



Wheat Ridge Veterinary Specialists

• EXPERTISE YOU CAN TRUST •

Biologic Fracture Healing



A high energy, comminuted fracture of the proximal left radius and ulna (This patient was kicked by a horse).

BIOLOGIC HEALING is a fracture repair technique that allows for fracture stabilization without surgical invasion of the fracture site. Fixation wires are placed percutaneously proximal and distal to the fracture, the fractured limb is aligned visually, and the fixation wires are connected externally with circular fixation rings and rods. The small fixation wires allow for controlled axial micromotion which promotes fracture healing while maintaining excellent mediolateral and craniocaudal fracture stability. Avoidance of surgical invasion into the fracture site also promotes rapid healing by preserving the fracture hematoma and maintaining periosteal, muscle, and tendon attachments to the fracture fragments. The circular fixator system allows for adjustment of the fracture alignment at any time during the post-operative fracture consolidation and healing process.



Comfort & Function - most patients are very comfortable on the fractured limb and begin weight bearing soon after surgery. At 4 weeks postop, this patient had 75% normal weight bearing on the limb. She had started to use the leg within one week of surgery.



11 wks

Healing is usually very rapid. The circular fixator was removed at 8 weeks postop. Radiographs taken at 11 weeks postop confirm excellent fracture consolidation and healing.

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