

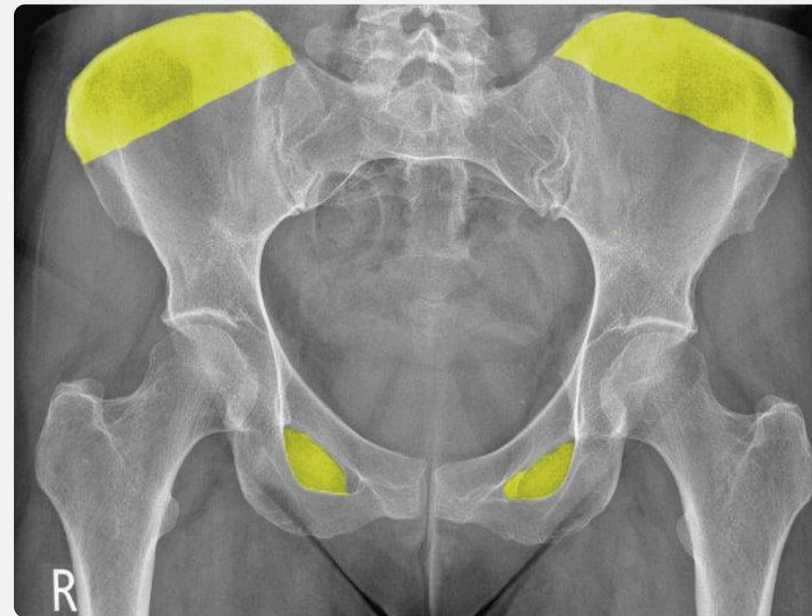


CalculOrther[®]

Novel Orthopedic X-ray Assessment Software

ATN
Softtech[®]

CalculOrther[®] is a software program that uses **artificial intelligence to assist physicians in orthopedic assessment and improve patient treatment.** While all measurements aim towards the future, CalculOrther currently operates on four distinct modules.

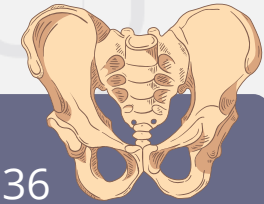




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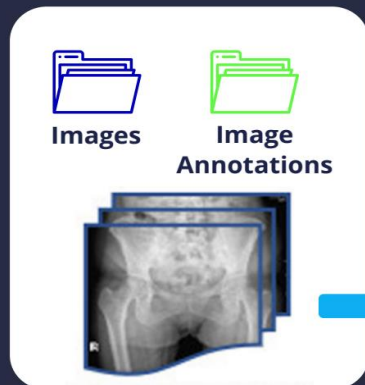
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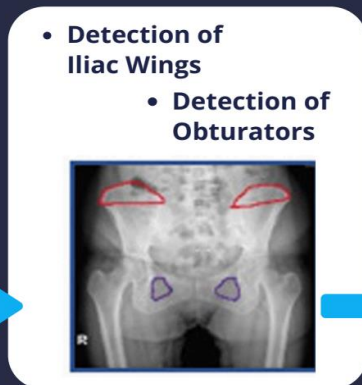
1. Pelvic X-ray Appropriateness (PelSiAn)

- The literature lacks a quantitative analysis for the appropriateness of pelvic X-rays. Only 36 out of every 100 pelvic X-rays are interpretable.
- The literature lacks a quantitative analysis for the appropriateness of pelvic X-rays.
- Orthopedic X-ray measurements necessitate a significant amount of time, which is especially difficult in congested outpatient clinics.

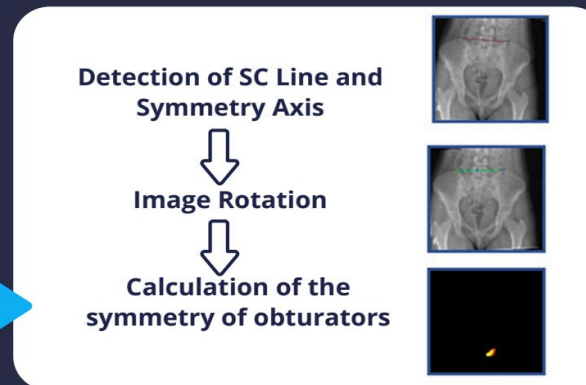
Stages of the PelSiAn System



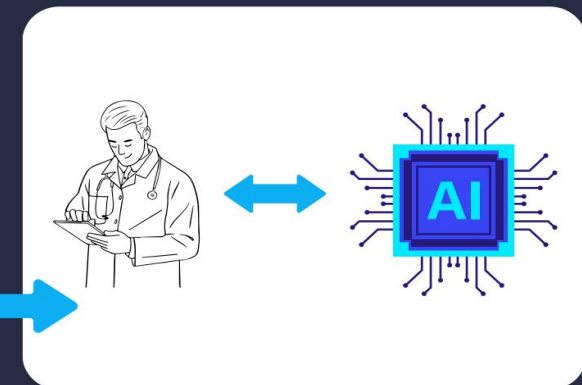
DATASET



**DETECTION OF
LANDMAKERS**



POSTPROCESSING



**PERFORMANCE
EVALUATION**



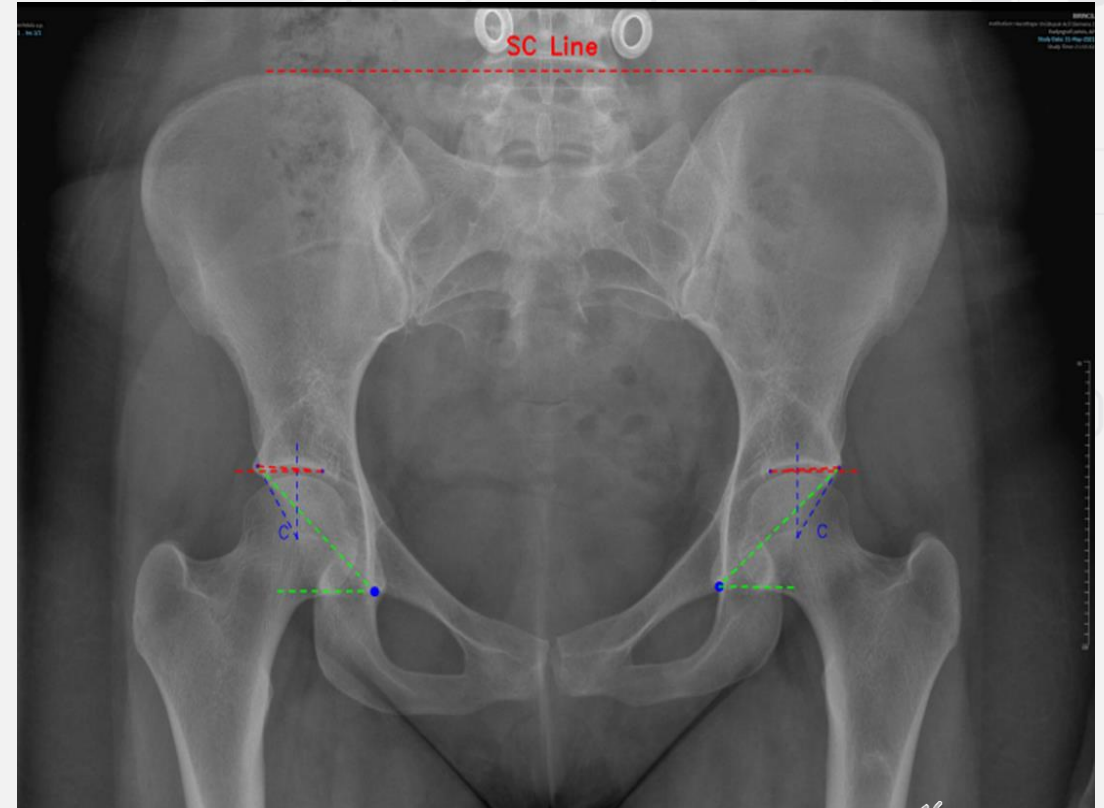
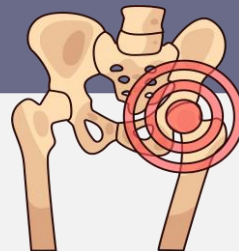
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2. Femoroacetabular Impingement

- Femoroacetabular impingement (FAI) syndrome is a significant source of hip pain.
- The FAI module of CalculOrther[®] automatically performs precise radiographic measurements, including Tönnis angle, Sharp's angle, and acetabular offset parameters.
- This automation ensures superior accuracy, consistency, and efficiency compared to manual assessment methods.





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3. Pes Planus

- Pes planus, or flatfoot, is a condition where the foot arch is abnormally low or absent, reducing the normal inner-foot curvature.
- Diagnostic errors and overlooked symptoms are common in practice, making early and accurate diagnosis crucial.
- The Pes Planus module in CalculOrther[®] facilitates timely diagnosis, enhancing treatment management and patient quality of life.





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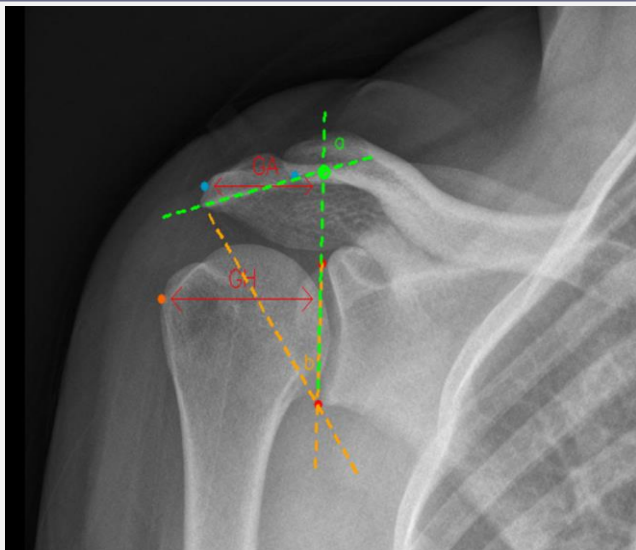
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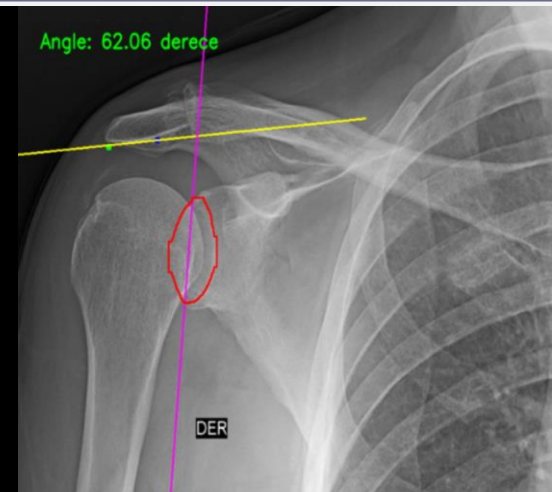
4. Shoulder Impingement

- The shoulder joint's wide range of motion makes it highly mobile but also susceptible to stress and pathologies, including rotator cuff tears and glenohumeral osteoarthritis. Anatomical factors play a key role in these disorders, and radiographic measurements—such as Critical Shoulder Angle (CSA), Lateral Acromion Angle (LAA), and Acromion Index (AI)—are essential for accurate assessment.
- The Shoulder Impingement Measurements module in CalculOrther[®] performs these measurements automatically and precisely, enabling faster diagnosis and supporting improved treatment planning and patient care.



Measurements

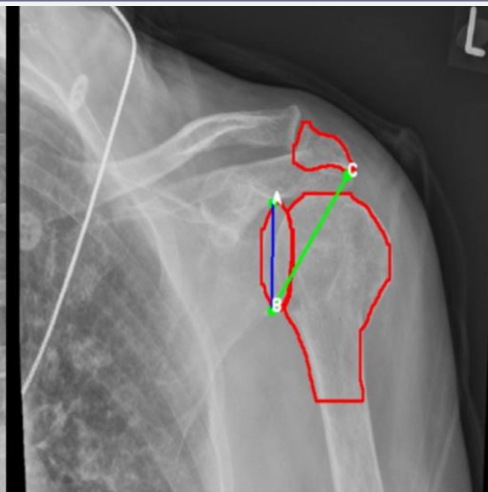
- 1) CSA: **36.71°**
- 2) LAA: **74.94°**
- 3) AI: **0.73**



Angle: 62.06 derece

DER

Lateral Acromial Angle



Critical Shoulder Angle





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