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Hypofractionated particle beam therapy for hepatocellular carcinoma—a brief review of clinical effectiveness

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Abstract

Hepatocellular carcinoma (HCC) is the fifth most common malignancy and the second leading cause of cancer mortality worldwide. The cornerstone to improving the prognosis of HCC patients has

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EP-1274: Effectiveness and safety of proton beam therapy ...

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To evaluate the clinical effectiveness and **safety** of **proton beam therapy** (PBT) in advanced **hepatocellular carcinoma** (HCC) patients with **portal vein tumor thrombosis** (PVTT).

trial comparing hypofractionated: Topics by Science.gov

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Proton therapy - A systematic review of clinical effectiveness

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The physical and biological principles of **particle beam therapy** are presented and the **clinical** aspects of proton and carbon ion **therapy** of the prostate are discussed.

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MedWorm: **Proton Therapy** Research In this study different algorithms for 4DCBCT reconstruction and DIR were evaluated. For this purpose, CBCT scans of a moving ex vivo porcine lung phantom with 663 and 2350 projections respectively were acquired, accompanied by an additional 4DCT as reference.

The Benefits of Proton Stereotactic Body Radiation Therapy ...

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The **Effectiveness** of Proton SBRT. With the precision of proton pencil **beam** scanning (PBS), SBRT to all sites can be performed using protons. ... A recent meta-analysis of 72 conventional photon SBRT **clinical** studies and 9 **hypofractionated particle beam therapy** (PBT) studies on NSCLC found that



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A Prospective Study of Hypofractionated Proton Beam ...

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Jul 01, 2009 · To evaluate the **efficacy** and safety of **hypofractionated proton beam therapy** for patients with **hepatocellular carcinoma (HCC)**. Methods and Materials Between September 2001 and August 2004, 51 patients with **HCC greater** than 2 cm away from the **porta hepatis** or gastrointestinal tract were treated with **proton beam therapy** to 66 Gy-equivalents (GyE) in 10 fractions.

Cited by: 185 **Author:** Nobuyoshi Fukumitsu, Shinji Sugahara, ...

Publish Year: 2009

Hypofractionated carbon ion therapy delivered with scanned ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3663740>

Until our 360° gantry for **particle beams** is in operation – thus improving our **beam angle** options – the fixed single **beam** line will be in use. For the first time we present the feasibility and **efficacy** of a **hypofractionated carbon ion therapy** for primary and recurrent **HCC** ...

Cited by: 89 **Author:** Daniel Habermehl, Jürgen Debus, Tom G...

Publish Year: 2013

A Prospective Study of Hypofractionated Proton Beam ...

https://www.researchgate.net/publication/24217839_A_Prospective_Study_of...

We evaluated the effectiveness and toxicity of **proton beam therapy (PBT)** for **hepatocellular carcinomas (HCC)** >5 cm without **fiducial markers** using **four-dimensional CT (4D-CT)** planning.

The safety and efficacy of high-dose proton beam ...

<https://onlinelibrary.wiley.com/doi/abs/10.1002/cncr.25809>

Jan 24, 2011 · Wei-Xiang Qi, Shen Fu, Qing Zhang and Xiao-Mao Guo, **Charged particle therapy versus photon therapy** for patients with **hepatocellular carcinoma: A systematic review and meta-analysis**, *Radiotherapy and Oncology*, 114, 3, (289), (2015).

Cited by: 141 **Author:** David A. Bush, Zeid Kayali, Roger Grove,...



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Hypofractionated carbon ion therapy delivered with scanned ion beams for patients with **hepatocellular carcinoma** – feasibility and **clinical response** Daniel Habermehl , 1 Jürgen Debus , 1 Tom Ganten , 2 Maria-Katharina Ganten , 3 Julia Bauer , 4 Ingo C Brecht , 1 Stephan Brons , 4 Thomas Haberer , 4 Martin Haertig , 1 Oliver Jäkel , 1 Katia ...

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A Prospective Study of Hypofractionated Proton Beam Therapy for Patients With Hepatocellular Carcinoma Article in International journal of radiation oncology, biology, physics 74(3):831-6 · April ...

The safety and efficacy of high-dose proton beam ...

<https://onlinelibrary.wiley.com/doi/full/10.1002/cncr.25809>

Jan 24, 2011 · The safety and efficacy of high-dose **proton beam radiotherapy** for **hepatocellular carcinoma**: a phase 2 prospective trial. ... Patient specific outcomes of charged **particle therapy** for **hepatocellular carcinoma** – A systematic review and ... **Clinical evidence of particle beam therapy** (proton), International Journal ...

Cited by: 144

Author: David A. Bush, Zeid Kayali, Roger Grove,...

Publish Year: 2011

The safety and efficacy of high-dose proton beam ...

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Jan 24, 2011 · The safety and efficacy of high-dose **proton beam radiotherapy** for **hepatocellular carcinoma**: a phase 2 prospective trial. David A. Bush MD. ... Is there a role for **proton therapy** in the treatment of **hepatocellular carcinoma**? A systematic review ... **Clinical evidence of particle beam**