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Author: Pierre Loap, Nicolas Tkatchenko, Eliot ... Publish Year: 2020

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Nov 02, 2020 · The 20 corresponding simulation CT scan had been acquired using the same acquisition parameters (non-contrast and 3 mm slices) and the CT scan images were exported from the Eclipse treatment planning system into the autosegmentation "Workflow Box" software, fitted with the cardiac substructure atlas.

Author: P. Loap, N. Tkatchenko, Y. Kirova Publish Year: 2020

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Wang et al¹⁶ observed the displacement of the **cardiac substructures** during **cardiac** motion alone with deep-inspiration breath-hold and found that most motion occurred in the heart's posterior.¹⁶ When focusing on the LAD specifically, which moved an average of 2.6 mm and 2.3 mm in the X and Y directions, respectively, they noted vast variability ...

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Evaluating cardiac substructure radiation exposure in ...

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Dec 04, 2020 · The broad range of described radiation-induced **cardiac** adverse events can be explained by the complex underlying histologically-diverse **cardiac substructures**; recent breast and lung cancer trials have evidenced that myocardial dysfunction and **cardiac** adverse events correlated with specific **cardiac** substructure exposure ...

Intrafractional Displacement of Cardiac Substructures ...



Name of Journal: *World Journal of Clinical Oncology*
Manuscript NO: 60954
Manuscript Type: ORIGINAL ARTICLE

Basic Study
Autosegmentation of cardiac substructures in respiratory-gated, non-contrasted computed tomography images

Mark Farrugia, Han Yu, Anurag K Singh, Harish Malhotra

Abstract
BACKGROUND
Radiation dose to specific cardiac substructures can have a significant on treatment related morbidity and mortality, yet definition of these structures is labor intensive and not standard. Autosegmentation software may potentially address these issues, however it is unclear whether this approach can be broadly applied across different treatment planning conditions. We investigated the feasibility of autosegmentation of the cardiac substructures in four-dimensional (4D) computed tomography (CT), respiratory-gated, non-contrasted imaging.

AIM
To determine whether autosegmentation can be successfully employed on 4DCT respiratory-gated, non-contrasted imaging.

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Publish Year: 2019

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Jul 01, 2019 · Table 1 shows the difficulty of grading contouring of the different **cardiac substructures** for each patient cohort. Overall, the heart, both atria, both ventricles, the mitral valve, and the tricuspid valve were the easiest of the **cardiac substructures** to contour, as identified on the 10 phases of the 4-dimensional CT scan, with a mean contour score of 1 to 1.2.

Cited by: 2 **Author:** Lidia Guzhva, Lidia Guzhva, Stella Flam...

Publish Year: 2019

Delineation of whole heart and substructures in thoracic ...

<https://www.sciencedirect.com/science/article/pii/S0167814020303388>

Sep 01, 2020 · National guidelines for whole heart and **cardiac substructures** were established. •