

Knee area annotation guideline-1

- We developed this annotation guideline to reliably and precisely annotate the knee area.
- For the purpose of being reliable, we used anatomical landmarks of the knee joint which allows even annotators without any experience in medical field to annotate with high degree of reliability and precision.

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<https://opentja.github.io>

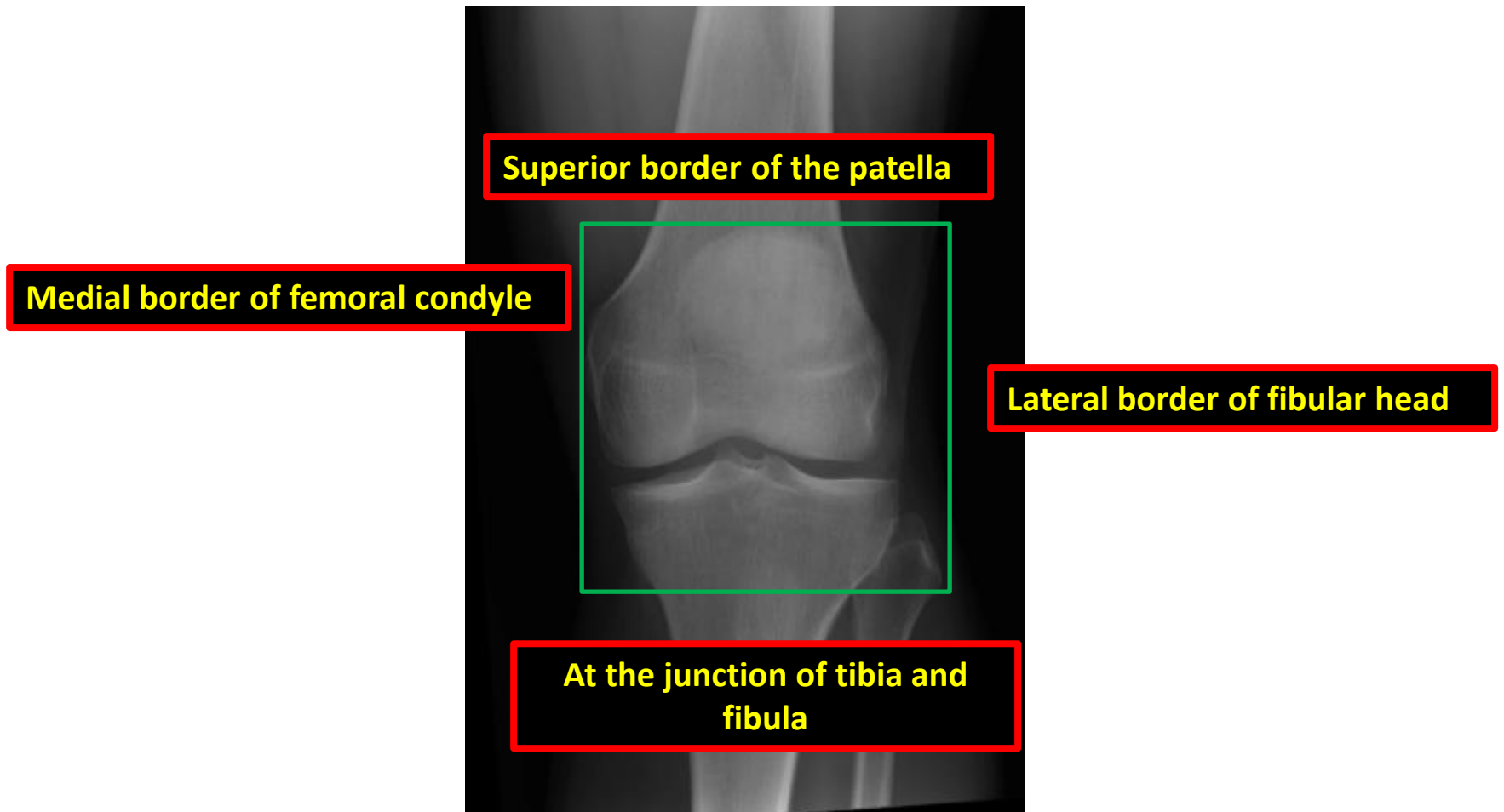
Knee area annotation guideline-2

- We have prepared separate annotation guideline for knees with and without a prosthesis as well as anteroposterior (AP) and Lateral knee views.
- In our annotation guideline for a knee without a prosthesis we have used patella bone, medial femoral condyle, lateral border of the fibular head as well as junction of the tibia and fibula bones.

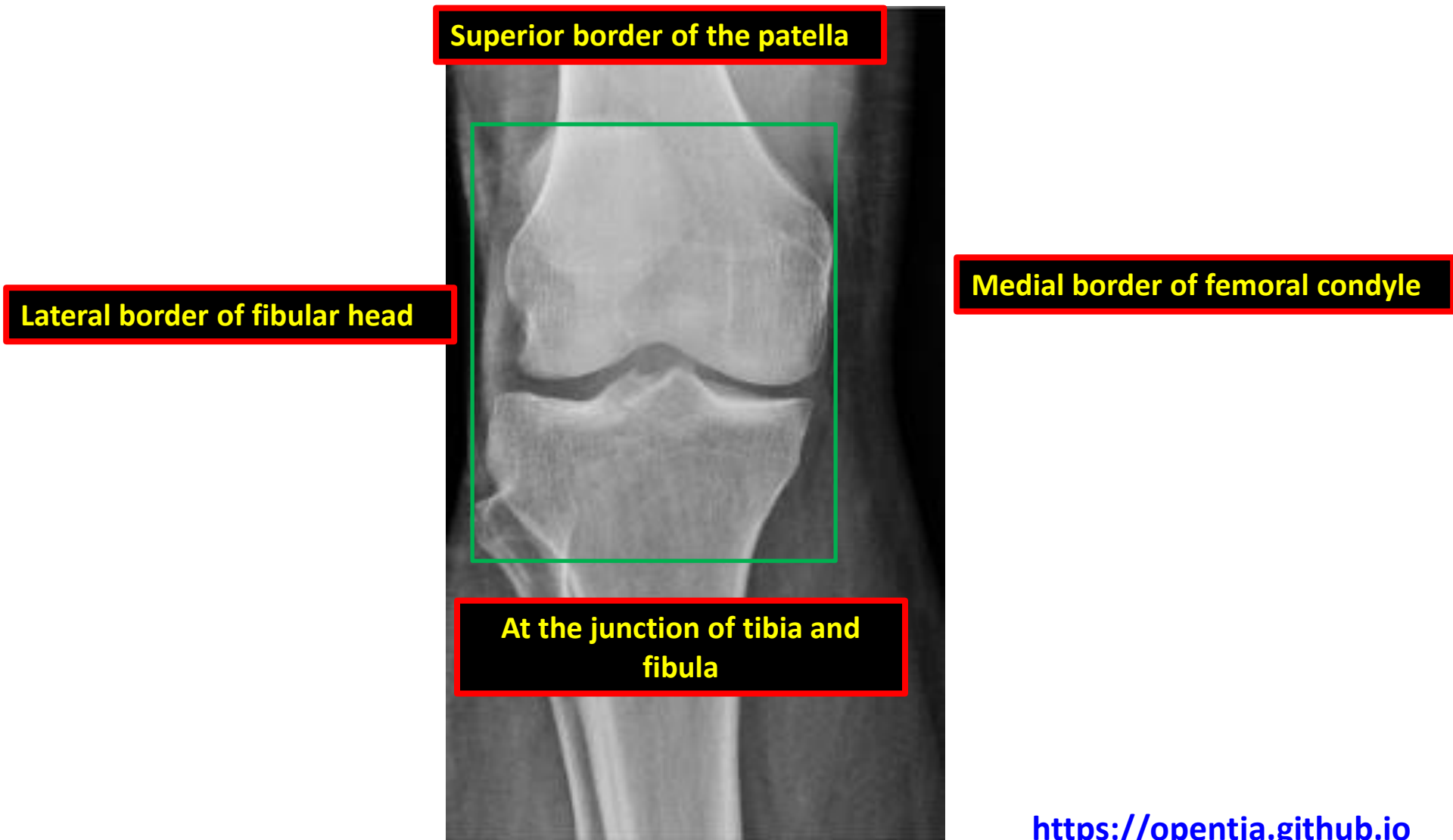
Knee area annotation guideline-3

- For a knee with a regular and long-stem prosthesis, we have used patella bone, medial femoral condyle, lateral border of the fibular head as well as the upper and lower border of the femoral and tibia components of the prosthesis.

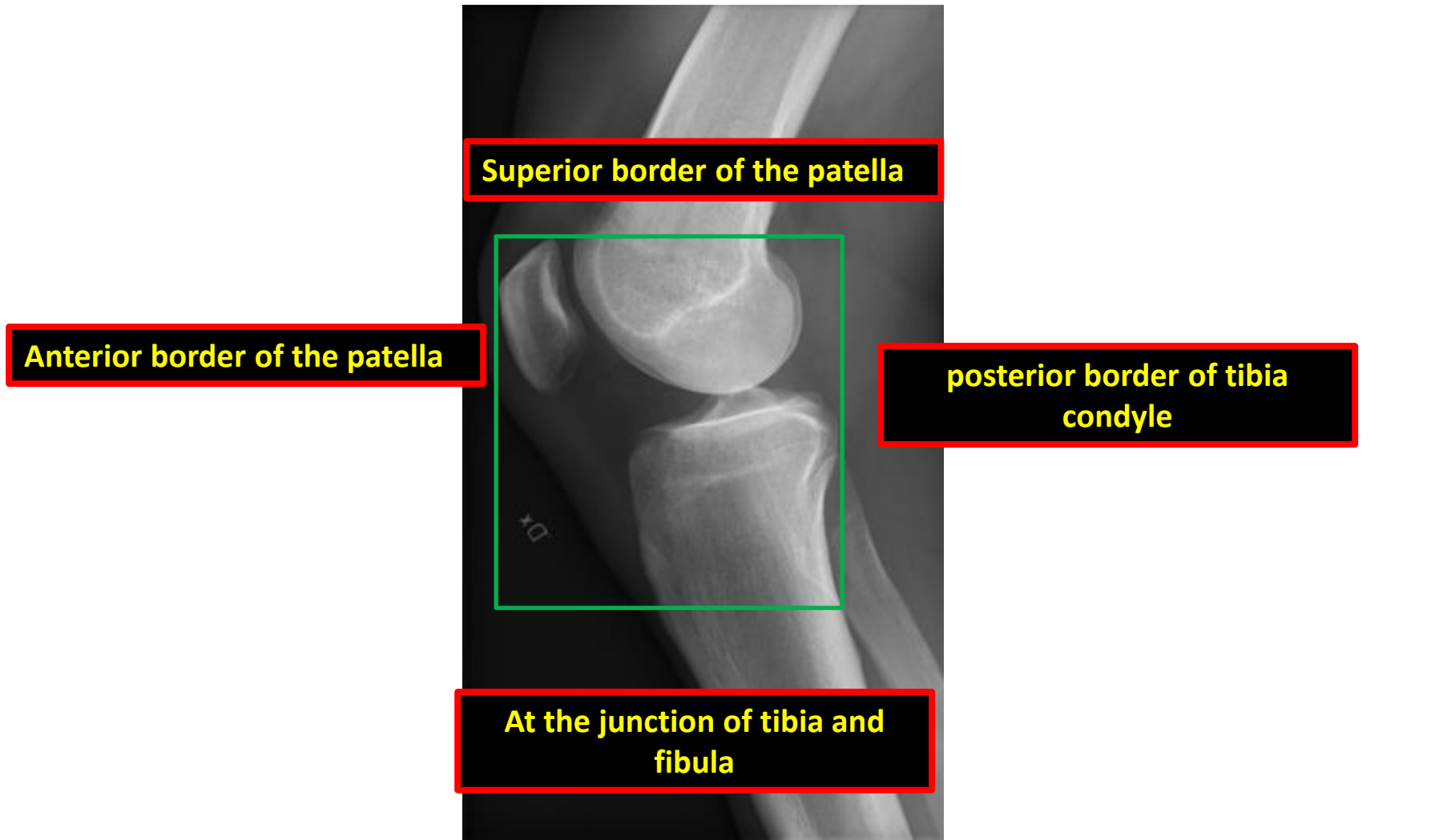
Knee AP



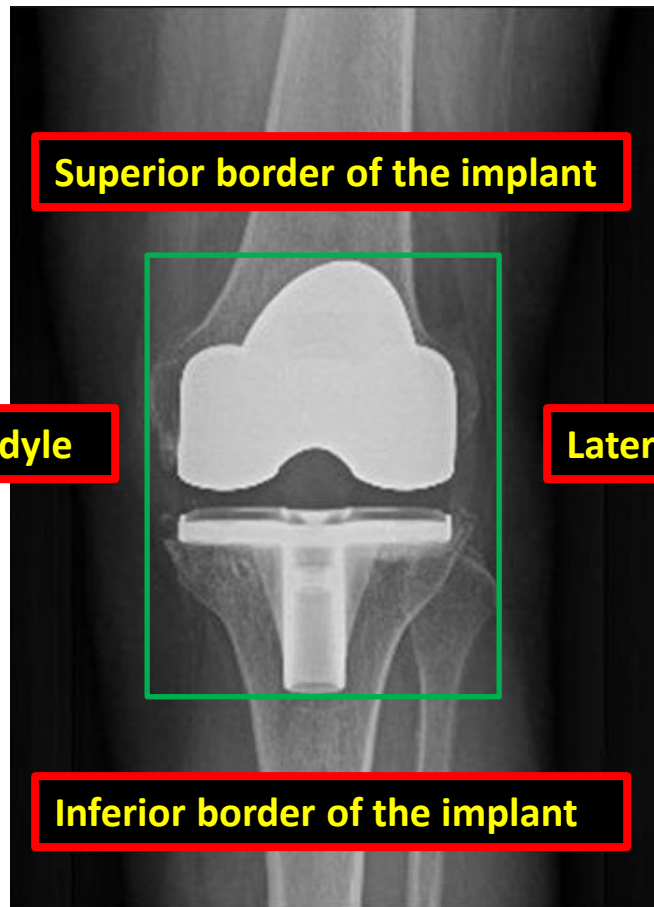
Knee AP (overlapped fibula)



Knee Lateral



TKA AP



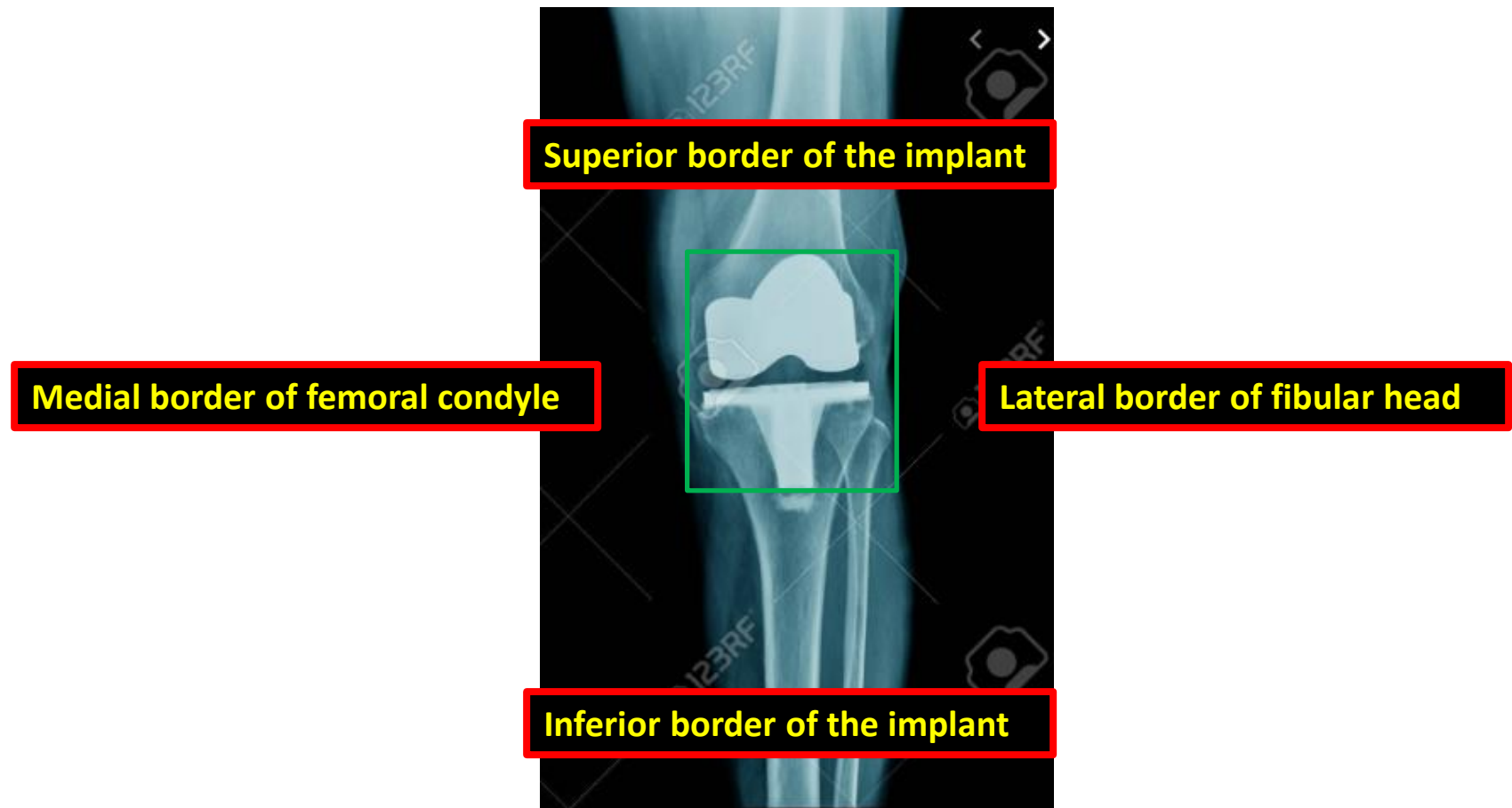
Superior border of the implant

Medial border of femoral condyle

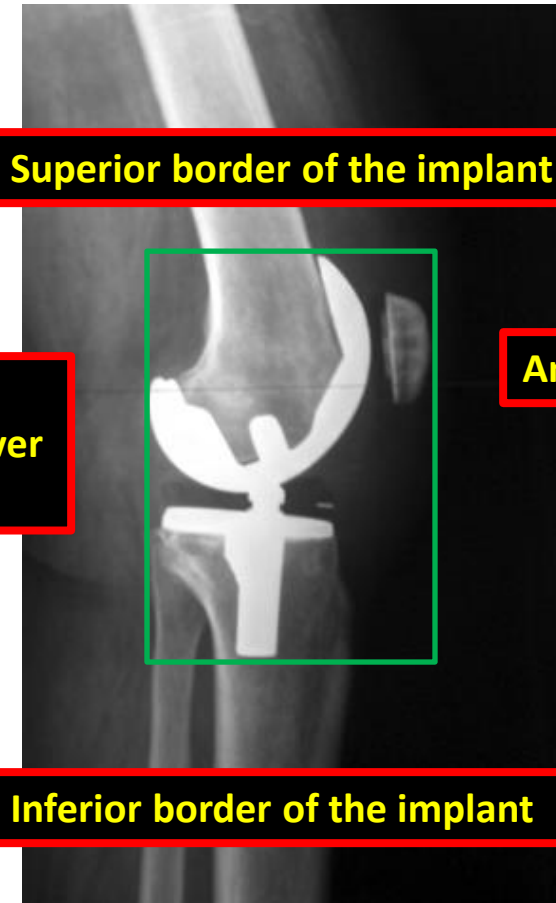
Lateral border of fibular head

Inferior border of the implant

TKA with bone cement AP



TKA Lateral



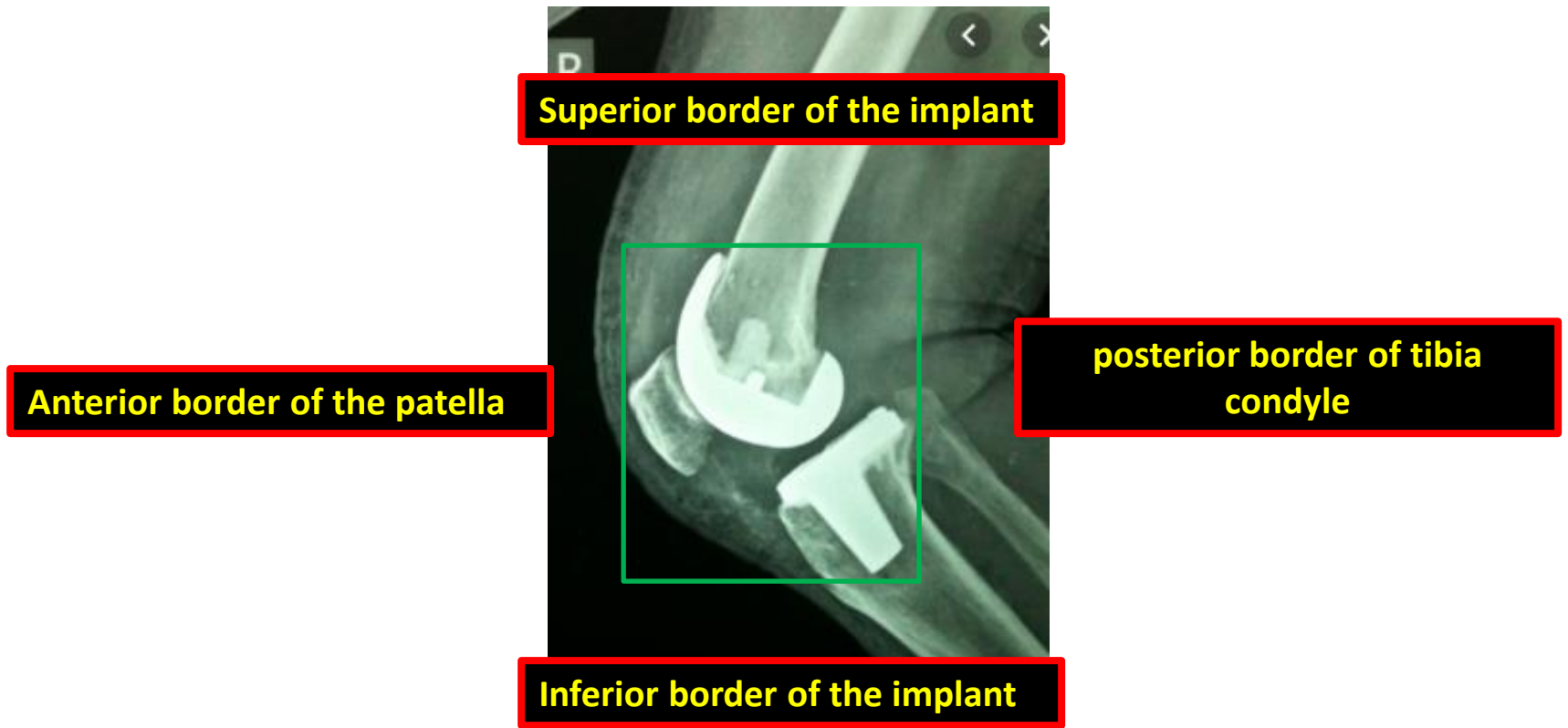
Superior border of the implant

**posterior border of tibia
condyle or implant, whichever
is more posterior**

Anterior border of the patella

Inferior border of the implant

TKA flexion Lateral



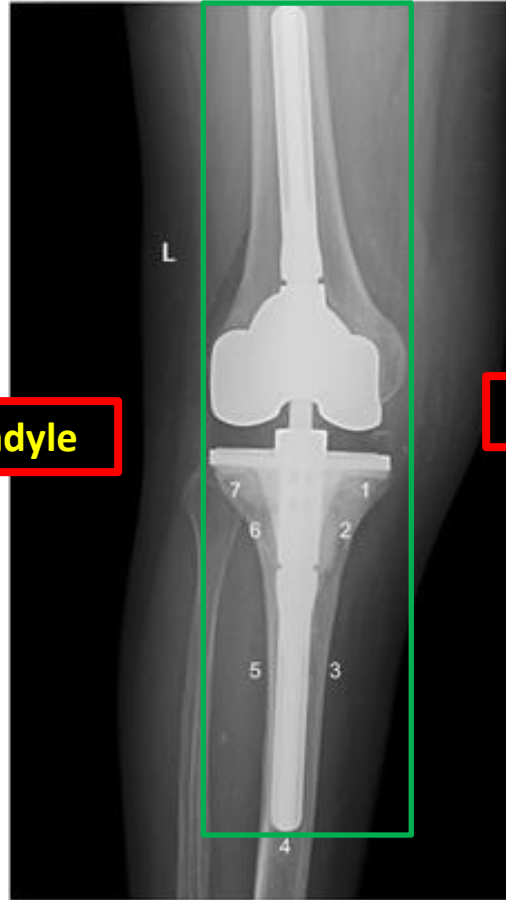
TKA long stem AP

Superior border of the implant

Lateral border of tibia condyle

Medial border of femoral condyle

Inferior border of the implant



TKA long stem Lateral

Superior border of the implant

Anterior border of the patella



**posterior border of tibia
condyle or implant, whichever
is more posterior**

Inferior border of the implant