

**‘Changing lives by correcting
deformities’**

New Orthopedic Operating Theatre Expansion Project

**Premier Tertiary Care Children’s
Hospital**

New OT facility



SPECIFIC SERVICES PROPOSED FOR NEW OT

- To establish limb reconstruction service including foot and ankle: for Relapsed CTEV, Skeletal Dysplasia especially Ol, Perthe's , DDH, post traumatic/ post infective deformities and other congenital deformities.
 - To establish a spine unit in managing all pediatric spine disorders
 - To establish neuromuscular service with aim of establishing a gait laboratory facility for cerebral palsy, myelomeningocele and muscular dystrophy children
 - Application of flexible intramedullary nailing in both trauma and elective conditions.
 - To provide a variety of joint preserving surgeries for children and adolescents : for hip dysplasia, sports injuries.....
-

Facilities in need of

The below listed Issues take utmost priority

1. Equipment and implants for Spine Surgeries
2. Equipment and implants for Orthopaedic Surgeries

- 55 million LKR

- 100 million LKR



Services provided

- Club foot care
 - Trauma service
 - Pediatric limb reconstruction service
 - Spine service
 - Undergraduate and Postgraduate training
 - Research
-

Established club foot clinic



- ❖ **Electronic web data base**
- ❖ **Members of PIA**
- ❖ **400 cases/year**
- ❖ **Success 97%**
- ❖ **Tenotomy rate 80%**

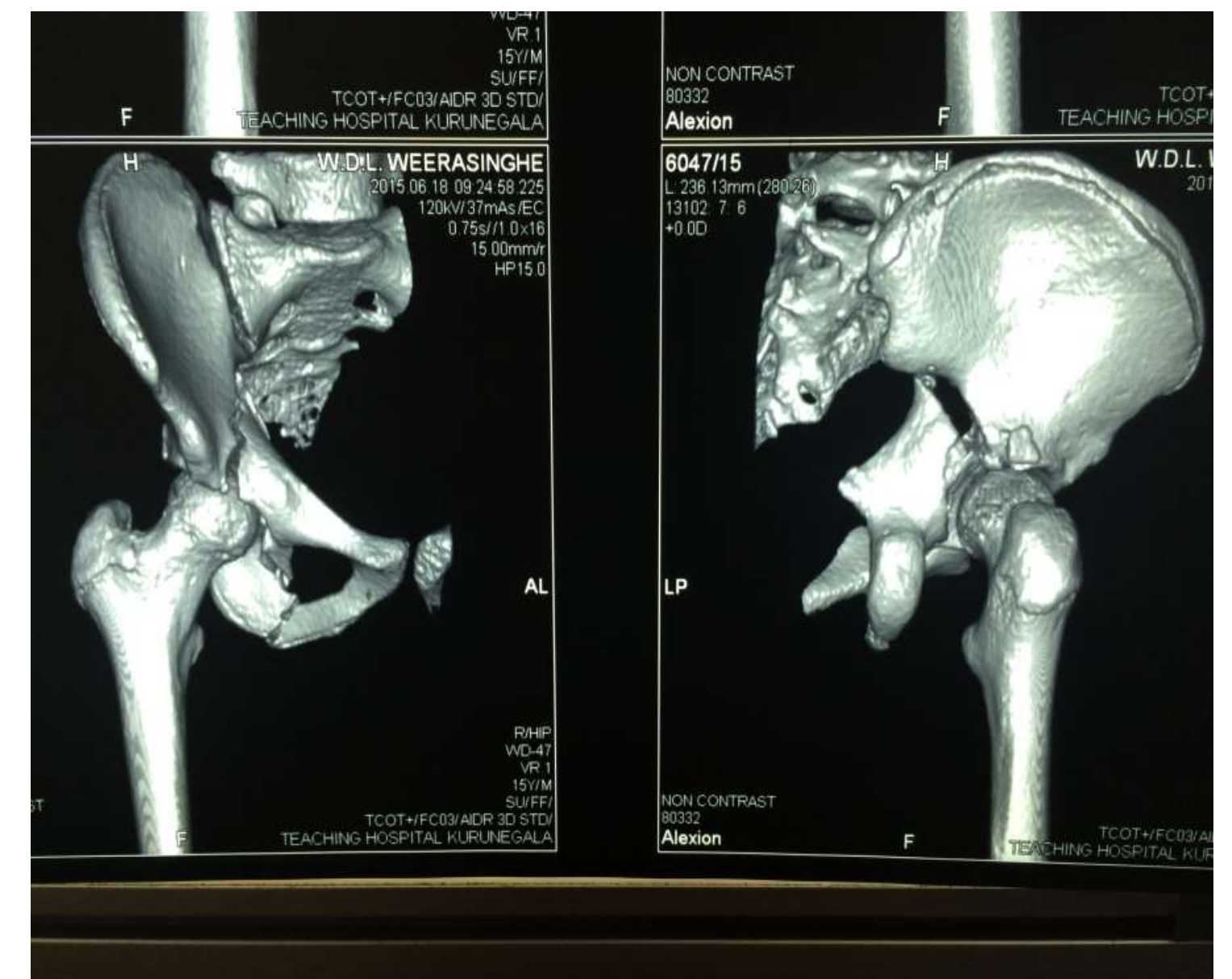


Trauma Care

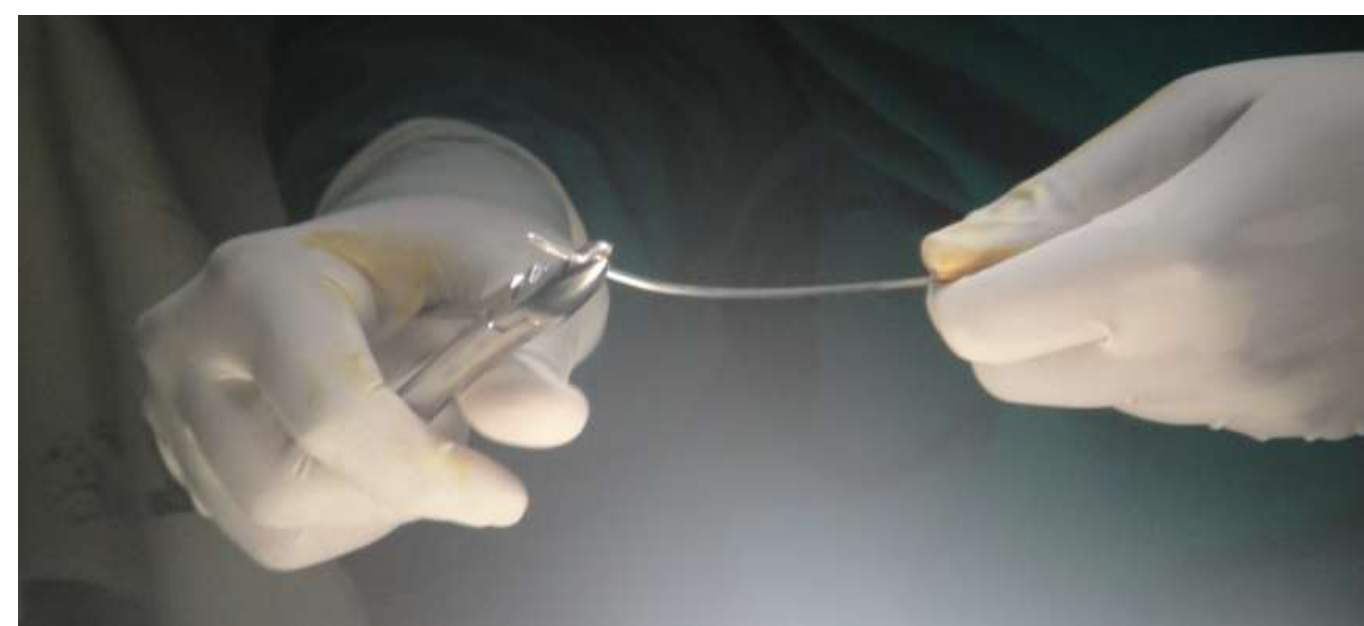
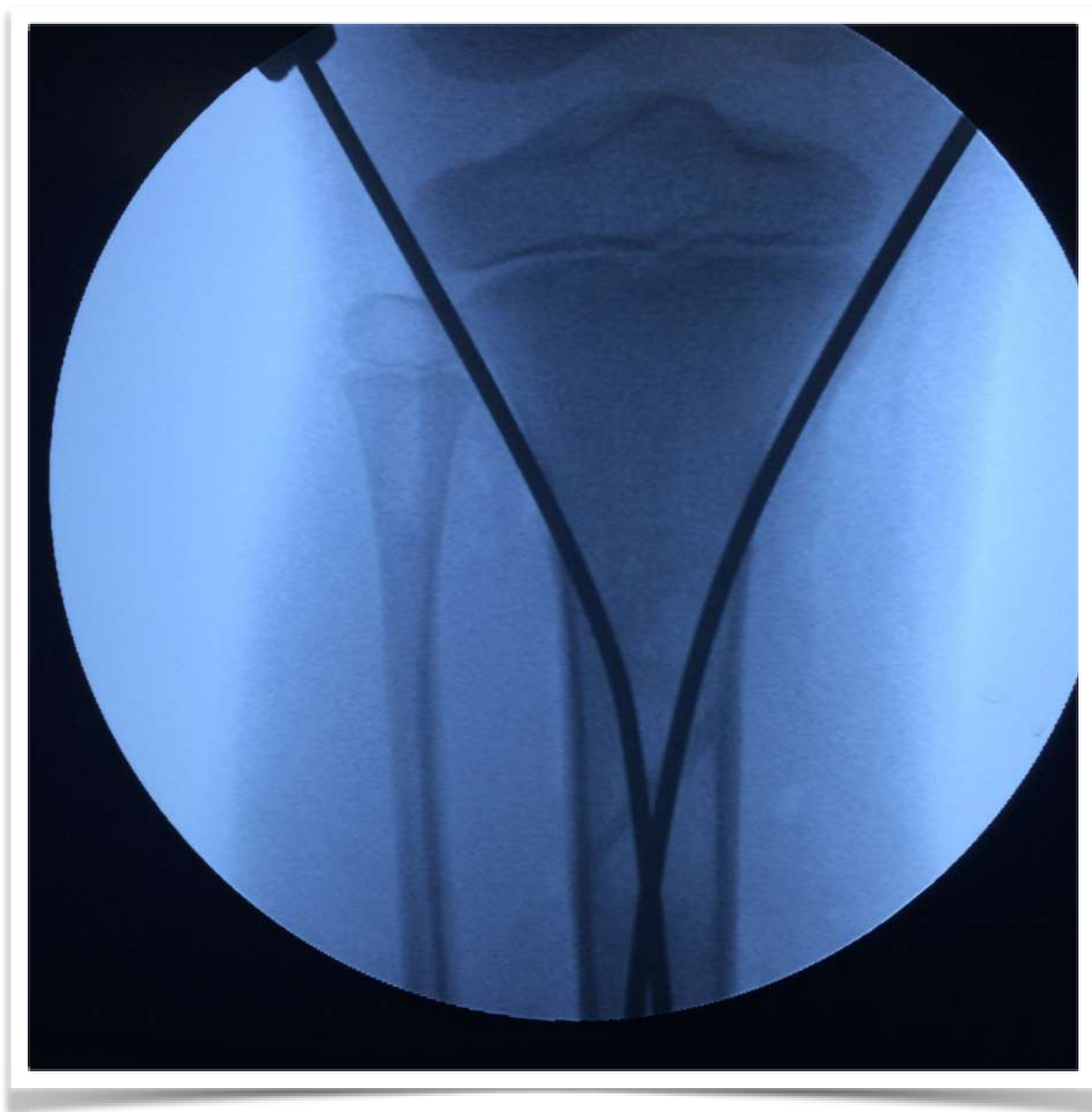


COMPLEX TRAUMA

15 year RTA, sciatic
nerve injury



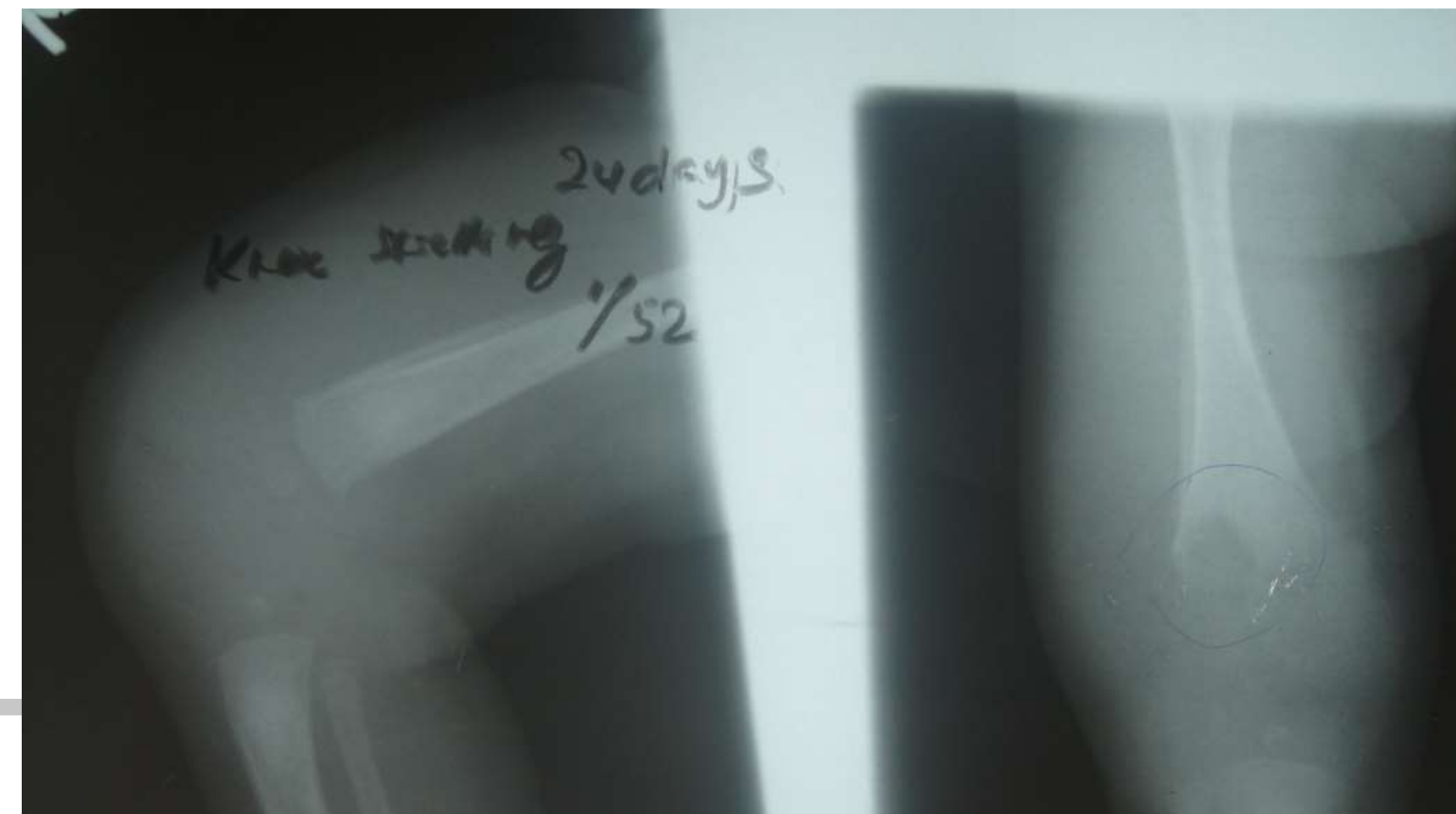
FLEXIBLE INTRAMEDULLARY NAILING



BONE AND JOINT INFECTION



- Delay in presentation to OT
- Need guideline & education for early diagnosis to prevent complications



CEREBRAL PALSY



GROWTH MODULATION



After 1.5 years



OSTEOGENESIS IMPERFECTA

3 year OI bilateral anterior bowing of tibia, non walker

Ideally need telescopic nails



10 year, type 3, left tibia, deformity with malrotation, non walker



Post Op. 2 year, able to ambulate independently



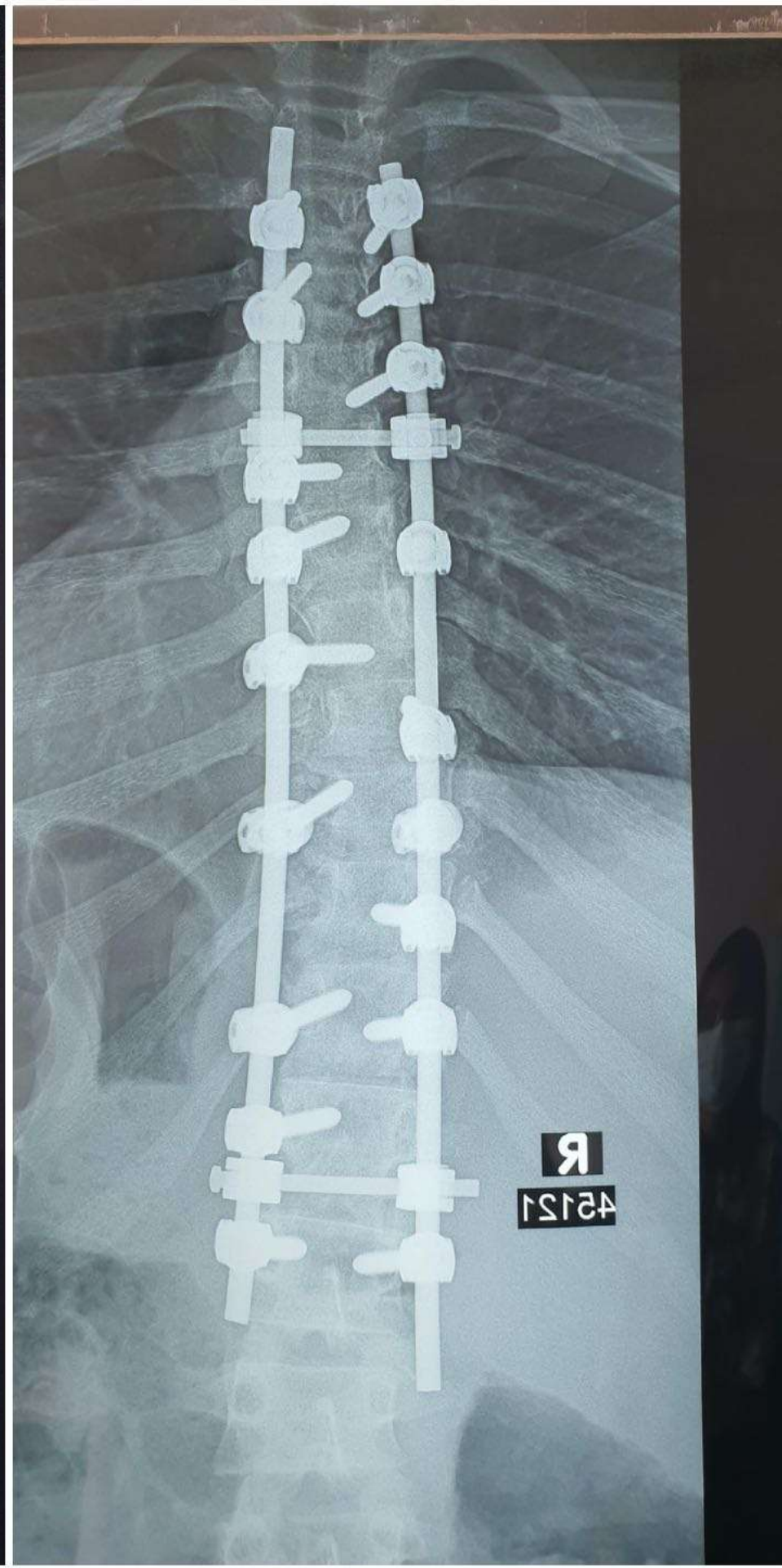
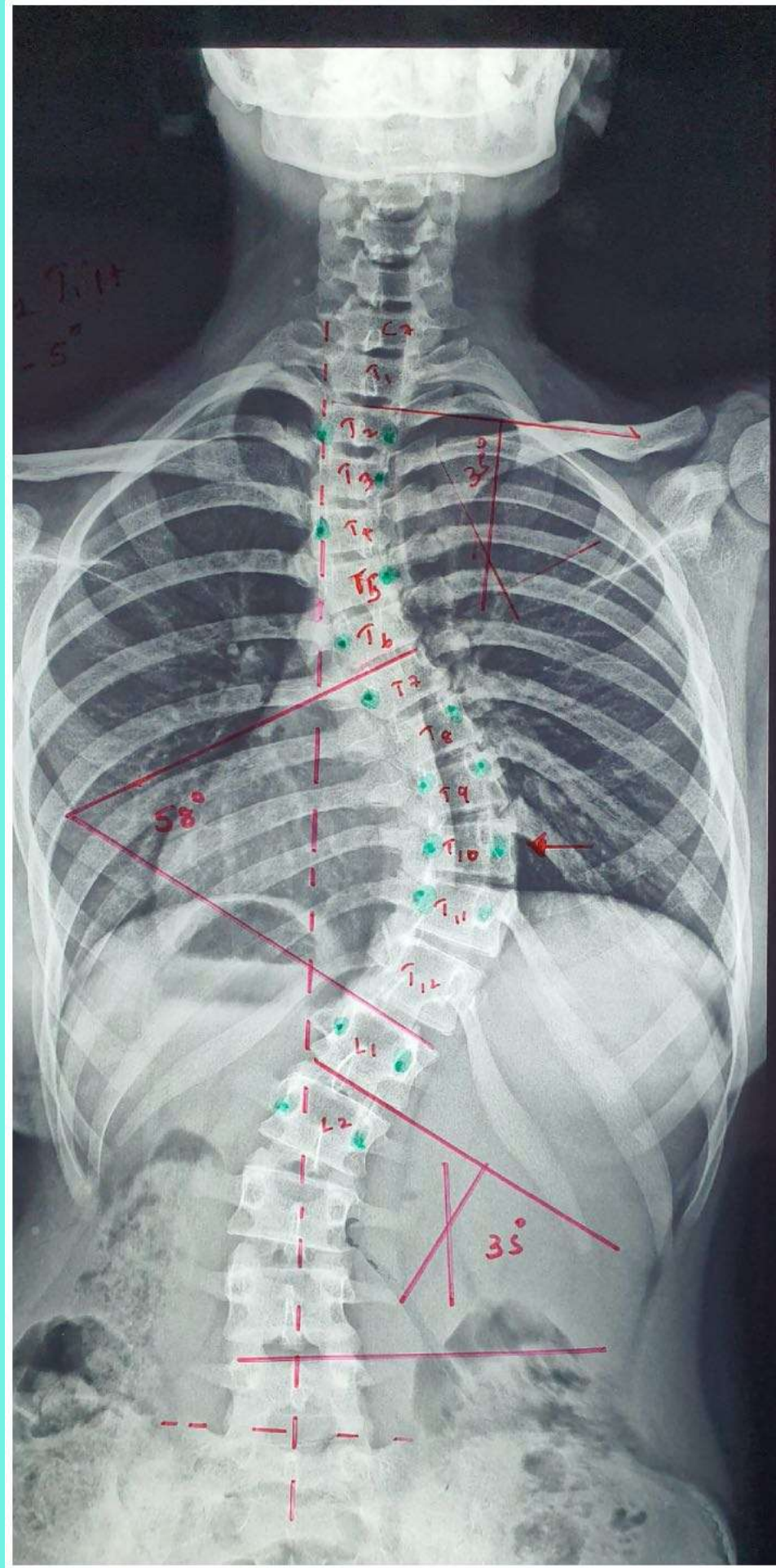
Spine Deformity Correction Service

- National Hospital of Sri Lanka is the only government hospital which caters to spine deformities.
- Yet very few get down due to overwhelming case burden and due to lack of resources.
- There was no specialised centre to cater to spine deformities in Children
- Recently this Tertiary Care Children's Hospital has started performing Spine deformity surgeries in children.

Complex 3D Deformity

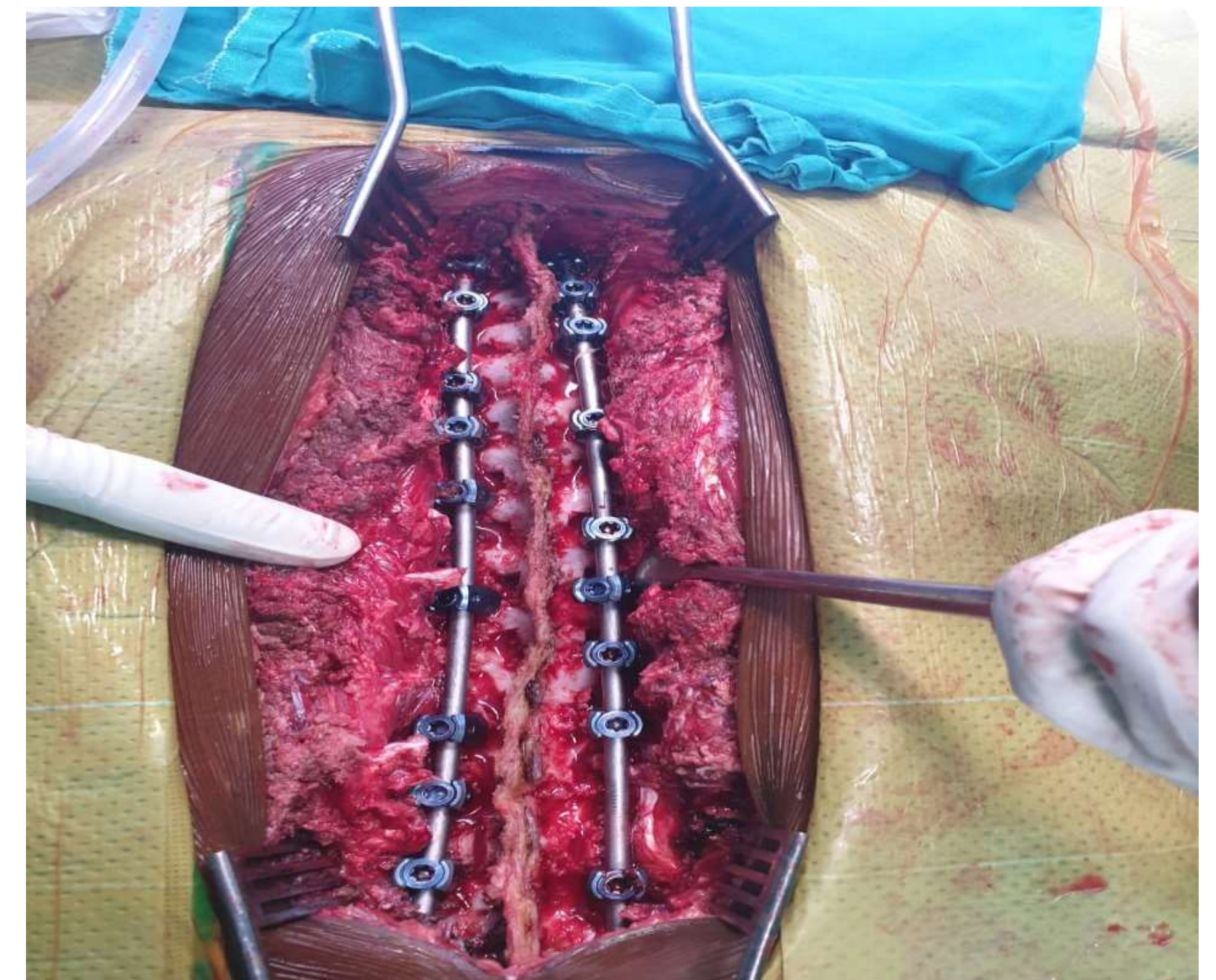
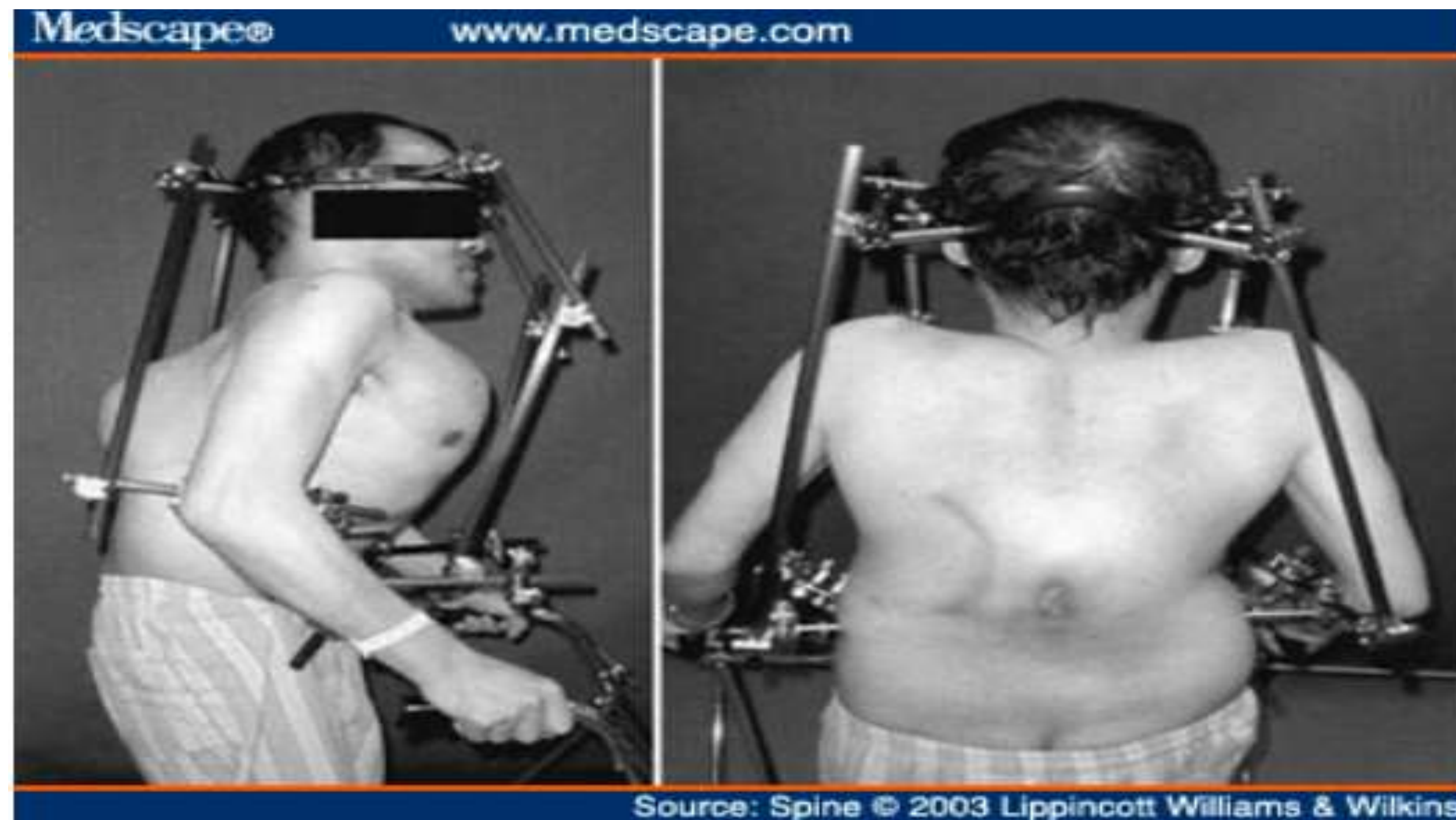


Successful surgery could make a world of difference for these kids



Rate limiting constraints for spine deformity surgery in Sri Lanka

1. Cost of implants – It costs nearly 1 million LKR for implants alone for one scoliosis correction.
2. Currently patients has to bear the cost for implants.
3. Equipment



PEDIATRIC LIMB RECONSTRUCTION SERVICE

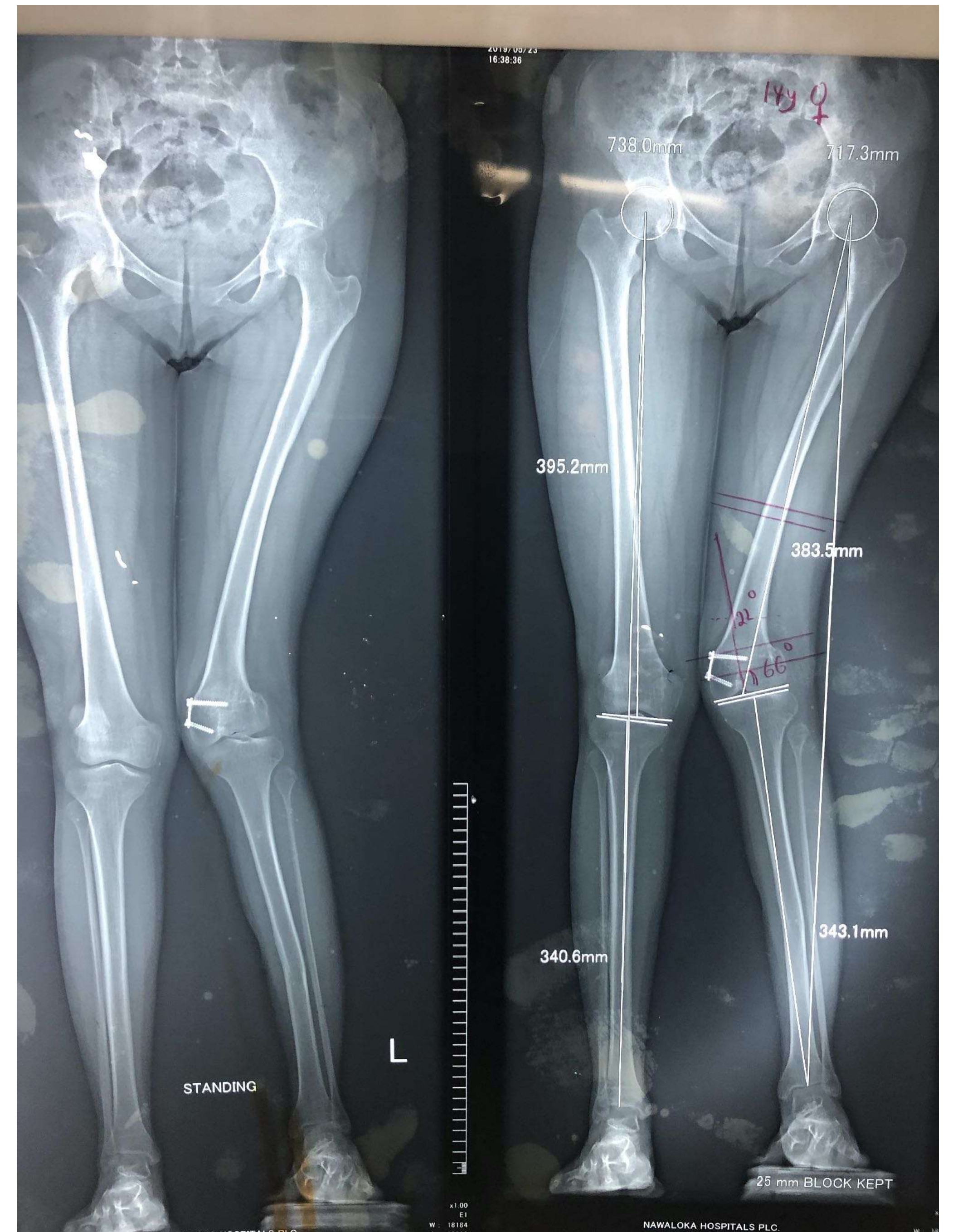


**7y congenital
short femur,
LLD 4.1cm,
genuvalgus**

At recent clinic visit (13y)



14 years old left knee deformity following a RTA 4 years ago



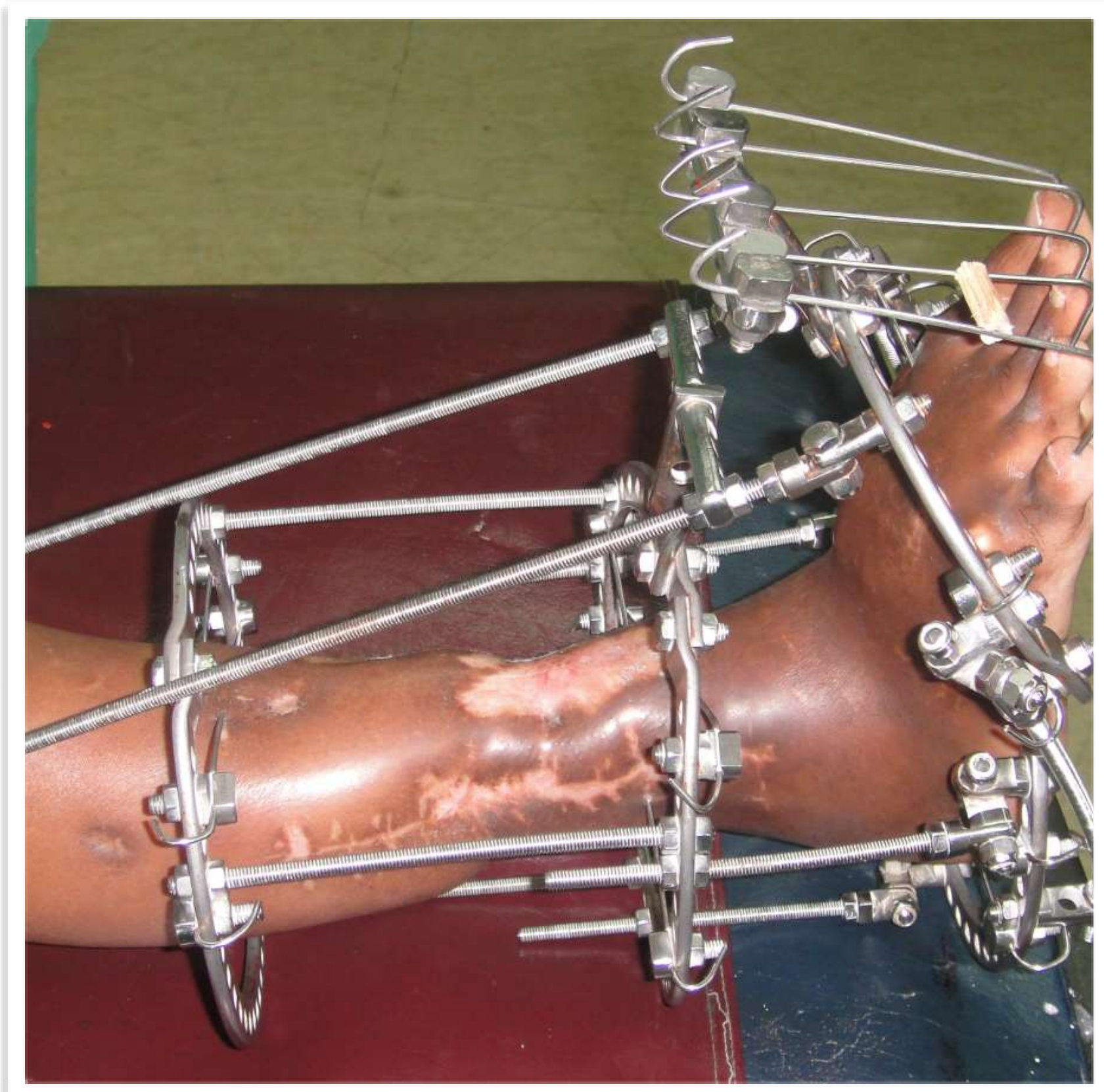
Underwent LRS in Jan 2020



15 Sep 2020

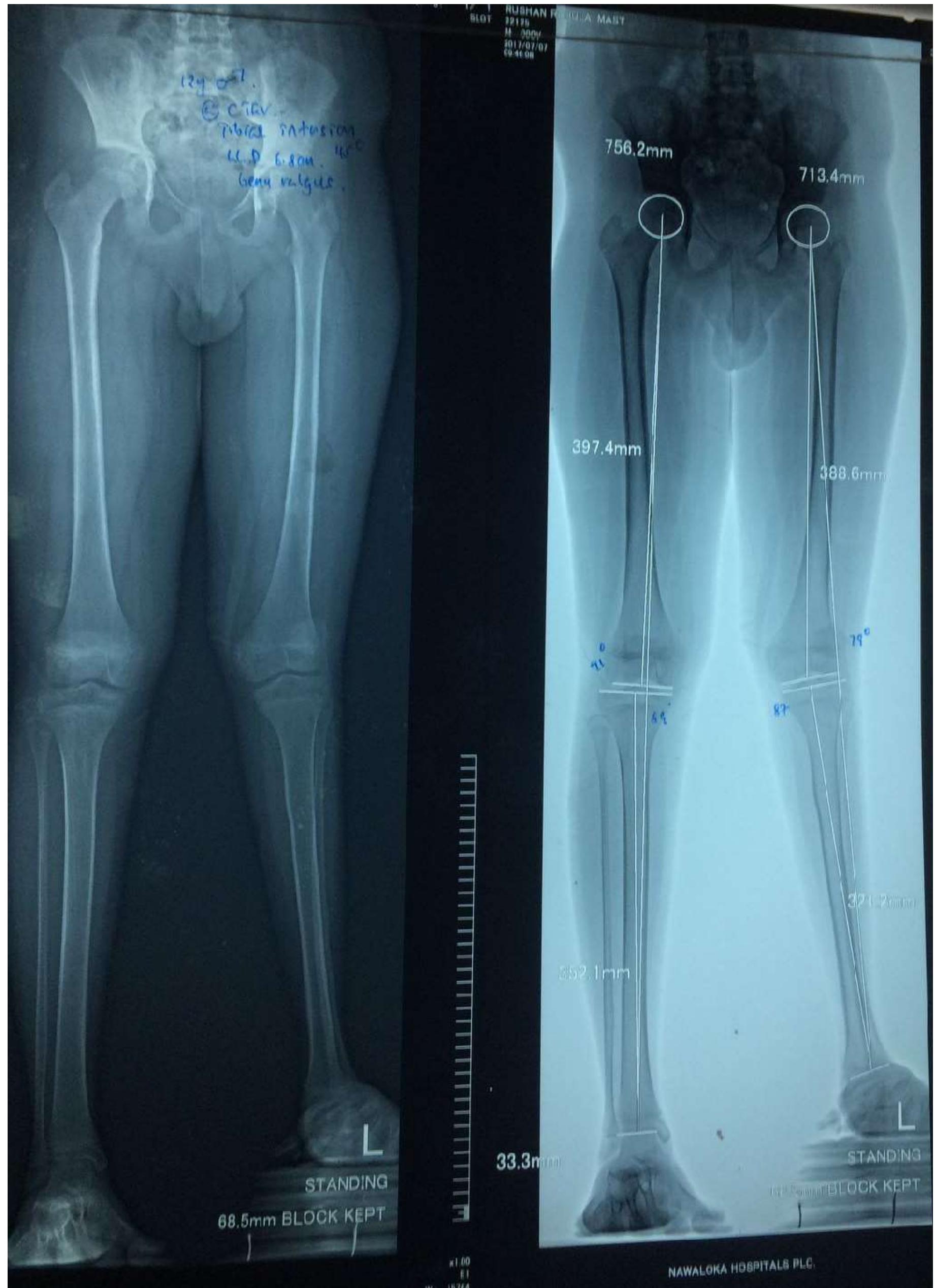


ILIZAROV WORK



12 years old boy , LLD, Genu valgus, tibial intorsion and Cavovarus foot

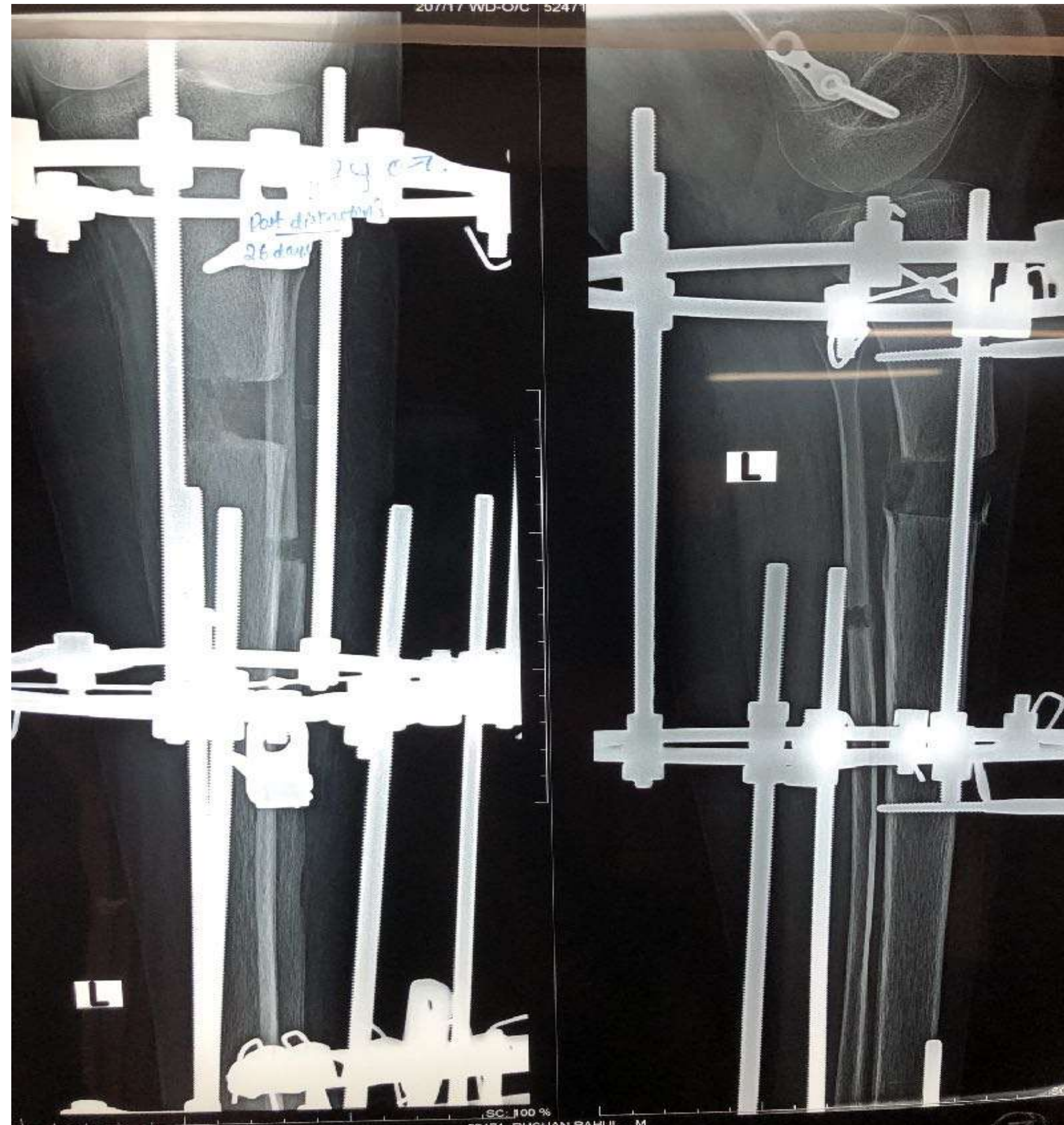




Genu valgus improved after growth modulation



Staged foot osteotomies with differential distraction and proximal lengthening of tibia using Ilizarov frame



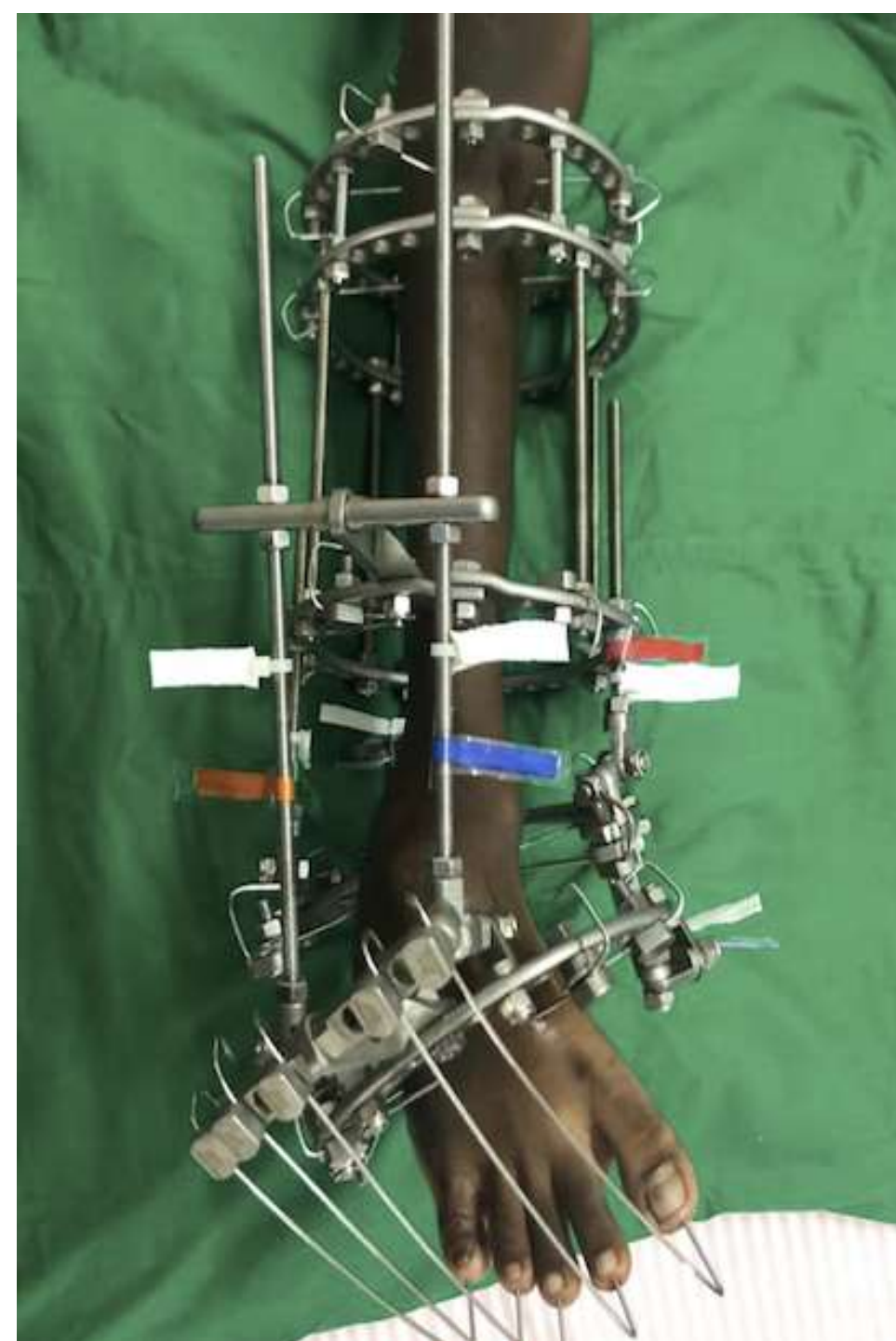
Pre-operation



6 months post operation



12y old boy B/L stiffed rigid clubfeet corrected using Ilizarov



Right foot
was
corrected
first
after 6
weeks



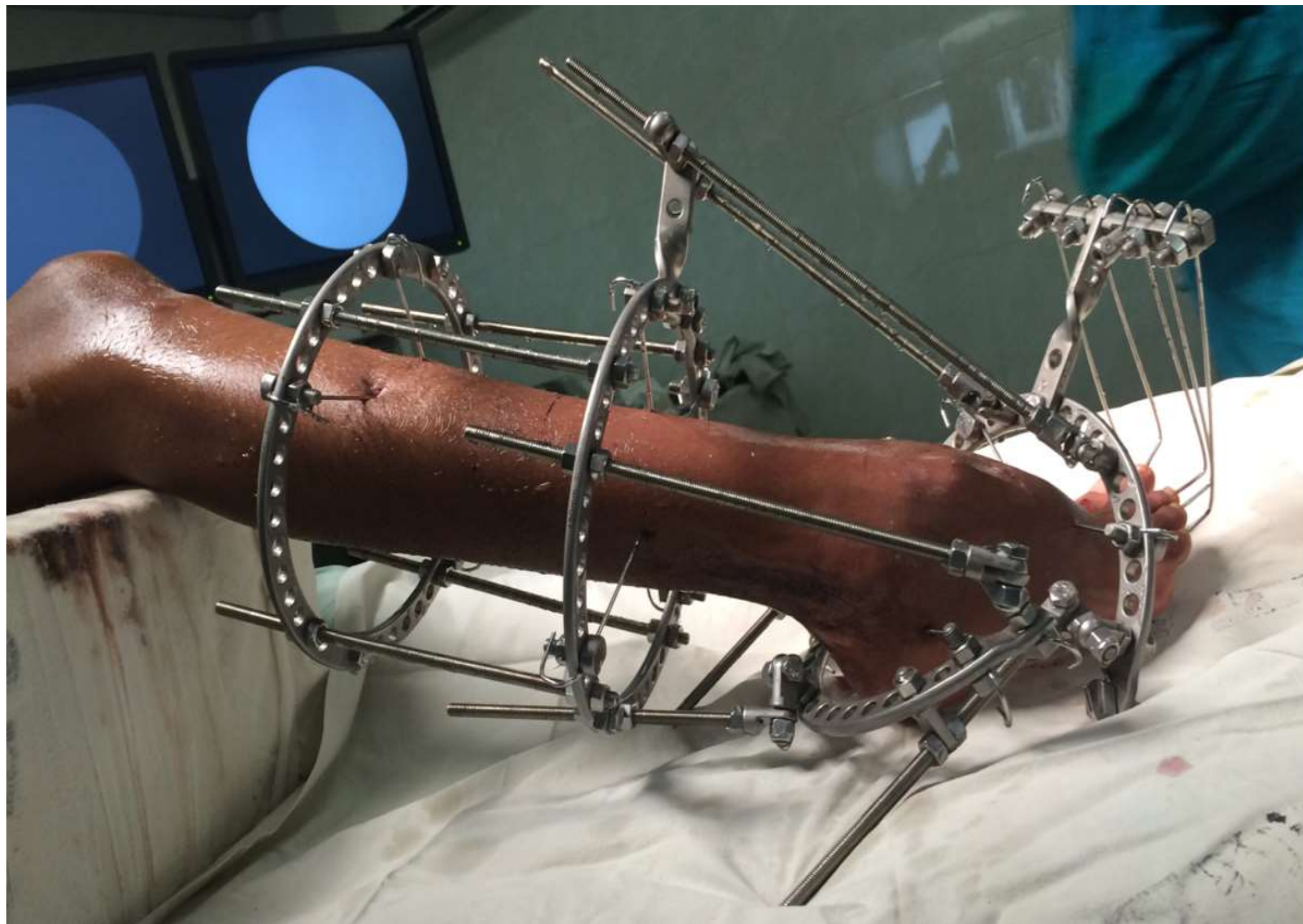
Left foot was corrected



**17 year old girl - leg ischemic contracture due to
compartment syndrome following a cobra bite**



Ilizarov foot frame + toe wiring and hind foot osteotomy



six weeks after staged foot osteotomies
and differential distraction

cast bracing



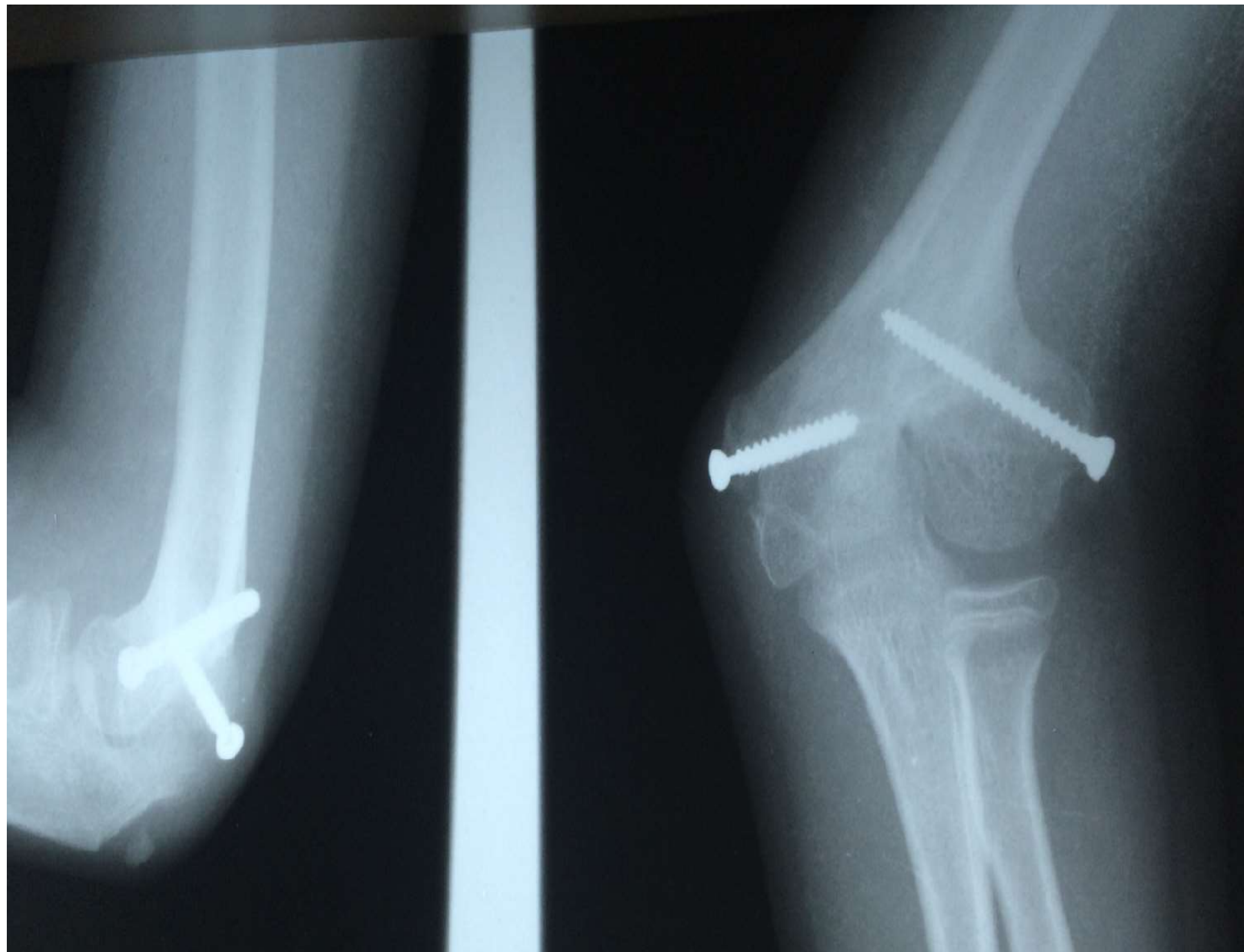
After 3 months.....



11 years old boy left elbow valgus deformity and instability, ROM full, no pain, no Tardieu ulnar



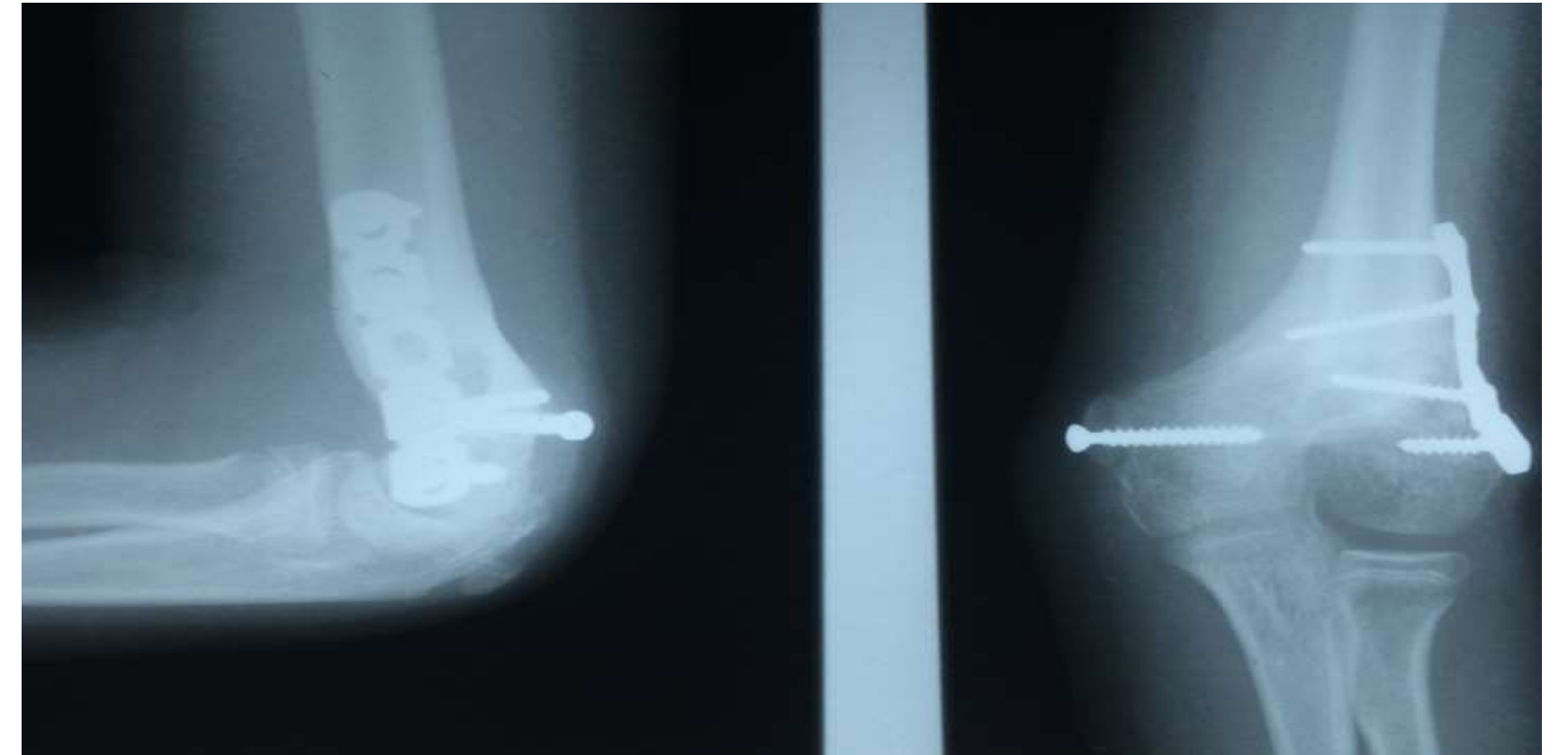
**Non union healed but
no growth modulation**



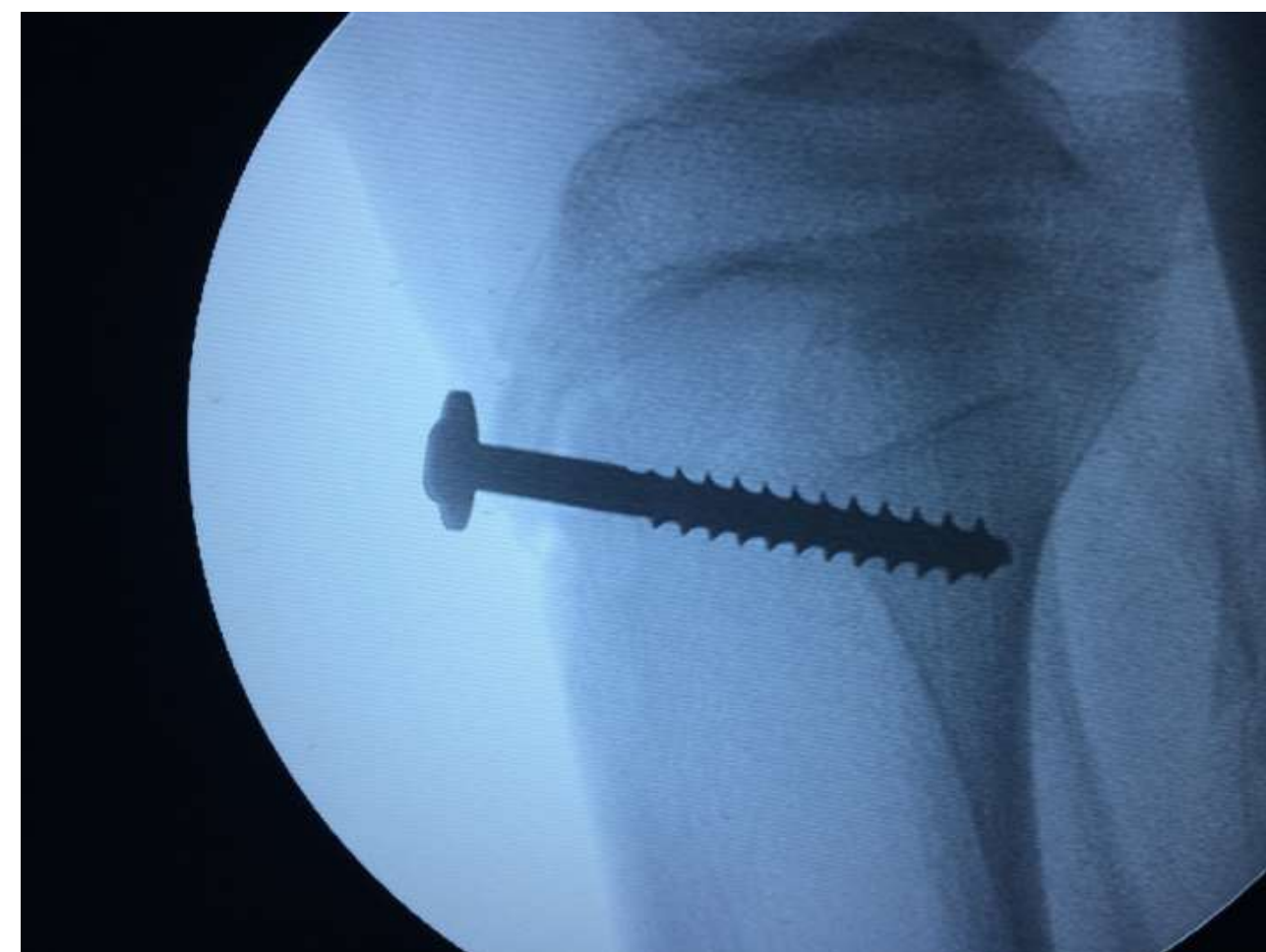
**Rotation and angular correction
using osteosynthesis**



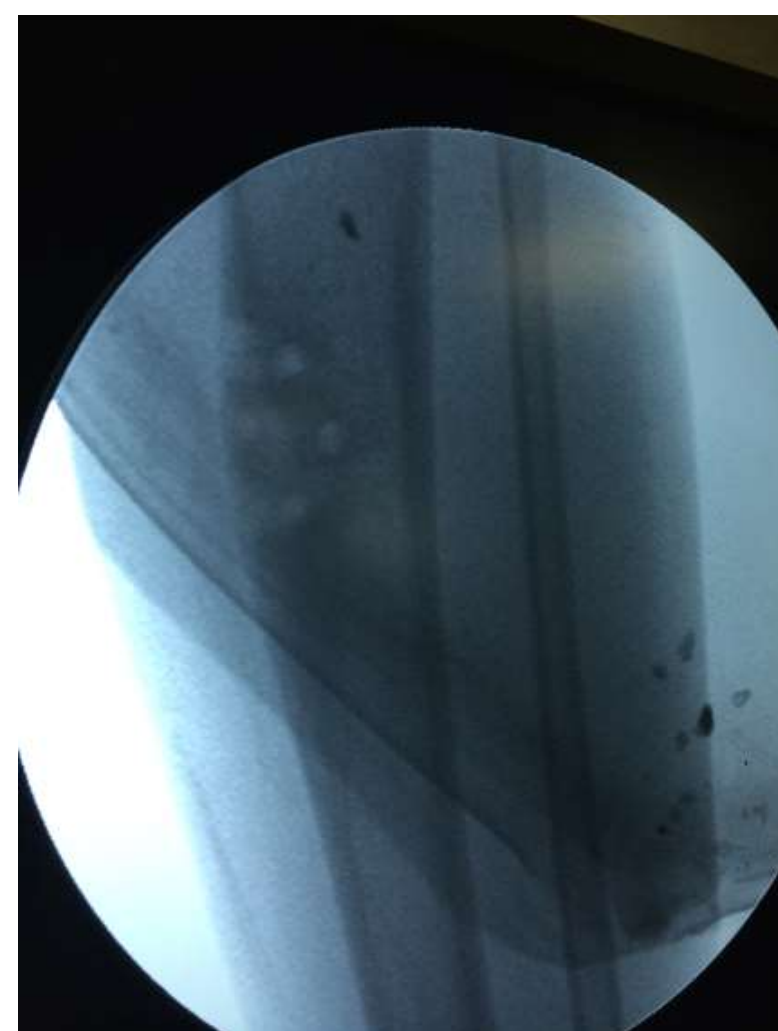
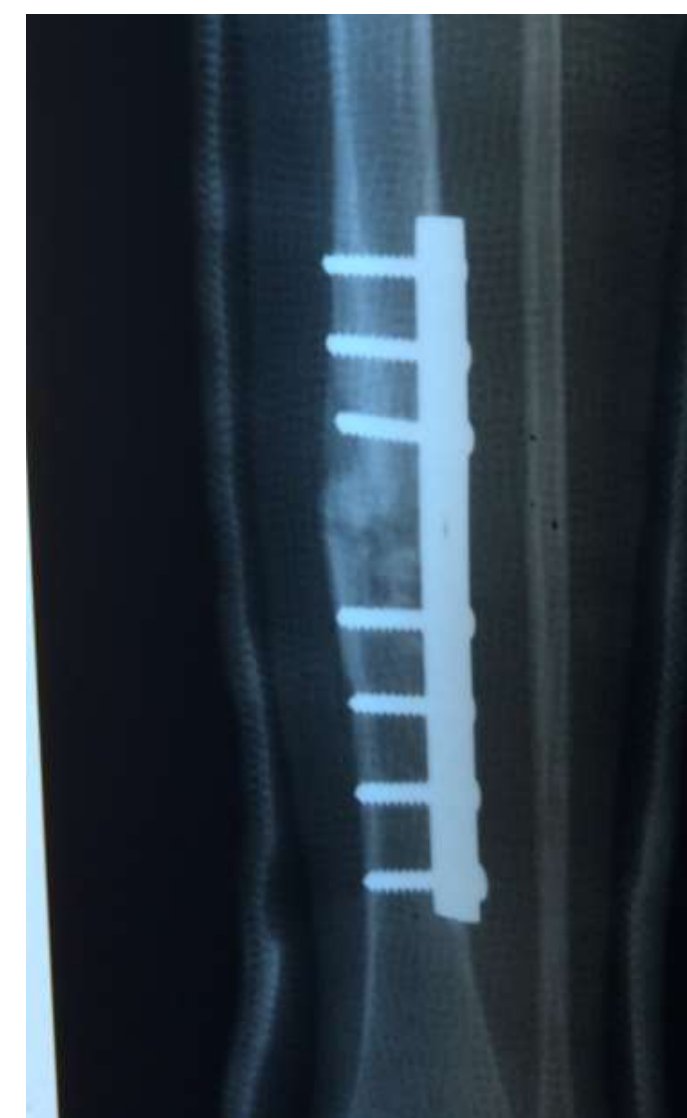
**3 months
post
operation**



SPORTS SERVICE



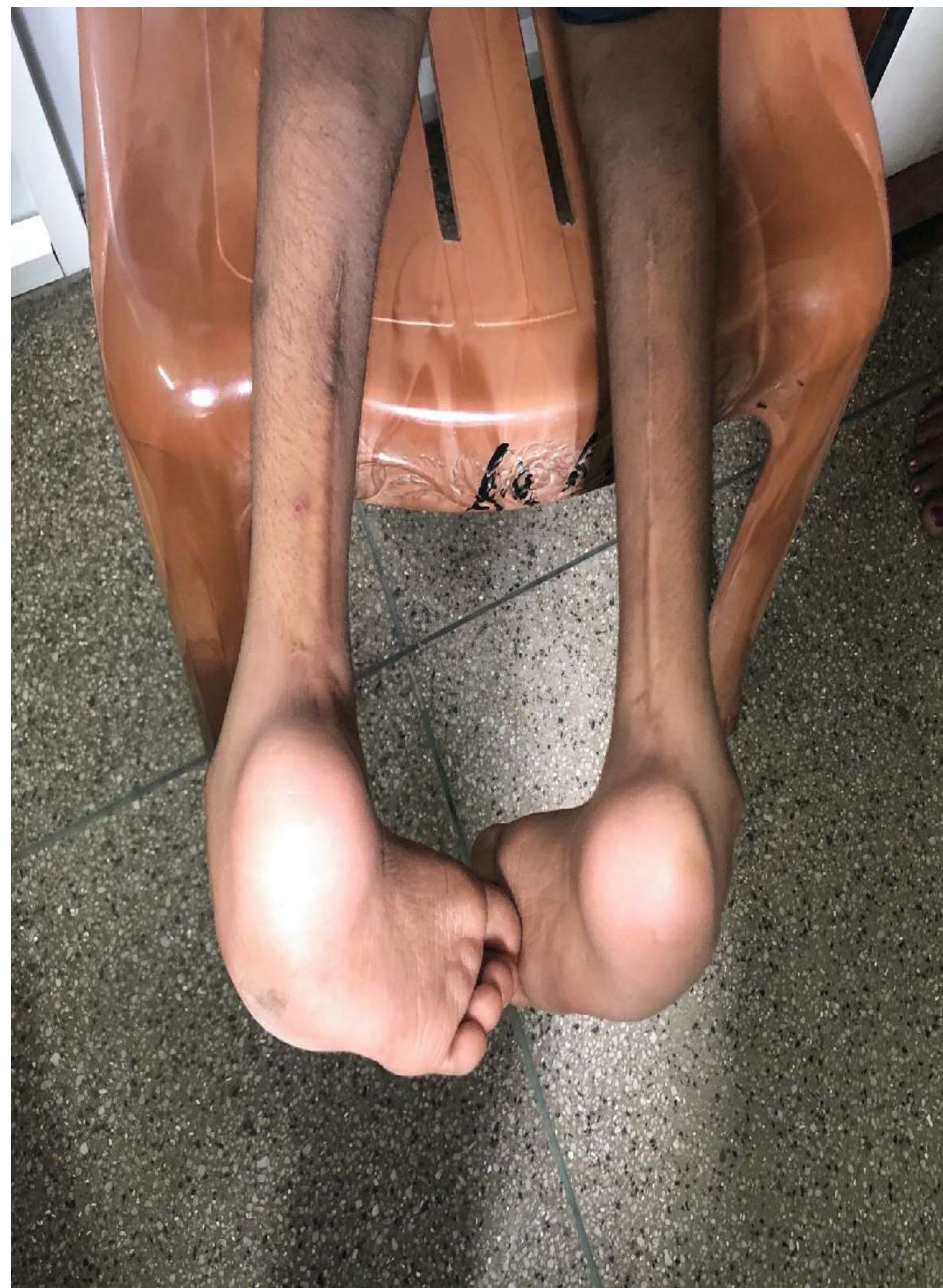
TUMOR SERVICE



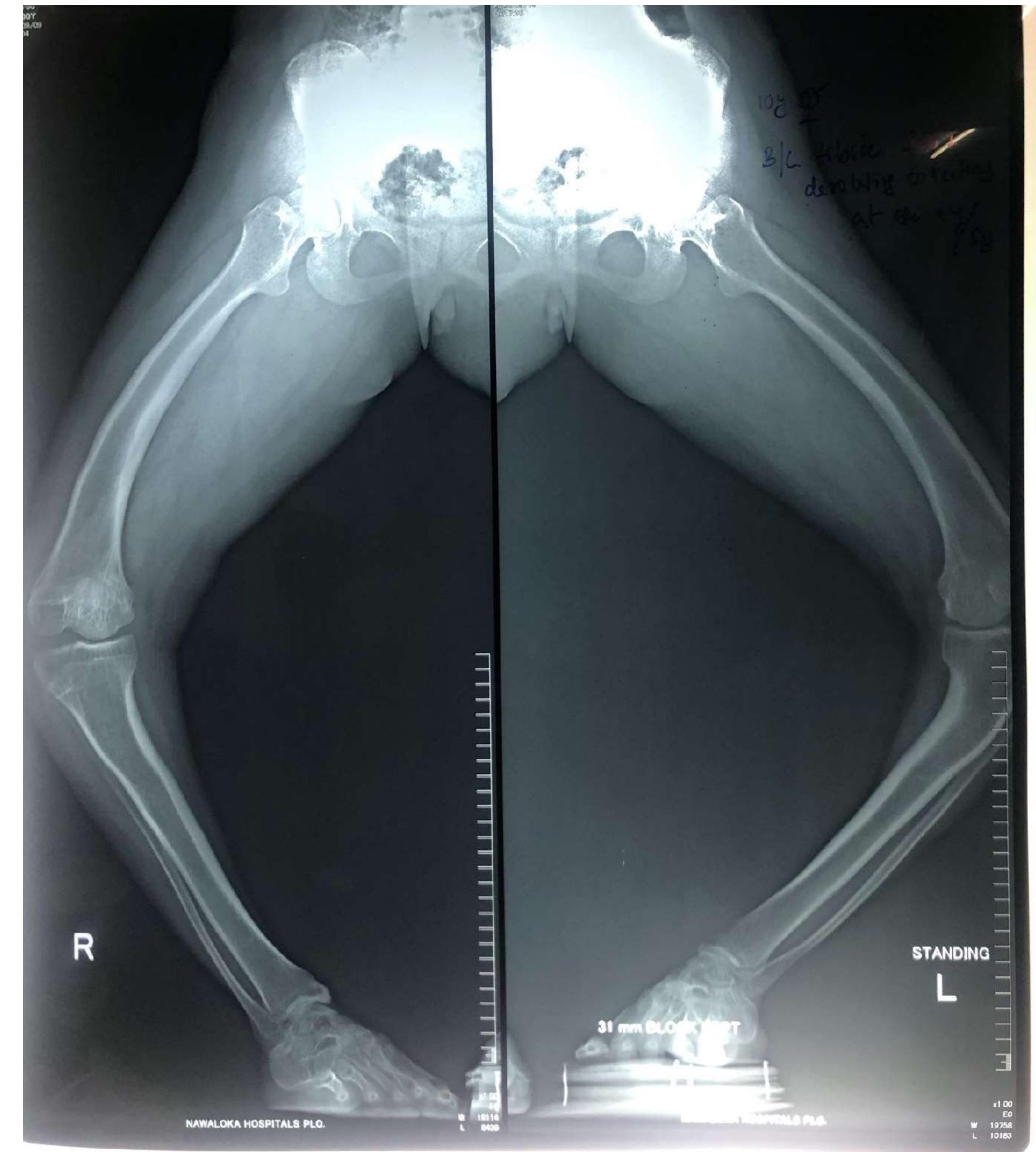
**Non Ossifying Fibroma with
pathological fracture**



Awaiting surgery ????



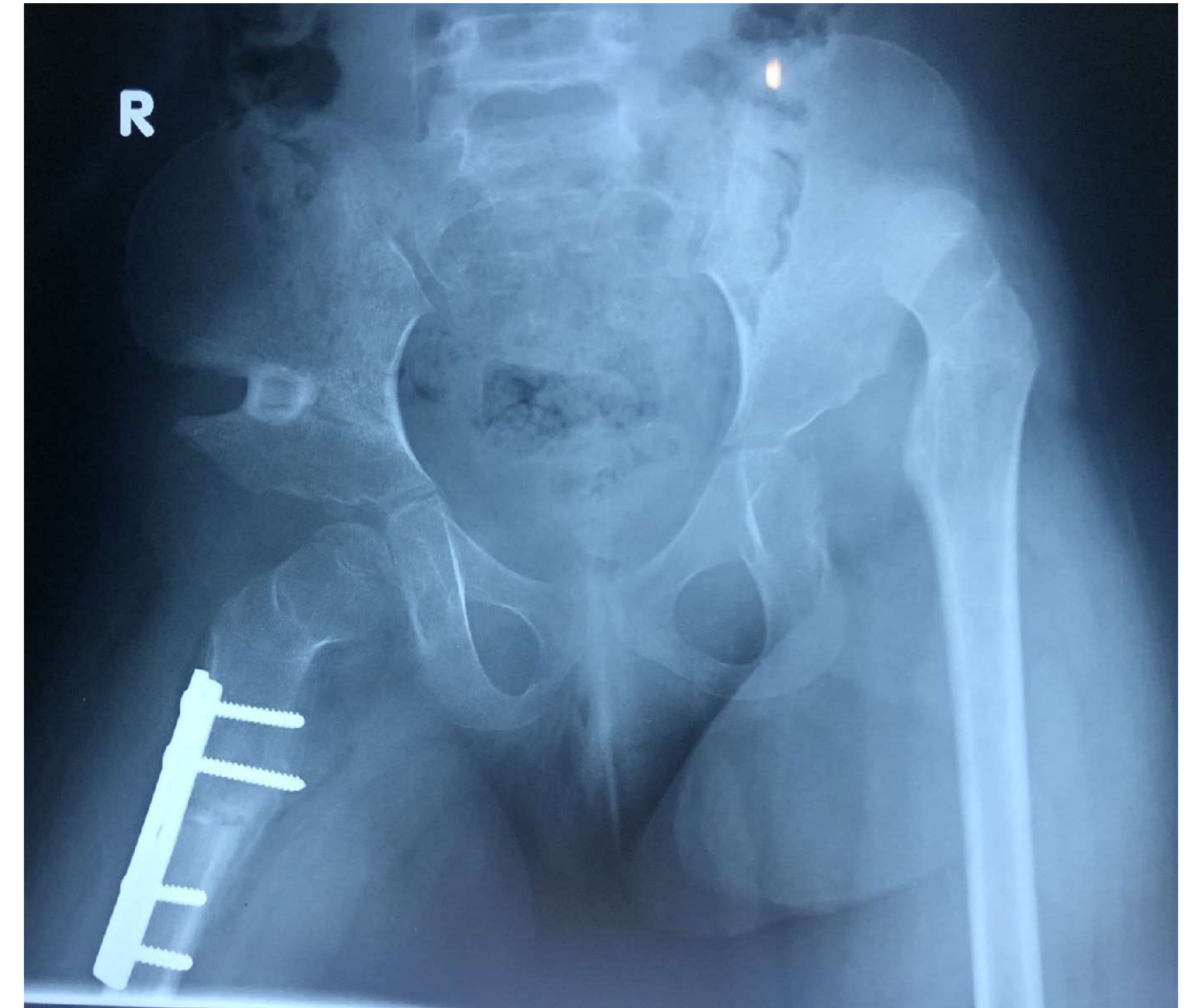
Awaiting surgery????



Awaiting surgery????



Awaiting surgery????



Immediate essential items needed to commence the Operating Theatre Phase 1 of Project on Global Giving

Description	Value-RS	Millions
General Instrument set	1,643,158.77	1.64
Wire Instrument set	1,071,846.44	1.07
LCP/DCP 3.5 MM INSTRUMENT SET FOR SMALL FRAGMENTS	1,672,079.31	1.67
Tourniquet system complete set	1,500,000.00	1.50
Cannulated Paediatric osteotomy system (CAPOS)	4,325,413.20	4.33
Expert Adolescent Lateral Femoral Nail Instrument set	5,094,850.82	5.09
LCP 2.7/3.5/5mm PAEDIATRIC PLATE SYSTEM	4,641,255.33	4.64
Colibri Drill 2	9,848,218.25	9.85
4mm Cannulated Set	4,961,311.32	4.96
Slipped Capital Femoral Epiphysis (SCFE) Instruments	4,148,683.83	4.15
Spine implants for 5 patients	5,000,000.00	5.00
Total	43,906,817.27	43.9