



Principles of Fracture Repair September 7-9, 2022

Day 1

- 7:30 am [Breakfast and CSUVetCE Welcome](#)
- 8:00 am Course overview and learning objectives
- 8:10 am Principles of bone healing with direct and indirect reduction
- 8:40 am Pins, principles & technique of insertion; cerclage wires: principles of application
- 9:10 am Bone plates and screws
- 9:40 am [Break](#)
- 10:00 am **Lab 1 – Instrumentation Demo & Interfragmentary Compression Techniques - Plastic Tibia:**
- Direct reduction long oblique / spiral tibial shaft fracture; Application of cerclage wire, lag screws (2 bone models / station)
- 11:15 am Radial fractures; surgical approach, direct/indirect reduction techniques
- 11:15 am [Working Lunch Discussion](#)
- 12:30 pm **Laboratory 2 - Plastic Bone Radius (Direct & Indirect Reduction)**
- Direct reduction transverse distal radius fracture with T – plate (2 models / station)
 - Indirect reduction of comminuted radial shaft fracture with Plate-Rod (2 models / station)
- 2:30 pm [Break](#)
- 2:45 pm **Laboratory 3 – Cadaver #1 Radius (Direct & Indirect Reduction) w/ approach Demo**
- Direct reduction distal transverse fracture with T – Plate (absolute stability) – LEFT radius
 - Indirect reduction comminuted radius fx with plate / rod (relative stability) – RIGHT radius
- (2 view postop rads of each RU needed for morning radiographic review session)
- 5:15 pm Discussion of Take-Home Points and Key Concepts
- 6:00 pm [End of Day](#)



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Day 2

7:30 am Breakfast

8:00 am **Radiographic Review Session** – Radius Fractures

9:00 am Femoral shaft fractures: surgical approach, direct/indirect reduction techniques

9:30 am Break

9:45 am **Laboratory 4 – Femur Plastic Bone (Direct & Indirect Reduction)**

- Direct reduction oblique femur diaphyseal fx w/ lag screw/neutralization plate (2 models/station)
- Indirect reduction of comminuted femur diaphyseal fx with Plate-Rod (2 models / station)

11:45 am Morning in Review & Discussion of Key Concepts

12:00 pm Working Lunch Discussion

12:45 pm **Laboratory 5 – Cadaver #1 Femur (Direct & Indirect Reduction) w/ approach Demo**

- Direct reduction oblique femur diaphyseal fx w/ lag screw/neutralization plate (LEFT femur)
- Indirect reduction of comminuted femur diaphyseal fx with Plate-Rod (RIGHT femur) (2 view postop rads of each femur needed for morning radiographic review session)

3:15 pm Break

3:30 pm Tibia Shaft fractures: surgical approach, direct/indirect reduction techniques

4:00 pm Proximal tibial physeal fracture: pin and tension band fixation

4:30 pm **Laboratory 6 – Stifle Plastic Bone Models (tension band fixation of tibial tuberosity avulsion) – 2 models / station**

5:30 pm Discussion of Take-Home Points and Key Concepts

6:00 pm End of Day



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Day 3

7:30 am [Breakfast](#)

8:00 am **Radiograph review session – Femur fractures**

8:45 am Bone grafting made simple: How, when and why?

9:00 am **Laboratory 7 – Cadaver #1 Tibia (Direct & Indirect Reduction) w/ approach Demo**

- Direct reduction oblique tibia diaphyseal fx w/ lag screw/neutralization plate (LEFT Tibia)
- Indirect reduction of comminuted tibial diaphyseal fx with Plate-Rod (RIGHT Tibia)

11:30 am Perioperative patient management, radiographic surveillance and complications

12:00 pm [Lunch and End of Course](#)



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