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Titel des Beitrags: Dynamic CT perfusion imaging of the myocardium using a wide-detector scanner: a semiquantitative analysis in an animal model.

Abstract: Functional assessment of myocardial perfusion in computed tomography (CT) is a challenge. To evaluate CT dynamic myocardial perfusion imaging (MPI) using a wide-detector scanner. Time to peak (TTP), peak enhancement (PE), upslope (US), and the area under the curve (AUC) were calculated in 12 pigs (256-slice multidetector CT scanner). The entire myocardium was covered by the scan volume. TTP was increased, and PE, US, and AUC were decreased in poststenotic myocardium. CT MPI with complete coverage of the myocardium is feasible, providing evaluation of the physiological significance of coronary artery stenosis.

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