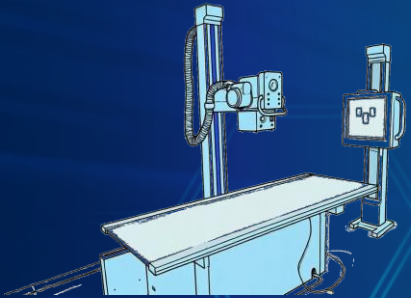
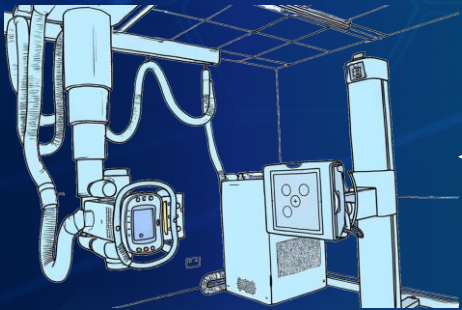


# BS-LDM: Effective Bone Suppression in High-Resolution Chest X-Ray Images with Conditional Latent Diffusion Models

Digital Radiography (Low-Dose)



Dual-Energy Subtraction (High-Dose)



Clinical Examination

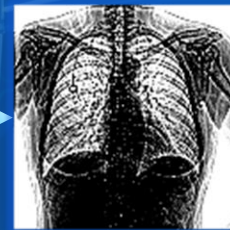
Acquisition

Chest X-Ray

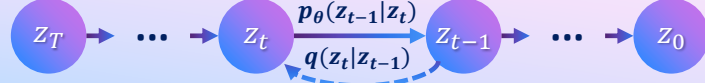


CNN  
Encoder

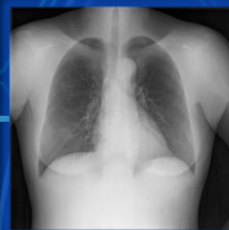
Latent Chest X-Ray



Virtual  
Imaging



Soft Tissue



CNN  
Decoder

Latent Soft Tissue



Alternative

Bone Suppression with BS-LDM

Radiologist Diagnosis



Application

Computer-Aided Diagnosis



Downstream Task