

Live surgery - 5

- Case: Adult acquired flat foot deformity left foot
- Procedure: Flat foot deformity correction left foot.



- Brief history – complaints of **left foot** and ankle pain since 1.5 years
 - No history of trauma, no history of pain in other joints
 - No medical comorbidities

Clinical examination Left foot

- Inspection – swelling + over medial side of mid foot
 - Forefoot in abduction
 - collapsed medial arch
 - hindfoot in valgus
- Palpation – plantar flexion : 0 – 40°
- - Dorsiflexion : 0 – 20°
- - Inversion & eversion : restricted and painful



FOREFOOT
ABDUCTION

Left foot affected side



COLLAPSED MEDIAL ARCH

left foot affected side

left foot affected side

TOO MANY
TOES SIGN

HINDFOOT
VALGUS



CLINICAL VIDEOS



left foot affected side



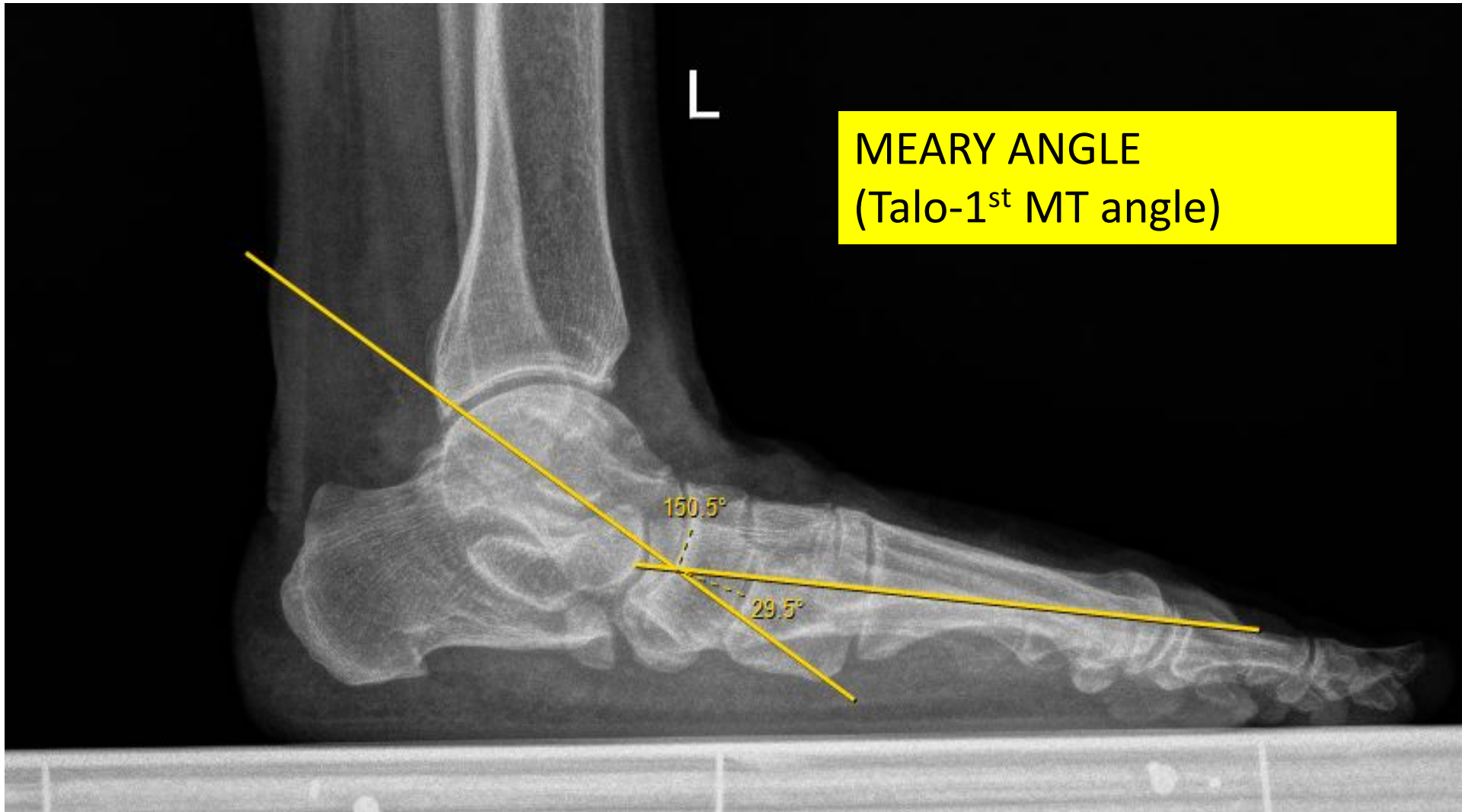


left foot affected side

Clinical Videos

Radiograph measurements

NORMAL – 0 DEGREE
(TO IDENTIFY APEX OF
DEFORMITY IN PES
PLANUS/PES CAVUS)

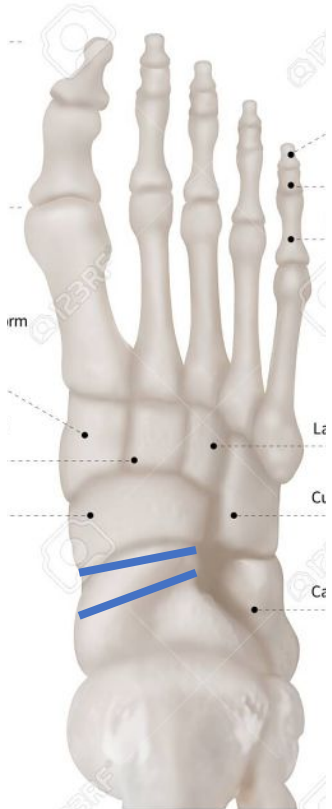


MEARY ANGLE
(Talo-1st MT angle)

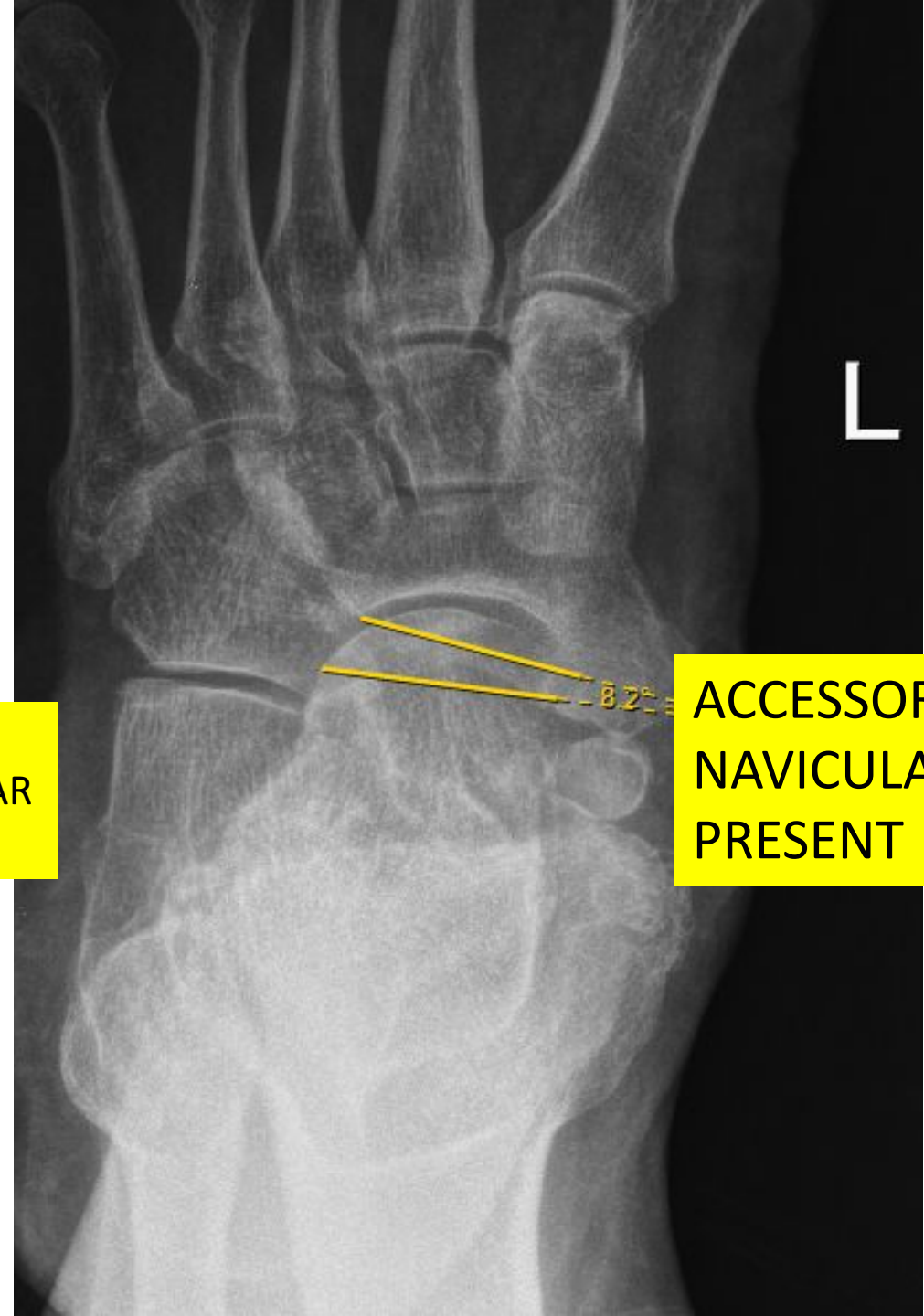
AFFECTED SIDE – 29.5° downward convexity signifies pes planus

TALONOVICULAR COVERAGE ANGLE

NORMAL $<7^{\circ}$



AFFECTED FOOT TALONOVICULAR
COVERAGE ANGLE – 8.2° (DENOTES TALAR
HEAD UNCOVERAGE)



ACCESSORY
NAVICULAR
PRESENT

Talo-1st MT angle AP view

NORMAL – $7^{\circ} \pm 4^{\circ}$

(TO ASSES MIDFOOT
ABDUCTION/ADDUCTION)



AFFECTED SIDE – -0.5°



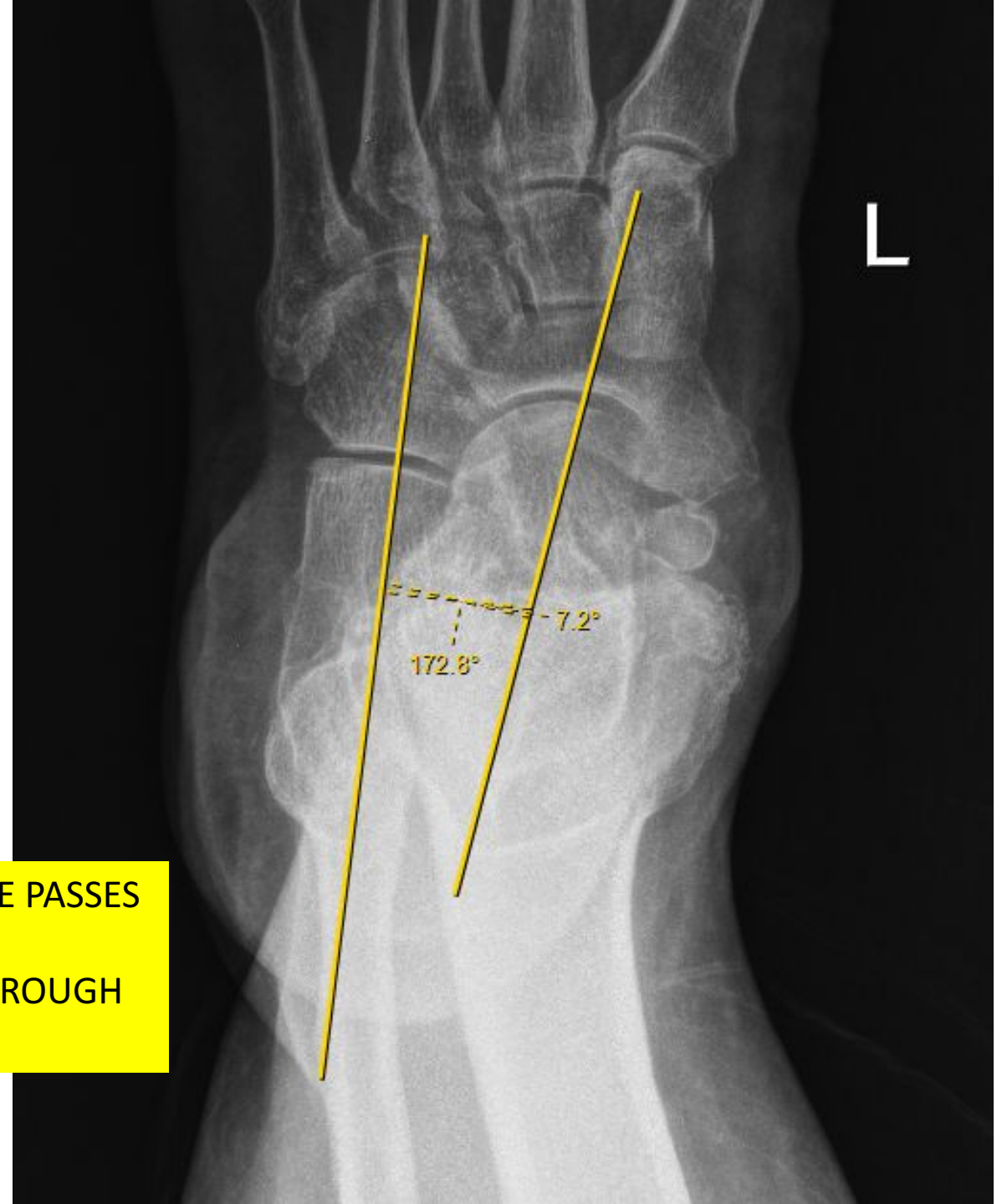
AP TALO-CALCANEAL ANGLE

(FOR HIN FOOT VALGUS)

NORMAL – MIDTALAR LINE
PASSES THROUGH BASE OF 1ST MT AND MIDCALCANEAL
LINE PASSES THROUGH BASE
OF 4TH METATARSAL

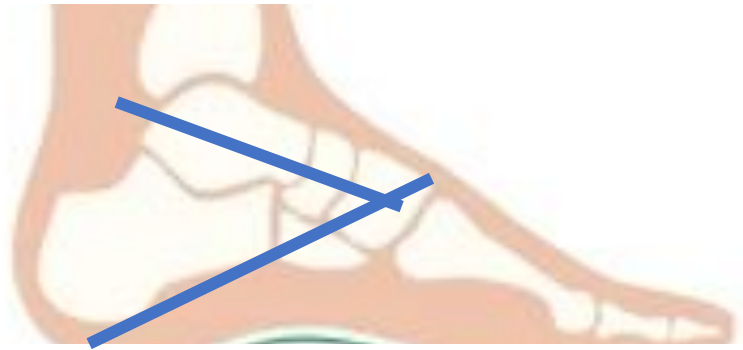


AFFECTED SIDE – MIDTALAR LINE PASSES
THROUGH BASE OF 1ST MT AND
MIDCALCANEAL LINE PASSES THROUGH
BASE OF 4TH METATARSAL



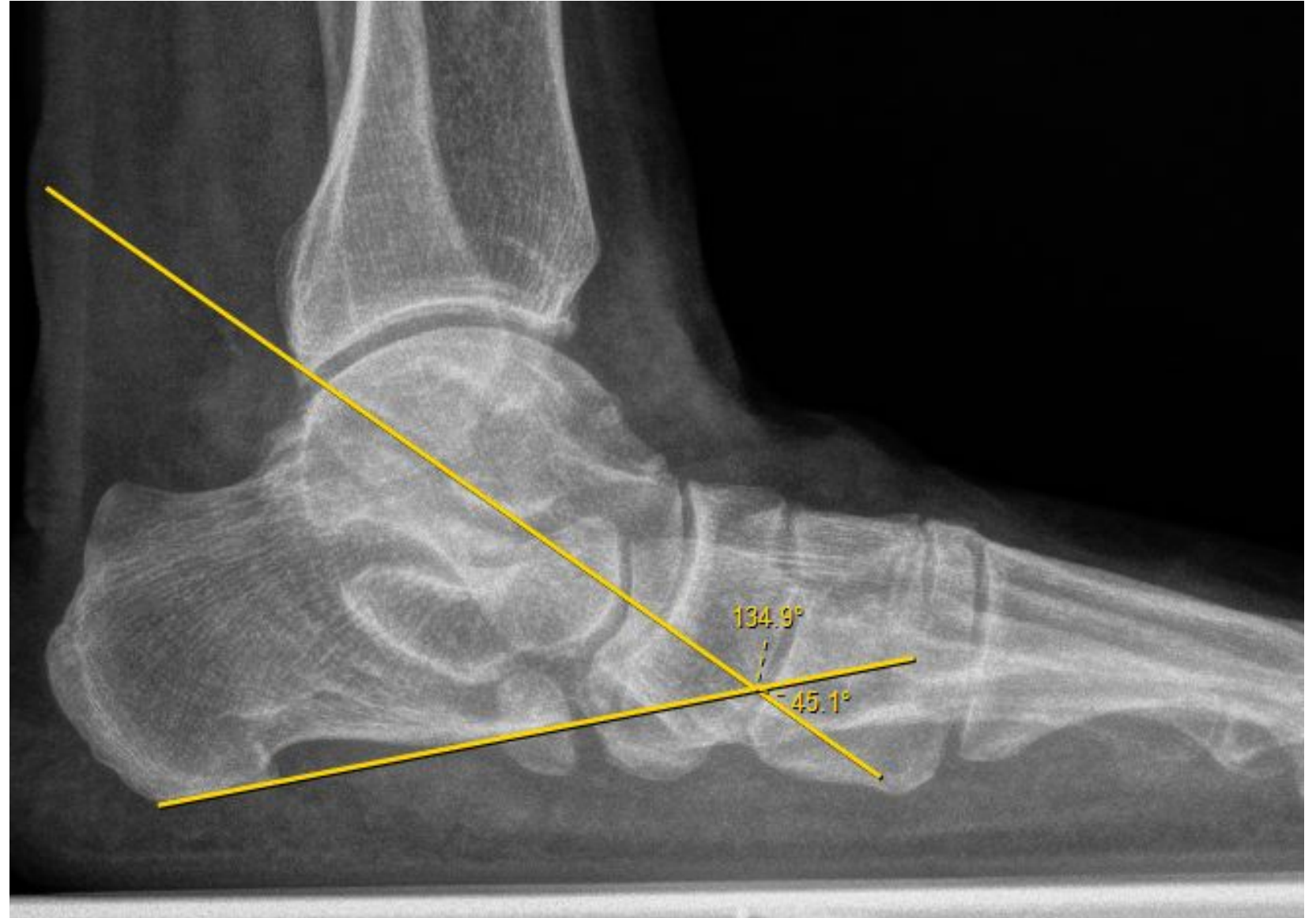
LATERAL TALOCALCANEAL ANGLE

(TO ASSESS HINDFOOT
VALGUS)



NORMAL – 25-40°

AFFECTED SIDE – 45.1°



CALCANEAL INCLINATION ANGLE

(REFLECTS THE HEIGHT OF FOOT
FRAMEWORK- TA tightness)



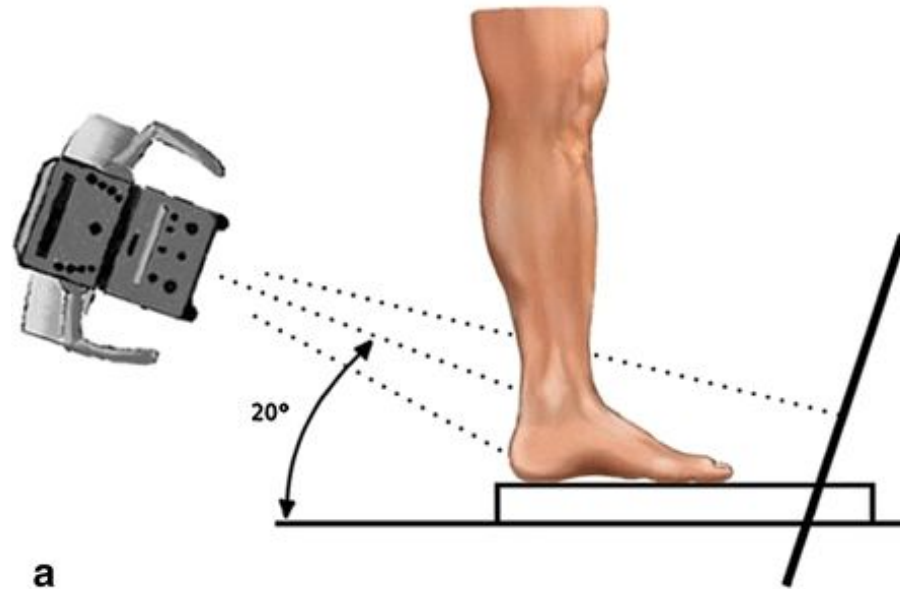
NORMAL – 10-25°

AFFECTED FOOT – 10°
(lower angle signifies TA tightness)

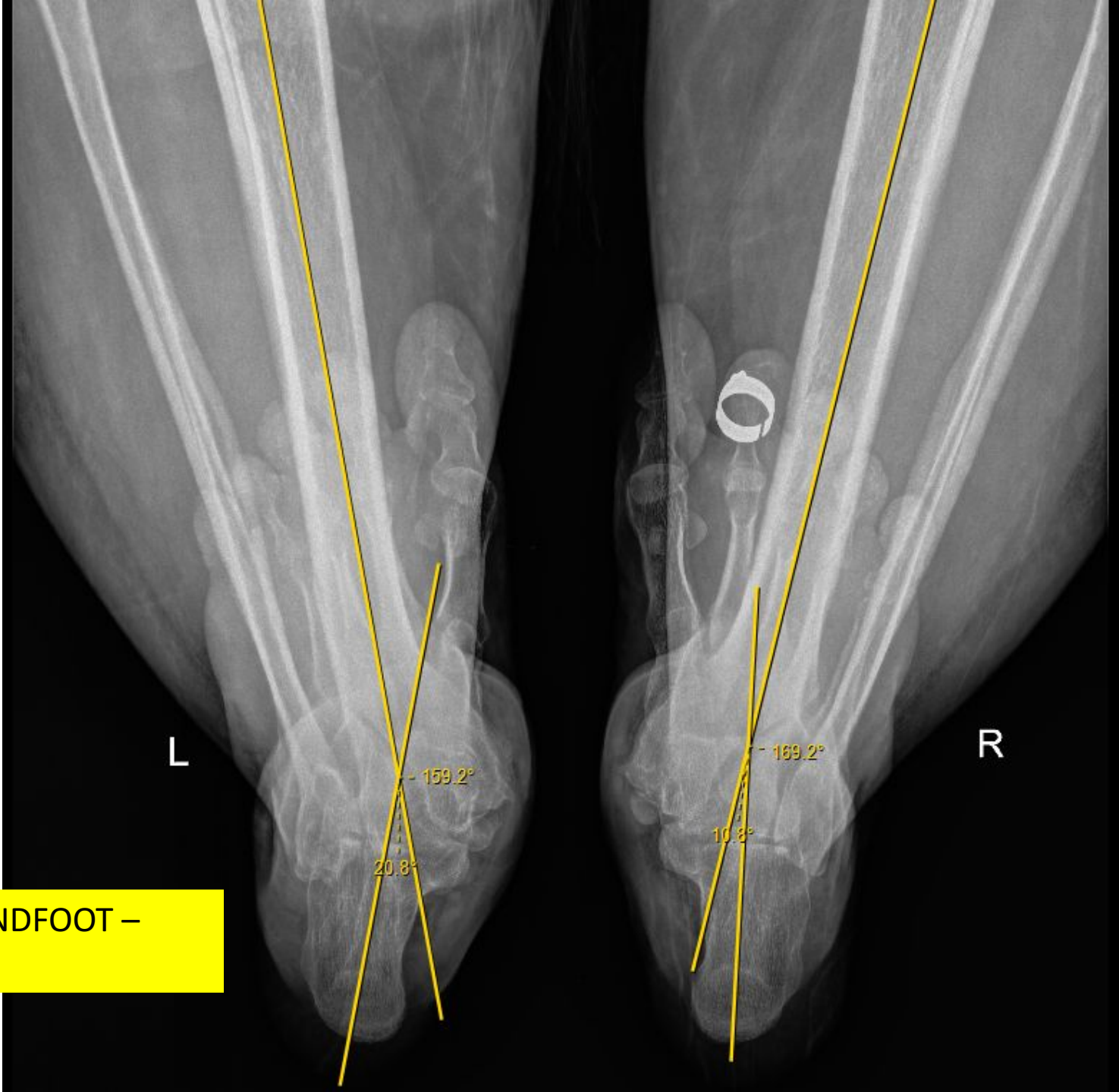


Saltzman`s view

NORMAL HINDFOOT 2° – 6°
OF VALGUS



AFFECTED HINDFOOT –
20.8° VALGUS



Plan -

- Surgeon: Dr Rajiv Shah
- Moderators : Dr Rahul Upadhyay, Dr Girish Motwani
- Case: Adult acquired flat foot deformity left foot
- Procedure: Flat foot deformity correction left foot.
(Gastro-soleus resection +/- Peroneus longus transfer + MCD-medial calcaneal displacement osteotomy +/- FDL transfer +/- Spring ligament bracing)

