Femoral Neck Nonunion

Abduction intertrochanteric osteotomy utilizing the 120 degree angled blade plate.
Femoral Neck Fracture

• 27 year old active runner with a neglected femoral neck stress fracture which went on to completion.
Femoral Neck Fracture

- Underwent appropriate treatment with plate and screw device by an outside orthopedic surgeon. Anatomic reduction was present after surgery.
Progression to Nonunion

• After 6 months continued to have pain and lack of evidence of healing.
• Referral to Dr. Mast at 6 months post op
  – Painful
  – Startup pain
  – Unable to return to work (Nursing)
Preoperative Planning

• Drawings of the before, during and after of the procedure were completed.
• The illustrations demonstrate the surgical tactic, the steps involved, and the checkpoints for completion of the procedure.
• Final anticipated result improves the biomechanics for healing while maintaining native limb length and offset.
Post op

• Xrays after surgery confirm that the procedure mirrored the preoperative planning.
• Final overlay of preoperative tracing over image demonstrates satisfactory completion of surgical objective.
6 month follow up

• Non painful.
• Clinically healed both nonunion and osteotomy site.
• Working full time.
• Returning to sports.
1 year follow up

- All metal hardware has since been removed.
- Patient is working, playing sports. Asymptomatic from the standpoint of the Left hip.
- Surgical cosmesis is acceptable.