Description of Past Scientific Projects Completed and Research Work

I had previously completed my thesis work under the guidance of Prof. Ashu Seith Bhalla in Department of Radiology at AIIMS New Delhi on "**Evaluation of neck masses using Diffusion weighted MRI and Ultrasound Elastography"** which was completed in 2013 and subsequently presented my work as scientific exhibit at annual conference of IRIA (Indian Radiological and Imaging Association) in 2014 in Agra as well as at 100th Scientific Assembly and Annual Meeting of Radiological Society of North America, Chicago 2014. I also published **two original research** and **one review** in both national and international pubmed indexed journal based on my thesis work.

I also worked as Research Officer in the **ICMR funded project titled "Pilot Implementation of Collaborative Digital Diagnosis System using Medical Imaging**" **under Prof. Arun Kumar Gupta (Project Investigator**) in Department of Radio-diagnosis **at AIIMS, New Delhi** from 6th Apr 2017 to 30th Jun 2017 and actively contributed to collection and compilation of data.

Subsequently, I published a two-part review on "**Dilemma of diagnosing thoracic sarcoidosis in tuberculosis endemic regions: An imaging-based approach" along with Prof. Ashu Seith Bhalla** addressing a pertinent diagnostic dilemma of India. I also published our recommendation on **"Imaging Protocols for CT Chest"** which has received **more than 50 citations.** My previous work on **"Biomass Fuel Exposure and Lungs: Unraveling the Imaging Conundrum**" focuses on a very relevant but less-talked about issue that is rampant in our region. Based on similar concept, my present proposed work aims to investigate the imaging features of symptomatic jute mill workers on HRCT and correlate them with PFT changes**.** I have multiple publications in peer-review journals and contributed several book chapters focussing on topics of thoracic radiology including the recent **"Comprehensive Textbook of Clinical Radiology. Vol I Principles of Clinical Radiology, Multisystem Diseases and Head and Neck. 1st Ed. India by Elsevier- Saunders, Mosby, Churchill; 2023. 3.7.2 on "Imaging of Pediatric Airway".**