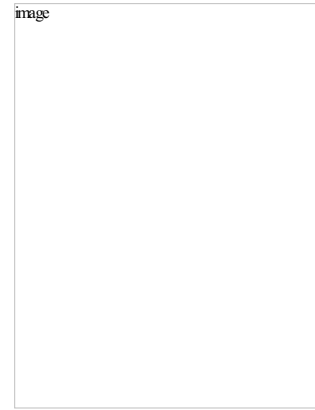


Author's Accepted Manuscript

Dual-Energy CT in Body Imaging

Giuseppe V. Toia, Sooah Kim, Manjiri K. Dighe,
Achille Mileto



www.elsevier.com/locate/bios

PII: S0037-198X(18)30020-8
DOI: <https://doi.org/10.1053/j.ro.2018.02.004>
Reference: YSROE50622

To appear in: *Seminars in Roentgenology*

Cite this article as: Giuseppe V. Toia, Sooah Kim, Manjiri K. Dighe and Achille Mileto, Dual-Energy CT in Body Imaging, *Seminars in Roentgenology*, doi:10.1053/j.ro.2018.02.004

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Dual-Energy CT in Body Imaging

Giuseppe V. Toia ¹, MD; Sooah Kim ¹, MD; Manjiri K. Dighe ¹, MD; Achille Mileto ^{1*}, MD.

¹ Body Imaging Section, Department of Radiology, University of Washington School of Medicine, Box 357115, 1959 NE Pacific Street, Seattle, WA 98195, USA.

*** *Address all correspondence to:***

Dr. Achille Mileto, MD

Department of Radiology
University of Washington School of Medicine
Box 357115, 1959 NE Pacific Street,
Seattle, WA 98195, USA
P: +1 (206) 598-8571
F: +1 (206) 598-0252
Email address: amileto@uw.edu

Abstract

By illuminating materials with two distinct energy spectra, dual-energy CT (DECT) can provide qualitative and quantitative information regarding tissue composition. Over the last decade, tremendous advances in x-ray tube engineering and software development have spurred the resurrection of DECT. This phenomenon has been paralleled by an ever-growing body of research and incremental clinical utilization, especially in the area of body imaging.

This review article discusses fundamental DECT principles, imaging reconstruction, and workflow essentials, as well as aims to provide the reader with an overview of most relevant abdominopelvic applications.

Download English Version:

<https://daneshyari.com/en/article/8607662>

Download Persian Version:

<https://daneshyari.com/article/8607662>

[Daneshyari.com](https://daneshyari.com)