
<u>3. Depresse</u>	d	3. Pressed inv	ward; typical on skull		
<u>4. Impacted</u>			d into each other; ng w/ outstretched arms		
<u>5. Spiral</u>	The second secon	00	eak due to twisting on sports fracture		
<u>6. Greensti</u>	ek er	—	e like a green twig; nildren w/ flexible bones		

Repair of Bone Fractures

- 1) Hematoma (blood-filled swelling) is formed
- 2) Break is splinted by fibrocartilage to form a callus
- 3) Fibrocartilage callus is replaced by a bony callus
- 4) Bony callus is remodeled to form a permanent patch

Video: Principles of Fracture Healing

Stages in the Healing of a Bone Fracture

