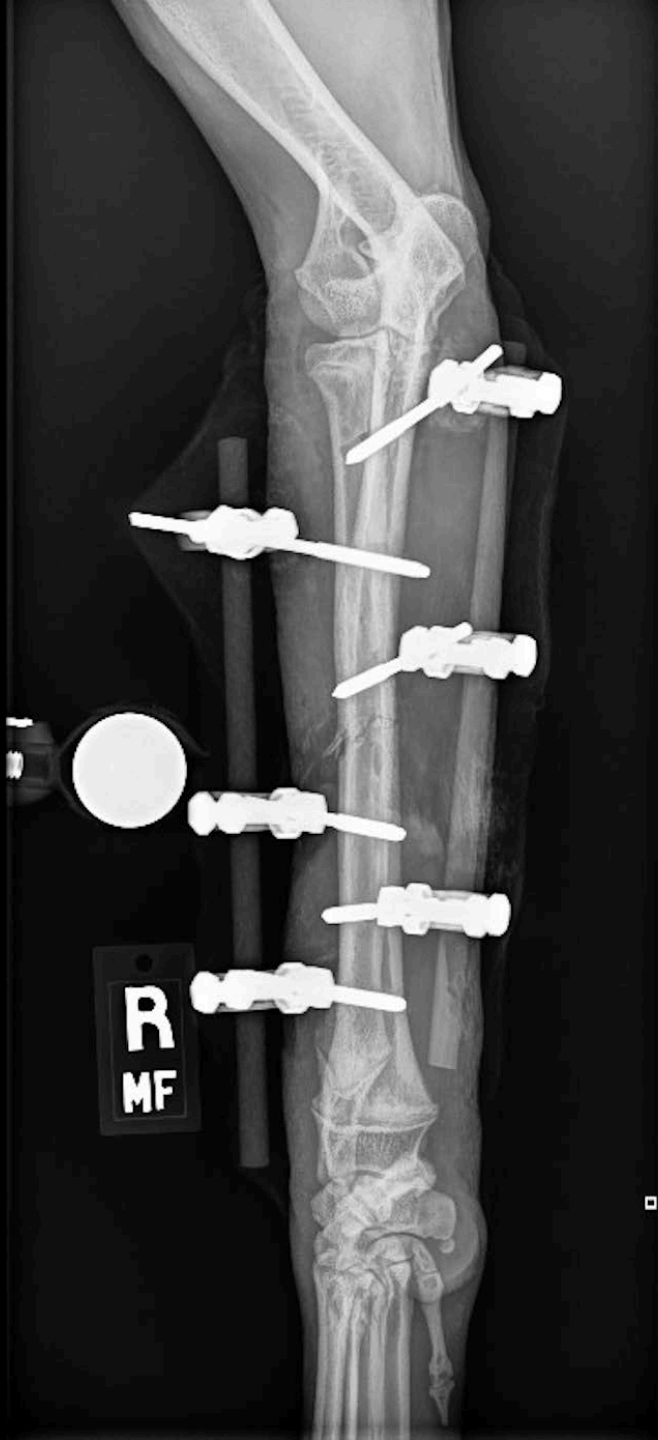


SMALL ANIMAL ORTHOPEDIC SURGERY

UNIVERSITY OF ILLINOIS
SCHOOL OF VETERINARY
MEDICINE

OPEN HOUSE 2021



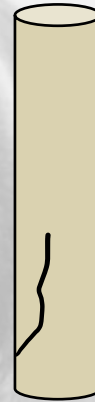
WHAT IS A FRACTURE?

A fracture is a **broken bone** and can be classified into different categories:

Complete: the bone is broken through its entire circumference, breaking the bone into 2 or more separate pieces



Incomplete: the bone is not broken through its entire circumference; this could be more like a “bend” or a “crack” in the bone



WHAT CAUSES A FRACTURE?

Pathological Fractures

This type of fracture occurs due to a weakening of the bone

Examples:

Osteosarcoma — cancer that affects the bones

Osteomyelitis — infection of the bone

Calcium Deficiency — this can be a result of a nutritional deficiency or a result of some other disease

Traumatic Fractures

This type of fracture occurs after a traumatic event

Examples:

Hit by Car

Falling/Jumping from a Height

Fight with Another Animal

Sport Injury

Photo from Shannon Chelsvieg



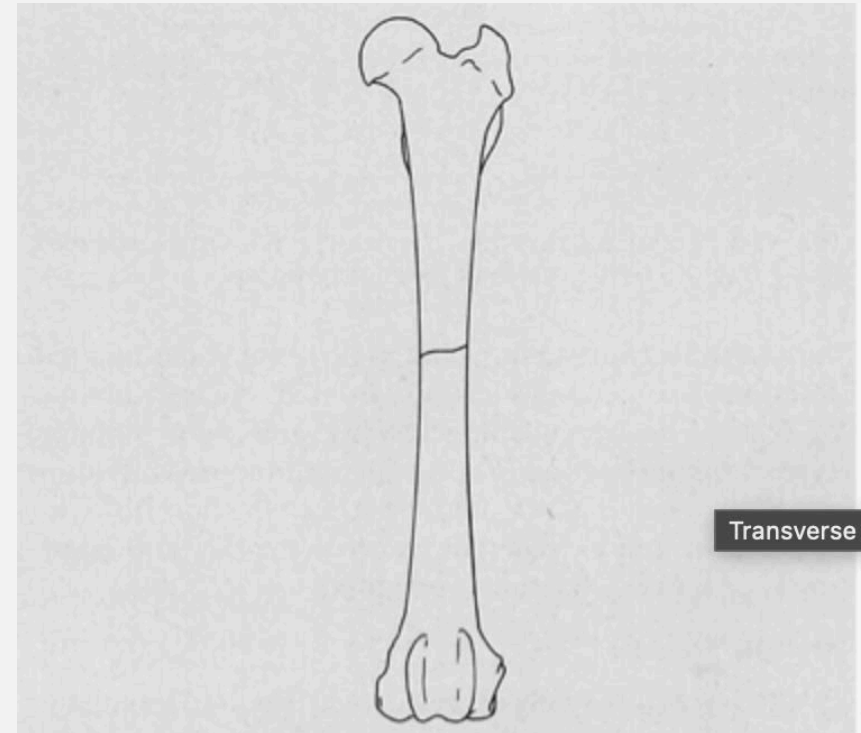
This dog needed a lower leg amputation!

TYPES OF FRACTURES

TRANSVERSE

The fracture line is perpendicular to the shaft (long part) of the bone

Cause: a large amount of force directly perpendicular to the bone



TYPES OF FRACTURES

COMMINUTED

The bone is broken into more than 2 pieces

- Cause: High velocity injuries (such as car accidents, falls from height)





Image courtesy of Kellie Gard

TYPES OF FRACTURES

OBLIQUE

- The fracture line is diagonal across the bone creating two sharp point.



Image courtesy of Kellie Gard

TYPES OF FRACTURES

SPIRAL

A spiral fracture is when there is a break in the bone from being twisted apart.

Seen most commonly on the tibia.

QUIZ TIME!

Q: WHAT TYPE OF FRACTURE IS THIS?

Oblique Fracture

Transverse Fracture

Spiral Fracture

Comminuted Fracture



Image courtesy of Kellie Gard



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