



References & Citations

Musculoskeletal Radiograph Classification · v1.0

Primary Dataset

Dataset	MURA v1.1 — Musculoskeletal Radiographs
Source	Stanford ML Group — Kaggle
Link	https://www.kaggle.com/datasets/cjinny/mura-v11
Classes	14 classes — 7 body regions × Normal/Abnormal
Size	~40,000 X-ray images (train + validation)
Task	Multi-class classification — body part + abnormality detection

References [1–20]

[1] Fracture Classification Systems

Marsh, J. L. et al. (2007).

Fracture and dislocation classification compendium - 2007. Journal of Orthopaedic Trauma, 21(10 Suppl), S1-133.

■ <https://pubmed.ncbi.nlm.nih.gov/18277234/>

[2] Bone Anatomy and Fracture Patterns

Standring, S. (2020).

Gray's Anatomy: The Anatomical Basis of Clinical Practice. 42nd Edition, Elsevier.

■ <https://www.us.elsevierhealth.com/grays-anatomy-9780702077050.html>

[3] Fracture Healing and Complications

Einhorn, T. A., & Gerstenfeld, L. C. (2015).

Fracture healing: mechanisms and interventions. Nature Reviews Rheumatology, 11(1), 45-54.

■ <https://pubmed.ncbi.nlm.nih.gov/25266456/>

[4] Hip Fractures - Clinical Guide

Parker, M., & Johansen, A. (2006).
Hip fracture. BMJ, 333(7557), 27-30.

■ <https://pubmed.ncbi.nlm.nih.gov/16825230/>

[5] Wrist and Hand Fractures

Chung, K. C., & Spilson, S. V. (2001).
The frequency and epidemiology of hand and forearm fractures in the United States. The Journal of Hand Surgery, 26(5), 908-915.

■ <https://pubmed.ncbi.nlm.nih.gov/11561245/>

[6] Pelvic Fractures and Management

Young, J. W., & Burgess, A. R. (1987).
Radiologic management of pelvic ring fractures. Urban & Schwarzenberg.
■ <https://pubmed.ncbi.nlm.nih.gov/3306445/>

[7] Pediatric Bone Injuries

Landin, L. A. (1983).
Fracture patterns in children. Acta Orthopaedica Scandinavica, Supplementum 202, 1-109.
■ <https://pubmed.ncbi.nlm.nih.gov/6574687/>

[8] Osteoporosis and Fragility Fractures

Klotzbuecher, C. M. et al. (2000).
Patients with prior fractures have an increased risk of future fractures. Journal of Bone and Mineral Research, 15(4), 721-739.
■ <https://pubmed.ncbi.nlm.nih.gov/10780864/>

[9] Compartment Syndrome in Fractures

Shadgan, B. et al. (2010).
Diagnostic techniques in acute compartment syndrome of the leg. Journal of Orthopaedic Trauma, 24(1), 50-57.
■ <https://pubmed.ncbi.nlm.nih.gov/20035181/>

[10] Non-Union and Delayed Union of Fractures

Calori, G. M. et al. (2011).
Treatment of long bone non-unions with polytherapy. Injury, 42, S65-S69.
■ <https://pubmed.ncbi.nlm.nih.gov/21752375/>

[11] Open Fractures and Infection Risk

Gustilo, R. B., & Anderson, J. T. (1976).
Prevention of infection in the treatment of 1,025 open fractures of long bones. The Journal of Bone and Joint Surgery, 58(4), 453-458.
■ <https://pubmed.ncbi.nlm.nih.gov/773941/>

[12] Spinal Fractures

Vaccaro, A. R. et al. (2013).

AOSpine thoracolumbar spine injury classification system. Spine, 38(23), 2028-2037.

■ <https://pubmed.ncbi.nlm.nih.gov/23970107/>

[13] Fat Embolism Syndrome

Mellor, A., & Soni, N. (2001).

Fat embolism. Anaesthesia, 56(2), 145-154.

■ <https://pubmed.ncbi.nlm.nih.gov/11167474/>

[14] Bone Tumors vs Fractures Differential Diagnosis

Murphy, M. D. et al. (1997).

Imaging of primary malignant musculoskeletal tumors. RadioGraphics, 17(6), 1407-1434.

■ <https://pubmed.ncbi.nlm.nih.gov/9397454/>

[15] AO Foundation - Fracture and Dislocation Classification

Müller, M. E. et al. (1990).

The Comprehensive Classification of Fractures of Long Bones. Springer-Verlag.

■ <https://www.aofoundation.org/>

[16] WHO - Fracture Risk Assessment (FRAX)

Kanis, J. A. et al. (2008).

FRAX and the assessment of fracture probability in men and women. Osteoporosis International, 19(4), 385-397.

■ <https://pubmed.ncbi.nlm.nih.gov/18292978/>

[17] Pathological Fractures

Sarahrudi, K. et al. (2006).

Comparison of tibial bone defect repair induced by different platelet-rich plasma formulations. American Journal of Sports Medicine, 34(9), 1506-1513.

■ <https://pubmed.ncbi.nlm.nih.gov/16685097/>

[18] Stress Fractures

Nattiv, A. et al. (2000).

The female athlete triad. Medicine & Science in Sports & Exercise, 32(2), 405-416.

■ <https://pubmed.ncbi.nlm.nih.gov/10694126/>

[19] Avascular Necrosis Post-Fracture

Mont, M. A., & Hungerford, D. S. (1995).

Non-traumatic avascular necrosis of the femoral head. The Journal of Bone and Joint Surgery, 77(3), 459-474.

■ <https://pubmed.ncbi.nlm.nih.gov/7890797/>

[20] MURA Dataset — Primary Dataset Used

Rajpurkar, P. et al. — Stanford ML Group (2018).

MURA: Large Dataset for Abnormality Detection in Musculoskeletal Radiographs. MURA v1.1 on Kaggle.

■ <https://www.kaggle.com/datasets/cjinny/mura-v11>

■■ All references are for research and educational purposes only — not clinical guidance.