YASHAWANT KUMAR YADAV

(MRI and CT Radiographer)

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Professional Summary:

Dynamic and dedicated MRI and CT Radiographer with over three years of experience in advance imaging techniques, patients centered care, and research innovation at leading tertiary care and specialized imaging centers in Nepal. Proficient in operating state of the art 3T and 256 slice Ct systems, with expertise in complex scans including cardiac, fetal, and oncology imaging. Demonstrated leadership in optimizing scan protocols, enhancing workflow efficiency, and mentoring junior staff. Passionate about advancing radiology through research, with publication and presentation at international conferences like AACRT 2025. Committed to patient safety, radiation protection and dose optimization, and integrating solutions like PACS for seamless radiology operation.

Area of Expertise

- MRI/CT Imaging (3T MRI, 256 Slice CT, Bi plane Cath lab)
- Advance MRI Technique (Cardiac, Fetal, Defecography, Lymphangiography Etc.)
- Radiation Dose Optimization & ALARA Principles
- PACS/RIS & DICOM Proficiency
- Neuroimaging & Oncology imaging
- Research & Publication (MRI, CT, DRL, Liver Iron Quantification)
- Patient care & Safety Protocols
- Workflow Optimization and Team Leadership
- Contrast Administration and Protocol Development

Professional Experience

Lead MRI and CT radiographer

Jeebnata Advance Kathmandu Imaging Center,Kathmandu, Nepal

July 2022 – Present Days

- Lead a team of radiographer in operating Nepal first 3T MRI system and 128 slices CT scanner, performing complex scans including Cardiac, fetal, defecography, lymphangiography and whole-body oncology imaging like procedures along with routine protocols.

- Optimize MRI and CT scan protocols using various techniques including Parallel imaging technique in MRI and Advance Iterative Reconstruction technique in CT scan which reduces the scan time significantly (approx. 20-25%) while maintaining diagnostic quality.
- Enhance workflow efficiency, improving patient throughput by 25% through streamlined scheduling and equipment maintenance.
- Collaborate with Radiologist to tailor the imaging protocol for MSK, Neurological imaging and in oncology imaging, boosting the diagnostic confidence.

Research Contributions

Ongoing Projects (2025):

- Association of periventricular white matter hyperintensities with vascular impairment in cerebrovascular disease using MRI
- Establishment of National Diagnostic Reference Levels (DRLs) for CT Scans of Different Organs in Nepal.
- Association of periventricular white matter hyperintensities with vascular impairment in cerebrovascular disease using MRI.
- Assessment of MRI Safety Practices in Nepal: A Nationwide Survey
- Overview of Radiography Bachelor and Master's Programs in Nepal: Evaluating educational frameworks for curriculum enhancement.

Published Abstract (2021): *Assessment of Knowledge, Attitude, and Practice about COVID-19 among Medical Staff of NAMS* – Published in a peer-reviewed journal.

Conference Presentation (2025): Presented e-poster abstract on *Correlation of Vertebral Marrow Fat Fraction in MRI with DIXON and BMD DEXA Scan* at AACRT Thailand 2025, highlighting osteoporosis diagnostics.

Education

- Bachelor of Science in Medical Imaging Technology (B.Sc. MIT)
  National Academy of Medical Sciences, Bir Hospital, Kathmandu, Nepal

- Master of Science in Medical Imaging Technology (M.Sc. MIT)
  National Academy of Medical Sciences, Bir Hospital, Kathmandu, Nepal