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Medical imaging has become an indispensable tool in modern healthcare, revolutionizing the way clinicians diagnose, treat, and monitor diseases. This abstract provides an overview of the pivotal role that medical imaging plays in contemporary healthcare settings. Beginning with a brief historical background, it highlights the evolution of medical imaging techniques from basic X-rays to advanced modalities such as computed tomography (CT), magnetic resonance imaging (MRI), and positron emission tomography (PET). The abstract then delves into the wide-ranging applications of medical imaging in disease diagnosis and treatment, emphasizing its ability to provide detailed

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for the assessment of metabolic activity, tissue perfusion, and neuron connectivity, providing invaluable insights into disease pathogenesi and progression β]

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