Principles of Fracture Repair

Viticus Group – Oquendo Center

Sponsored by:

Movora

Day 1

7:15a	**Shuttle Promptly Departs Hotel at 7:15a**
Upon Arrival	**Welcome and Course Objectives**
8:00a	**Lecture:** Principles of bone healing with direct and indirect reduction. Pins and Cerclage wire: principles & technique of insertion. Bone plates and screws.
10:00a	**Lab 1:** Instrumentation & Interfragmentary Compression Techniques- (Saw bone Tibia). Direct reduction of long oblique tibial shaft fracture; Application of cerclage wire, lag screws.
11:15a	**Lecture:** Radial fractures; surgical approach, direct/indirect reduction techniques.
12:00a	**Lunch**
1:00p	**Lab 2:** Saw bone and bone Radius (Direct & Indirect Reduction). Direct reduction transverse distal radius fracture with T-plate. Indirect reduction of comminuted radial shaft fracture with Plate-Rod.
2:15p	**Lab 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.
4:45p	**Lecture:** Discussion of Take-Home Points, Lab review and Key Concepts, Case Discussion
5:00p	**End of Day – Shuttle Departs for Hotel**

Day 2

7:15a	**Shuttle Promptly Departs Hotel at 7:15a**
8:00a	**Lecture:** Radiographic Review Session – Radius Fractures. Femoral shaft fractures: surgical approach, direct/indirect reduction.
9:45a	**Lab 4:** Femur Saw bone (Direct & Indirect Reduction; two Saw bone models Demo normograde and retrograde pinning). One participant executes direct reduction oblique femur diaphyseal fx w/ lag screw/neutralization plate. One participant executes Indirect reduction of comminuted femur diaphyseal fx with Plate-Rod.
12:00p	**Lunch**
1:00p	**Lab 5:** Cadaver #1 Femur (Direct & Indirect Reduction) Demo approach, retrograde and normograde pinning technique. 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).
3:15p	**Lecture:** Tibia fractures: surgical approach, direct/indirect reduction techniques. Proximal tibial physeal fracture: pin and tension band fixation.
4:00p	**Lab 6:** Stifle Saw bone (tension band fixation of tibial tuberosity avulsion).
4:45p	**Lecture:** Discussion of Take-Home Points, Lab Review, Key Concepts. Case Discussion
5:00p	**End of Day – Shuttle Departs for Hotel**

Day 3

7:15a	**Shuttle Promptly Departs Hotel at 7:15a**
8:00a	**Lecture:** Radiograph review session – Femur fractures. Bone grafting made simple: How, when, and why?
9:30a	**Lab 7:** Cadaver #1 Tibia (Direct & Indirect Reduction) Demo approach. 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).
11:00a	**Lecture:** Perioperative management, radiographic surveillance, and complications**.**
12:00p	**End of Course – Course Evaluations**
12:15p	**Shuttle Departs 1st for the Airport and then to the Hotel**