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Fluoroscopy: an essential diagnostic modality in the age of high-resolution cross-sectional imaging

Fluoroscopy: an essential diagnostic modality

Abstract

The importance of fluoroscopy as an imaging modality has been inappropriately minimized relative to other cross-sectional modalities, including high-resolution CT, MRI, and ultrasound. Fluoroscopy examinations have decreased in clinical practice due to reduced appreciation of its usefulness, insufficient training of residents, fewer staff with adequate expertise, and poor reimbursements relative to other modalities. We revisit and build upon the prior literature and history of this decreased utilization. We then seek to prove continued value, through categorized examples and within multiple subspecialties, wherein fluoroscopy plays an integral part toward clinical diagnoses as well as optimizing patient outcomes. This is particularly true for motility and esophageal disorders, where structure and function with real-time evaluation is essential. We additionally show several post-operative cases where the synergy of fluoroscopy with CT and endoscopy is apparent. The fluoroscopic radiologist also has the unique ability to vary patient positioning, as opposed to traditional CT or MRI,

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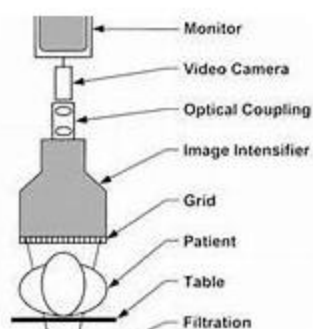


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Fluoroscopy, or real-time projection X-ray imaging, has been in clinical use since shortly after Roentgens discovery of X-rays. Early fluoroscopes consisted simply of an X-ray source and a fluorescent screen, between which the patient was placed. After passing through the patient, the remnant beam impinged upon the fluorescent screen and produced a visible glow, which was directly observed by the practitioner.

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Cited by: 1 **Author:** Philipp L. Müller, Philipp L. Müller, Sebast...

Publish Year: 2019

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2901255>

An additional **modality**, which is increasingly being used for **high-resolution** assessment of bone is magnetic resonance **imaging** (MRI). The absence of ionizing radiation and its excellent soft tissue contrast render MRI a prime **modality** for in vivo assessment of bone structure.

Cited by: 187 **Author:** Roland Krug, Andrew J. Burghardt, Shar...

Publish Year: 2010

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