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Emission Computed Tomography Test Phantoms : A Review (Conference Paper)

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Abstract

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It is vital to assess the performance of emission computed tomography (ECT) systems prior to their use for clinical examinations. Generally, performance tests of ECT systems are time-consuming, expensive and require more than one phantom to scan and then analyse the data. There is nonavailability of such type of phantoms that can provide all necessary data for performance of some quality control (QC) tests from a single scan data. In this paper, commercially available emission computed tomography (ECT) phantoms are thoroughly reviewed. It is concluded that, there is a need of designing and construction of a time-saving and cost-effective new compact ECT phantom. © 2018 IEEE.

SciVal Topic Prominence ⓘ

Topic: Tomography, Emission-Computed, Single-Photon | Myocardial Perfusion Imaging | Heart

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Cost-effective ECT Gamma Camera Phantom Quality Control Spatial Resolution

Indexed keywords

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Engineering uncontrolled terms: Clinical examination Cost effective ECT-systems Emission Computed Tomography Gamma cameras Performance tests Single scan Spatial resolution

Engineering main heading: Phantoms

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