

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.

10/13/10



Femoral Neck Fracture

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

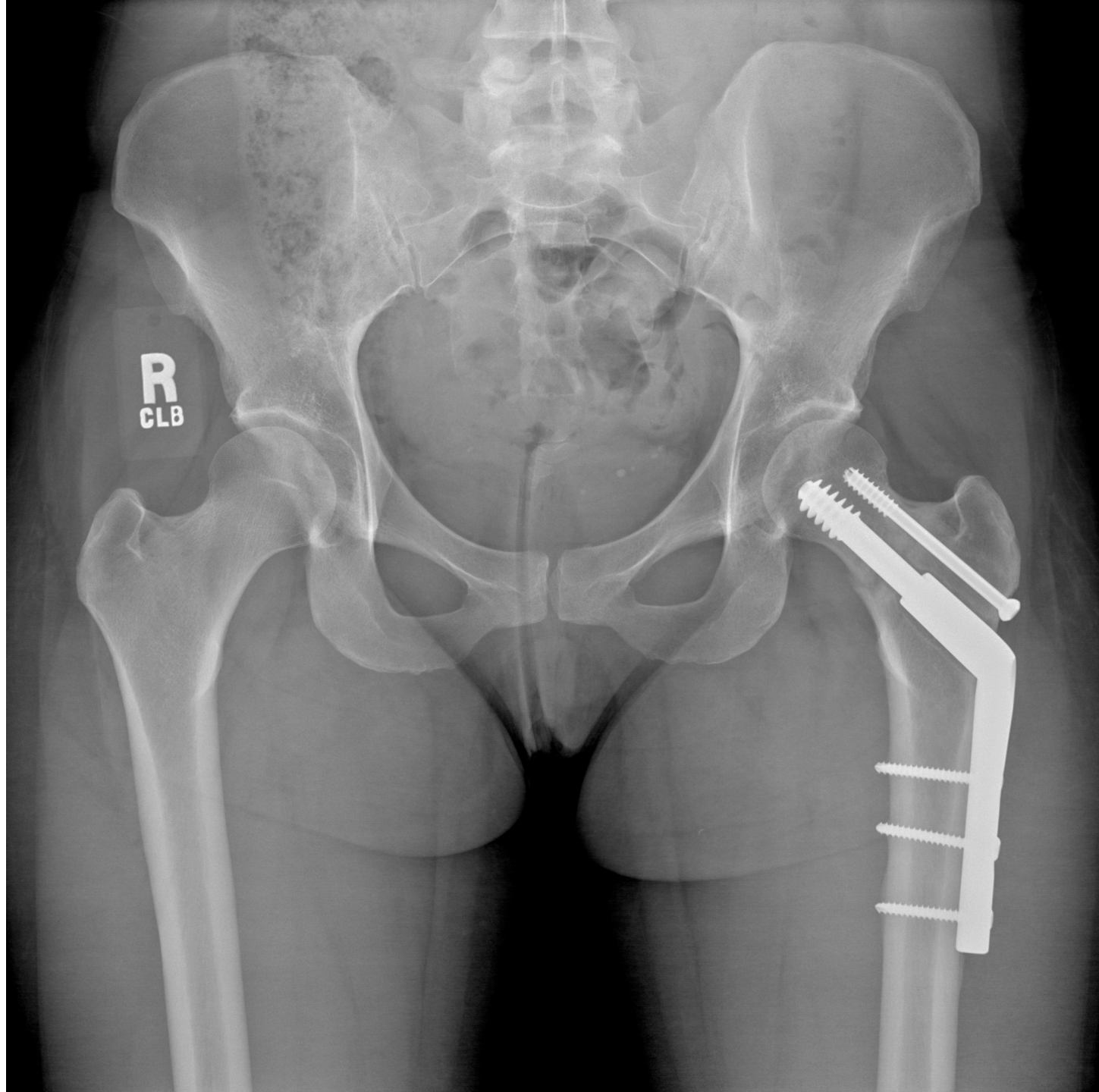


Progression to Nonunion

- 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)





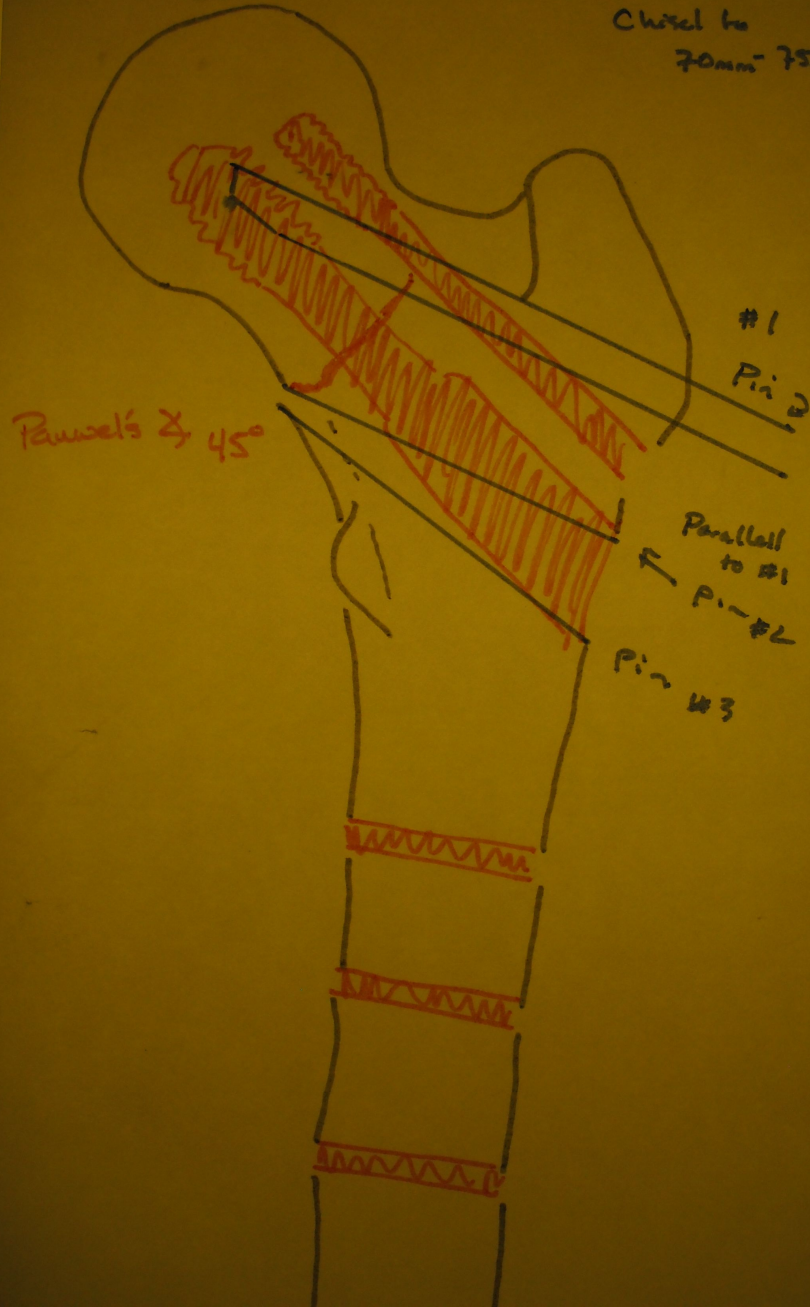
X-TABLE LAT

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.



Chisel to
70mm-75



Ratchet's $\approx 45^\circ$

#1

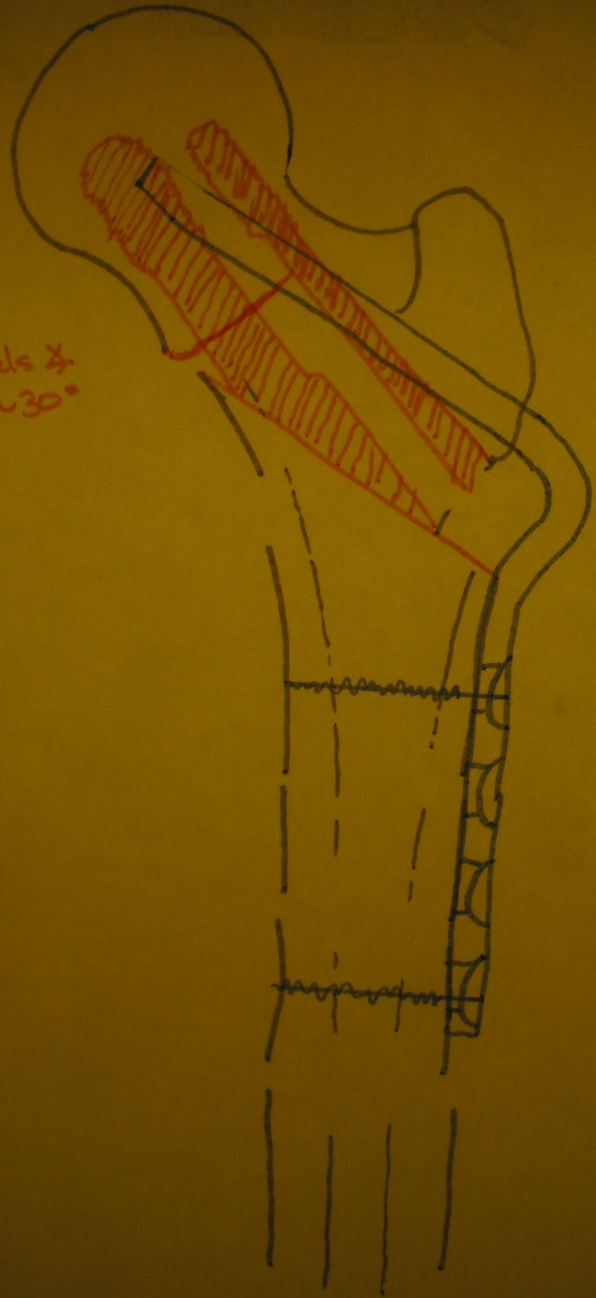
Pin #2

Parallel
to #1

Pin #2

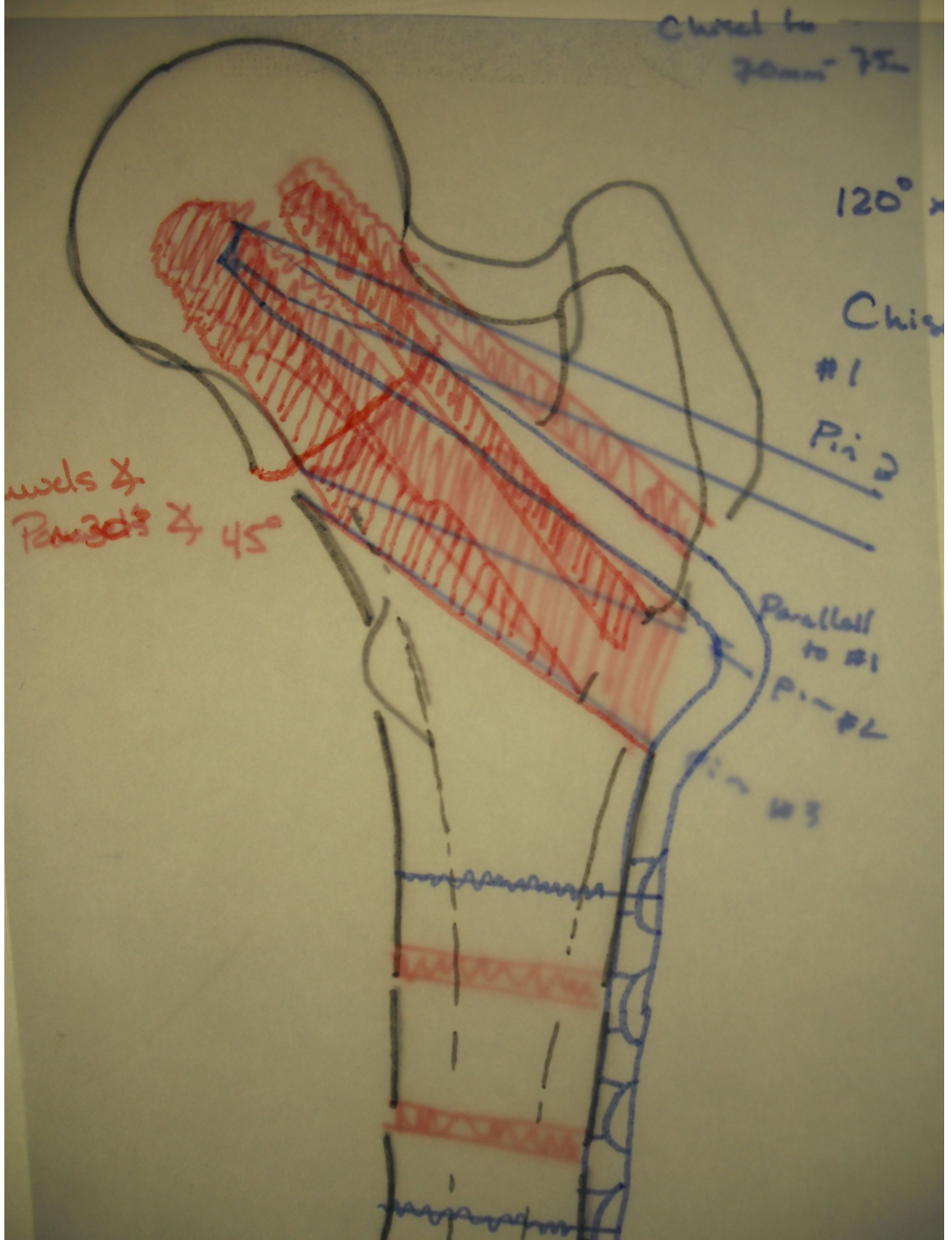
Pin #3

Parasels \approx
 $\approx 30^\circ$



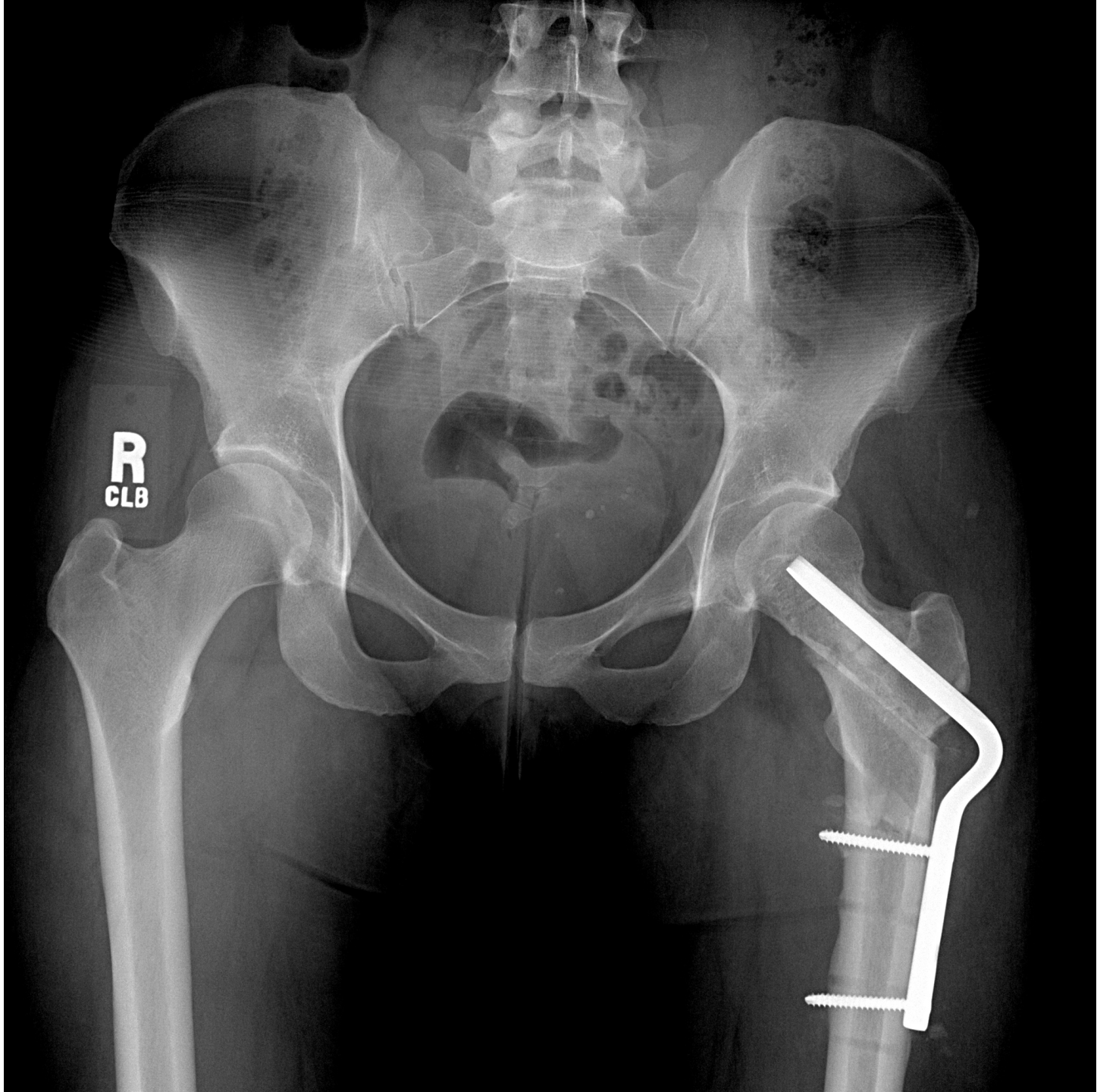
$120^\circ \times 85\text{mm}$

Chisel to 70mm



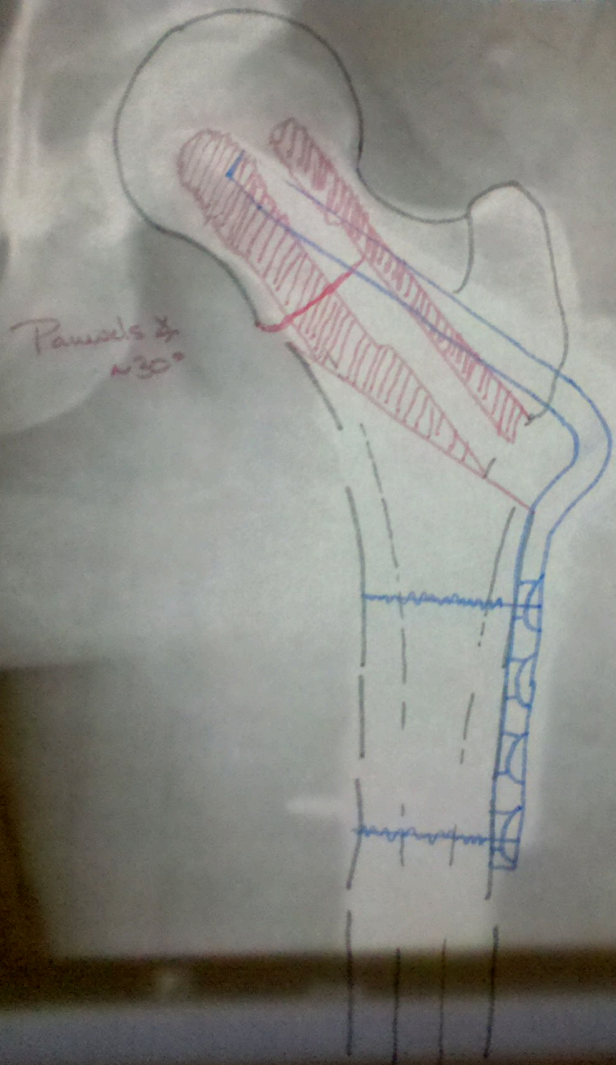
Post op

- Xrays after surgery confirm that the procedure mirrored the preoperative planning.
- Final overlay of preoperative tracing over image demonstrates satisfactory completion of surgical objective.



R
CLB

H



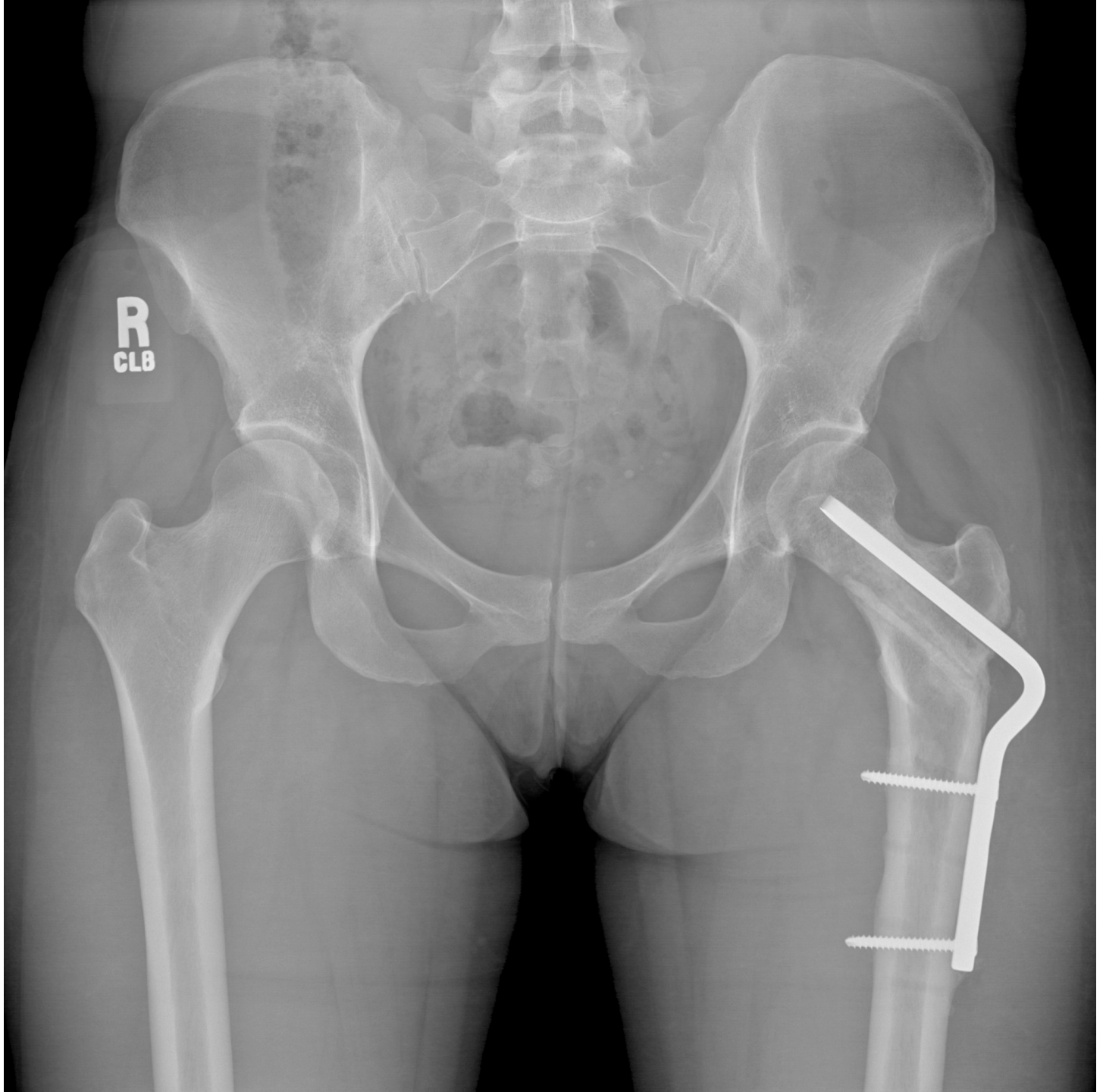
120° x 85mm

Chisel to 70mm

Panuels &
~30°

6 month follow up

- Non painful.
- Clinically healed both nonunion and osteotomy site.
- Working full time.
- Returning to sports.



L
CLB



1 Year



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.