AIR_EC_Capabilities for Milvue Suite

System name

OTHER_MILVUE_MVS

AI Algorithm -

1   I. SmartXpert

AI Algorithm Description

The AI algorithm is capable of analyzing X-ray images for performing automatic 2D measurements of orthopedic static parameters and bone age assessment. SmartXpert is indicated for the following anatomical regions and views:
- Left Hand: frontal view
- Shoulder: glenoid view also known as a 'true AP' or a 'Grashey view'
- Spine: full spine frontal and lateral views
- Pelvis: frontal view, weight-bearing
- Hip: false-profile view, weight-bearing
- Leg: Face and lateral Long Leg Radiographs, weight-bearing
- Foot: frontal and lateral views, weight-bearing

DICOM IODs implemented

- Comprehensive 3D SR Storage IOD
- Secondary Capture Image IOD

Result primitives encoded

- 6.5.3.2 Qualitative Findings
- 6.5.3.3 Measurements
- 6.5.3.4 Locations
- 6.5.3.7 Tracking Identifiers

Additional Information

Original Image

Results

	Baseline	
Djian-Annonier angle [13]	145°	120° • 130°
Calcaneal inclination [14]	10°	20° • 30°
First metatarsal pitch [15]	10°	19° • 25°
Meary-Tomeno angle [14]	7°	0° • 4°

🟡 This measurement is outside the reference values

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AI Algorithm -

II. SmartUrgences

AI Algorithm Description

The AI algorithm is capable of analyzing X-ray images for detecting a variety of pathologies for Musculoskeletal (MSK) disorders and chest. For MSK, it identifies fractures in the following anatomical regions:
- Chest (including ribs),
- Clavicle,
- Shoulder,
- Arm, elbow, forearm, wrist, hand, fingers, hip, pelvis, femur, knee, leg (including tibia and fibula), ankle, foot

SmartUrgences is trained to detect the following anomalies:
1   Bone fracture
2   Joint dislocation
3   Elbow joint effusion
4   Pleural effusion
5   Pulmonary opacity
6   Pulmonary nodule
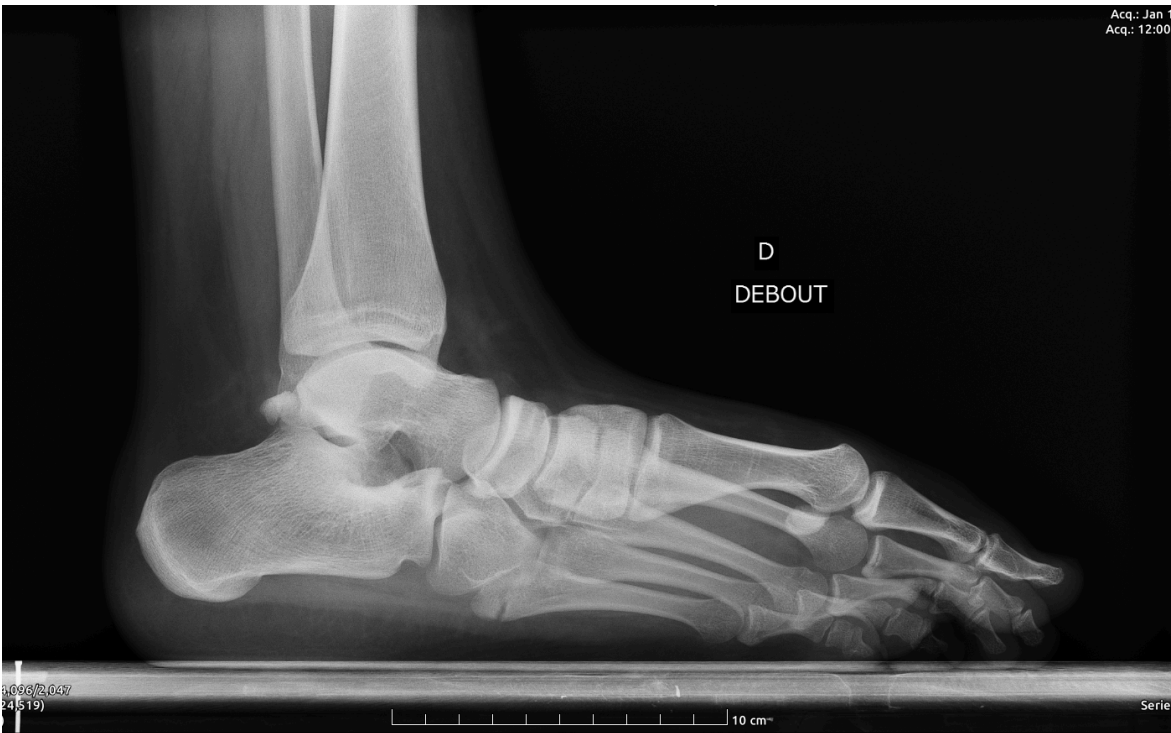7   Pneumothorax

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Additional Information

Original Image

Results