

CLINICAL EVIDENCE



BoneView

YOUR AI COMPANION FOR BONE X-RAYS



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SCIENTIFIC PAPERS

A Prospective Approach to Integration of AI Fracture Detection Software in Radiographs into Clinical Workflow

Auteurs : Jonas Oppenheimer, Sophia Lüken, Bernd Hamm, Stefan Markus Niehues

Journal : Life

Date : 2023

Lien : <https://www.mdpi.com/2075-1729/13/1/223>

Trauma

Artificial intelligence vs. radiologist: accuracy of wrist fracture detection on radiographs

Authors : Mathieu Cohen, Julien Puntonet, Julien Sanchez, Elliott Kierszbaum, Michel Crema, Philippe Soyer, Elisabeth Dion

Journal : European Radiology

Date : 2022

Link : <https://link.springer.com/article/10.1007/s00330-022-09349-3>

Trauma

Assessment of an artificial intelligence aid in the detection of appendicular skeletal fractures by senior and junior radiologists in children and young adults

Authors : Toan Nguyen, Richard Maarek, Anne-Laure Hermann, Amina Kammoun, Antoine Marchi, Mohamed R Khelifi-Touhami, Mégane Collin, Aliénor Jaillard, Andrew J Kompel, Daichi Hayashi, Ali Guermazi, Hubert Ducou Le Pointe

Journal : Pediatric Radiology

Date : 2022

Link : <https://link.springer.com/article/10.1007/s00247-022-05496-3>

Trauma

SCIENTIFIC PAPERS

Assessment of performances of a deep learning algorithm for the detection of limbs and pelvic fractures, dislocations, focal bone lesions, and elbow effusions on trauma X-rays

Authors : Nor-Eddine Regnard, Boubekour Lanseur, Jeanne Ventre, Alexis Ducarouge, Lauryane Clovis, Louis Lassalle, Elise Lacave, Albane Grandjean, Aurélien Lambert, Benjamin Dallaudière, Antoine Feydy

Journal : European Journal of Radiology

Date : 2022

Link : <https://pubmed.ncbi.nlm.nih.gov/35921795/>

Trauma

Added value of an artificial intelligence solution for fracture detection in the radiologist's daily trauma emergencies workflow

Authors : Lisa Canoni-Meynet, Pierre Verdot, Alexis Danner, Paul Calame, Sébastien Aubry

Journal : Diagnostic and Interventional Imaging

Date : 2022

Link : <https://pubmed.ncbi.nlm.nih.gov/35780054/>

Trauma

Automated detection of acute appendicular skeletal fractures in pediatric patients using deep learning

Authors : Daichi Hayashi, Andrew J. Kompel, Jeanne Ventre, Alexis Ducarouge, Toan Nguyen, Nor-Eddine Regnard, Ali Guermazi

Journal : Skeletal Radiology

Date : 2022

Link : <https://pubmed.ncbi.nlm.nih.gov/35522332/>

Trauma

SCIENTIFIC PAPERS

Improving Radiographic Fracture Recognition Performance and Efficiency Using Artificial Intelligence

Authors : Ali Guermazi, Chadi Tannoury, Andrew J Kompel, Akira M Murakami, Alexis Ducarouge, André Gillibert, Xinning Li, Antoine Tournier, Youmna Lahoud, Mohamed Jarraya, Elise Lacave, Hamza Rahimi, Aloïs Pourchot, Robert L Parisien, Alexander C Merritt, Douglas Comeau, Nor-Eddine Regnard, Daichi Hayashi

Journal : Radiology

Date : 2021

Link : <https://pubmed.ncbi.nlm.nih.gov/34931859/>

Trauma

Assessment of an AI Aid in Detection of Adult Appendicular Skeletal Fractures by Emergency Physicians and Radiologists: A Multicenter Cross-sectional Diagnostic Study

Authors : Loïc Duron , Alexis Ducarouge, André Gillibert, Julia Lainé, Christian Allouche, Nicolas Chernel, Zekun Zhang, Nicolas Nitche, Elise Lacave, Aloïs Pourchot, Adrien Felter, Louis Lassalle, Nor-Eddine Regnard, Antoine Feydy

Journal : Radiology

Date : 2021

Link : <https://pubmed.ncbi.nlm.nih.gov/33944629/>

Trauma

PODIUM PRESENTATION AT CONGRESSES

Automated full-leg measurements using an artificial intelligence-based software

Authors : Louis Lassalle, Nor-eddine Regnard, Jeanne Ventre, Vincent Marty, Lauryane Clovis, Zekun Zhang, Ali Guermazi, Jean-Denis Laredo

Congress : ECR 2023

Measurements

Automated hip measurements using an artificial intelligence-based software

Authors : Louis Lassalle, Nor-eddine Regnard, Alexia Tran, Jeanne Ventre, Vincent Marty, Lauryane Clovis, Zekun Zhang, Ali Guermazi, Jean-Denis Laredo

Congress : ECR 2023

Measurements

Performance of AI in Fracture Detection in Lumbar Spine Radiographs: A Comparison to Genant Classification in per Vertebrae Analysis

Author : Jonas Oppenheimer

Congress : RSNA 2022

Trauma

AI in Peripheral Skeleton Fracture: Significant Reduction of the Second Specialized Opinion Need From a Monocentric on Going Study

Author : Guillaume Herpe

Congress : RSNA 2022

Trauma

PODIUM PRESENTATION AT CONGRESSES

A.I. improves radiologists' performance for wrist fracture detection in radiography, compared to CT-based ground truth

Authors : T. Jacques, N. Cardot, J. Ventre, X. Demondion, A. Cotten

Congress : JFR 2022

Trauma

Commercially-available artificial intelligence algorithm improves radiologists' performances for fracture detection, on a challenging dataset of wrist and hand radiographs, compared to a CT-based ground truth

Authors : Thibaut Jacques, Nicolas Cardot, Jeanne Ventre, Xavier Demondion, Anne Cotten

Congress : ISS

Trauma

Assessment of an AI aid in detection of pediatric appendicular skeletal fractures by senior and junior radiologists

Authors : T. Nguyen, R. Maarek, A.-L. Hermann, A. Kamoun, A. Marchi, R. Khelifi, M. Collin, A. Jaillard, H. Ducou Le Pointe

Congress : European Society of Pediatric Radiology

Trauma

Deep learning algorithm to predict Greulich and Pyle bone age

Authors : Toan Nguyen ; Aloïs Pourchot ; Vincent Marty ; Jeanne Ventre ; Nor-Eddine Regnard

Congress : European Society of Pediatric Radiology

Bone age

PODIUM PRESENTATION AT CONGRESSES

Artificial Intelligence (AI) support for pelvic fracture detection on plain radiographs: a preliminary study of AI integration in the clinical workflow

Congress : ECR 2022

Trauma

Assessment of an AI aid in detection of pediatric appendicular skeletal fractures by senior and junior radiologists.

Authors : Toan Nguyen, Richard Maarek, Anne-Laure Hermann, Amina Kammoun, Antoine Marchi, Redha Khelifi, Mégane Collin, Aliénor Jaillard, Hubert Ducou Le Pointe

Congress : ECR 2022

Trauma

Performances of a deep learning algorithm for the detection of fracture, dislocation, elbow joint effusion, focal bone lesions on trauma X-rays

Authors : Nor-Eddine Regnard, Boubekour Lanseur, Louis Lassalle, Aurélien Lambert, Benjamin Dallaudière, Antoine Feydy

Congress : ECR 2022

Trauma

Evaluation of the medical impact of artificial intelligence for limb and pelvic bone fracture detection

Authors : Nor-Eddine Regnard, Boubekour Lanseur, Louis Lassalle, Antoine Feydy, Nicolas Theumann

Congress : RSNA 2021

Trauma

PODIUM PRESENTATION AT CONGRESSES

Improving Radiographic Fracture Detection and Reducing Reading Time Using Artificial Intelligence: A Multi-Center Study with Radiologists and Non-Radiologists in The United States

Authors : Daichi Hayashi, Andrew J. Kompel, Akira Murakami, Mohamed Jarraya, Nor-Eddine Regnard, Ali Guermazi

Congress : RSNA 2021

Trauma

POSTER PRESENTATION AT CONGRESSES

Automated foot measurements using an artificial intelligence-based software

Auteurs : Louis Lassalle, Nor-eddine Regnard, Jeanne Ventre, Vincent Marty, Lauryane Clovis, Zekun Zhang, Ali Guermazi, Jean-Denis Laredo

Congrès : ECR 2023

Measurements

Deep learning algorithm to predict Greulich and Pyle bone age

Auteurs : Toan Nguyen, Anne-Laure Hermann, Aloïs Pourchot, Vincent Marty, Jeanne Ventre, Nor-Eddine Regnard, Ali Guermazi

Congrès : ECR 2023

Bone age

Clinical application of Artificial Intelligence for Fracture Detection: Assessment of the Impact on the workflow of Radiology Technicians and Emergency Physicians.

Auteurs : Erik Ranschaert

Congrès : Eusomii 2022

Trauma

Deep learning algorithm to predict Greulich and Pyle bone age

Auteurs : Toan Nguyen, Anne-Laure Hermann, Aloïs Pourchot, Vincent Marty, Jeanne Ventre, Nor-Eddine Regnard

Congrès : Eusomii 2022

Bone age

POSTER PRESENTATION AT CONGRESSES

Performances of a deep learning algorithm for the detection of fracture, dislocation, elbow joint effusion, focal bone lesions on trauma X-rays

Auteurs : Nor-Eddine Regnard, Boubekeur Lanseur, Louis Lassalle, Aurélien Lambert, Benjamin Dallaudière, Antoine Feydy

Congrès : EuSoMII 2021

Trauma