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... the role of **dynamic** contrast-enhanced **magnetic resonance imaging** or **perfusion** computed **tomography** for detection of intratumoral hypoxia in head-and-neck **cancer**

K Newbold, I Castellano, E Charles-Edwards... - International Journal of ..., 2009 - Elsevier

... This exploratory study investigated the **role** of DCE-MRI and **perfusion** CT in predicting intratumoral ... Abbreviations: DCE-MRI = **dynamic** contrast-enhanced **magnetic resonance imaging**; CA9 = carbonic anhydrase 9. * ... **Perfusion** CT in this setting requires further investigation ...

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[HTML] **Perfusion magnetic resonance imaging** of the liver

CH Thng, T San Koh, DJ Collins... - World Journal of ..., 2010 - ncbi.nlm.nih.gov

... ie vascular space), whereas dual compartment models assume that there is **dynamic** distribution of ... Although there is great potential to use liver **perfusion** studies to detect or predict ... more work involving longitudinal studies is required to establish its clinical **role** (Figure (Figure7 ...

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[\[HTML\] nih.gov](#)

[HTML] DCE-MRI in hepatocellular **carcinoma**-clinical and therapeutic **image** biomarker

BB Chen, TTF Shih - World journal of gastroenterology: WJG, 2014 - ncbi.nlm.nih.gov

... Like other malignant tumors, previous researches have reported the **importance** of angiogenesis ... Reductions in **tumor perfusion** were greater in tumors expressing markers of anti ... Representative **dynamic** contrast-enhanced **magnetic resonance imaging** findings in one **advanced** ...

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Dynamic contrast-enhanced **magnetic resonance imaging** is a poor measure of **rectal cancer** angiogenesis

G Atkin, NJ Taylor, FM Daley, JJ Stirling... - British Journal of ..., 2006 - Wiley Online Library

... A **dynamic** series of 60 T 2 *-weighted spoiled GRE **images** was then acquired from a single slice (TE 20 ms, TR 34 ms, α 40°, slice thickness 8 mm, FOV 200 mm ... **Magnetic resonance imaging** measurements and tumour markers of angiogenesis and hypoxia ... **image** Figure 2 ...

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[Dynamic contrast-enhanced magnetic resonance imaging in ...](#)

<https://www.ncbi.nlm.nih.gov/pubmed/30560501>

PURPOSE: To **correlate dynamic contrast-enhanced magnetic resonance imaging (DCE-MRI)** parameters to **tumor grading** and to assess their reliability in predicting pathological complete response (pCR) before neoadjuvant chemoradiotherapy (**CRT**) in **patients with locally advanced rectal cancer (LARC)**.

Cited by: 2**Author:** Maria Ciolina, Damiano Caruso, Dome...**Publish Year:** 2019

[Role of Magnetic Resonance Imaging in Locally Advanced ...](#)

<https://www.intechopen.com/books/colorectal-cancer-surgery-diagnostics-and-treatment/...> ▼

This chapter will give an overview of the **magnetic resonance imaging (MRI)** modalities used in **locally advanced rectal cancer (LARC)** staging with an emphasis on the **role of MRI** and its significance for planning an effective therapeutic strategy for the individual **patient**.

Cited by: 2**Author:** Roberta Fusco, Mario Sansone, Mario ...**Publish Year:** 2014

[Role of Magnetic Resonance Imaging in Locally Advanced ...](#)

https://www.researchgate.net/publication/260917955_Role_of_Magnetic_Resonance_Imaging...

Purpose To **assess preoperative short-course radiotherapy (SCR) tumor response** in **locally advanced rectal cancer (LARC)** by means of Standardized Index of Shape (SIS) by **dynamic contrast-enhanced ...**



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MRI of Rectal Cancer: An Overview and Update on Recent ...

<https://www.ajronline.org/doi/full/10.2214/AJR.14.14201>**Introduction****Performance****Use****Analysis****Assessment**

OBJECTIVE. MRI is the modality of choice for rectal cancer staging. The high soft-tissue contrast of MRI accurately assesses the extramural tumor spread and relation to mesorectal fascia and the sphincter complex. This article reviews the role of MRI in the staging and treatment of rectal cancer. The relevant anatomy, MRI techniques, preoperative staging, postchemoradiation therapy (CRT) imaging, and tumor recurrence are discussed with special attention to recent advances in knowled...

[See more on ajronline.org](https://www.ajronline.org)**Cited by:** 60**Author:** Kartik S. Jhaveri, Hooman Hosseini-Nik**Publish Year:** 2015

Imaging in rectal cancer with emphasis on local staging ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4419424>

Imaging in rectal cancer has a vital role in staging disease, and in selecting and optimizing **treatment** planning. High-resolution **MRI** (HR-MRI) is the recommended method of first choice for **local** staging of **rectal cancer** for both primary staging and for restaging after preoperative **chemoradiation** (CT-RT).

Diffusion-weighted imaging and dynamic contrast-enhanced ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4432943>

Mar 15, 2015 · **Magnetic resonance imaging (MRI)** has an established role in **imaging pelvic gynaecological malignancies**. It is routinely used in staging **endometrial and cervical cancer**, characterizing **adnexal** masses, selecting **optimal treatment**, **monitoring treatment** and detecting recurrent disease.

Cited by: 25**Author:** Ayshea Hameeduddin, Anju Sahdev**Publish Year:** 2015

12

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 54106

Manuscript Type: ORIGINAL ARTICLE

Prospective Study

Role of dynamic perfusion magnetic resonance imaging in patients with local advanced rectal cancer

Ippolito D *et al.* Dynamic perfusion MRI imaging in assessment of CRT

Davide Ippolito, Silvia Girolama Drago, Anna Pecorelli, Cesare Maino, Giulia Querques, Ilaria Mariani, Cammillo Talei Franzesi, Sandro Sironi

Abstract

BACKGROUND

The management of rectal cancer patients is mainly based on the use of the magnetic resonance imaging (MRI) technique as a diagnostic tool for both staging and restaging. After treatment, to date, the evaluation of complete response is based on the histopathology assessment by using different tumor regression grade (TRG) features (*e.g.*, Dworak or Mandard classifications). While from the radiological point of view, the main attention for

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