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

Che-Yu Hsu, Chun-Wei Wang, Ann-Lii Cheng, and Sung-Hsin Kuo

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

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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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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...

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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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Publish Year: 2009

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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

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