

CT Scan

Patel PR ¹, De Jesus O ²

Author information •

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Abstract

A computed tomography (CT) scan, commonly referred to as a CT, is a radiological imaging study. The machine was developed by physicist Allan MacLeod Cormack and electrical engineer Godfrey Hounsfield. Their development awarded them the Nobel Prize in Physiology or Medicine in 1979. The first scanners were installed in 1974. Since then, technological advances and math have allowed single images to be computed into two-dimensional informative images. The CT scan is essentially an x-ray study, where a series of rays are rotated around a specified body part, and computer-generated cross-sectional images are produced. The advantage of these tomographic images compared to

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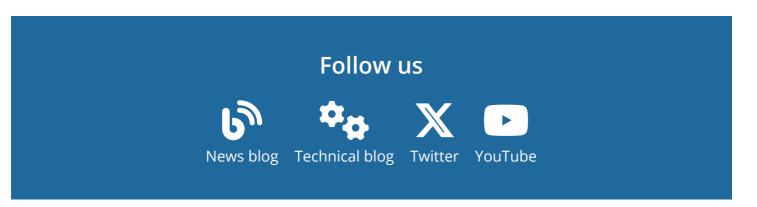
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continuously as the x-ray source and detectors rotate. This reduces the duration of the study significantly to provide quick results in emergent situations. It rapidly substituted cerebral angiography for detecting head trauma injuries and brain masses in a fast and extremely reliable way. A radiologic technician acquires CT scans, which are interpreted and reported by a trained radiologist.





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