

Figure legends:

Figure 1a: A 50 year-old female (patient 12) was referred with 5 degrees flexion contracture and flexion range to 65 degrees at 20 months following total knee arthroplasty. Preoperative radiographs show a cemented, well fixed, and well-aligned posterior stabilized total knee arthroplasty.

Figure 1b: Postoperative radiographs show Rotating-hinge revision following low-dose irradiation. Restoration of range of motion required resection of the collateral ligaments and femoral shortening. She had 0-130 degrees range of motion at 39 months follow-up and was highly satisfied with her outcome.

Figure 2a: A 54 year-old female (patient 8) was referred with 30 degrees flexion contracture and flexion range to 60 degrees at 4 months following total knee arthroplasty. Preoperative radiographs show a cemented, well-fixed, and well-aligned cruciate retaining total knee arthroplasty with heterotopic ossification involving the anterior distal femur.

Figure 2b: Postoperative radiographs show Constrained Condylar revision following low-dose irradiation. She had 0-120 degrees range of motion at 24 months follow-up and was highly satisfied with her outcome.

