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**Reirradiation of recurrent breast cancer with proton beam therapy: A case report and literature review**

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## **Abstract**

### ***BACKGROUND***

Locoregional recurrence of breast cancer is challenging for clinicians, due to the various former treatments patients have undergone. However, treatment of the recurrence with systemic therapy and subsequent reirradiation of chest wall is accompanied by increased toxicities, particularly radiation-induced cardiovascular

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Sep 18, 2008 · Treatment options for loco-regional recurrent breast cancer after previous irradiation are limited. The efficacy of chemotherapy might be hampered because of impaired tissue perfusion in preirradiated tissue. Thus, mastectomy or local excision and reconstructive surgery are the preferred treatments.

Cited by: 32 Author: Florian Würschmidt, Jörg Dahle, Cordula ...

Publish Year: 2008

### Reirradiation of recurrent breast cancer with and without ...

<https://ro-journal.biomedcentral.com/articles/10.1186/1748-717X-3-28> ▾

Sep 18, 2008 · The median age was 62 years (range 35 to 82 yrs). The median interval between initial diagnosis and diagnosis before start of reirradiation was 70 months (range 10.3 to 295.5. Further details of tumour stage and recurrence site are given in table 1. Recurrent breast cancer treated with reirradiation.

Published in: Radiation Oncology · 2008

Authors: Florian Wurschmidt · Jorg Dahle · Cordula Petersen · Claudia Wenzel · Matthias Krets...

About: Progression-free survival · Capecitabine · Side effect · Acute toxicity · Combined Mod...

### Special Cases for Proton Beam Radiotherapy: Re-irradiation ...

<https://www.sciencedirect.com/science/article/pii/S0093775414002449>

Proton therapy for breast cancer has been developed for three particular situations: breast boost, accelerated partial breast irradiation, and chest wall radiation. Breast Boost The rationale for using proton therapy for breast boost is the general goal of treating the target of radiation with as little normal tissue as reasonably possible.

Cited by: 14 Author: John P. Plataras, Abigail T. Berman, Gar...

Publish Year: 2014

### Review of Pulsed Reduced Dose Rate Re-irradiation for ...

<https://www.omicsonline.org/open-access/review-of-pulsed-reduced-dose-rate-re...> ▾

May 14, 2018 · Moreover, utilization of reirradiation to treat recurrent cancer is frequently avoided due to concerns for exceeding normal tissue tolerances in the previous treatment area. Finally, re-irradiation is often employed in the palliative setting and less than definitive radiation doses are used.

Author: Kevin Rogacki, Samuel T. Chao, Jenn... Publish Year: 2018

### Proton beam therapy for liver metastasis from breast ...

<https://link.springer.com/article/10.1007/s13691-012-0043-0> ▾

Jul 24, 2012 · Between March 2003 and March 2009, five breast cancer patients with single or multiple but localized liver metastases were treated with proton beam therapy (PBT). A total dose of 66 GyE in 10 fractions or 72.6 GyE in 22 fractions was delivered, depending on tumor location.



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## Reirradiation of recurrent breast cancer with and without ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2556652>

Sep 18, 2008 · However, in recent years evidence accumulates that a second **breast** conserving approach with **reirradiation** as part of the treatment might be feasible and safe and, furthermore, **reirradiation** might be an option for palliation. Here we **report** on the experience of a single community centre in **reirradiation of recurrent breast cancer**.

Cited by: 32 Author: Florian Würschmidt, Jörg Dahle, Cordula ...

Publish Year: 2008

## Reirradiation of recurrent breast cancer with and without ...

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Sep 18, 2008 · Treatment options for loco-regional **recurrent breast cancer** after previous irradiation are limited. The efficacy of chemotherapy might be hampered because of impaired tissue perfusion in preirradiated tissue. Thus, mastectomy or local excision and reconstructive surgery are the preferred treatments. However, in recent years evidence accumulates that a second **breast** conserving ...

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## Proton beam therapy for liver metastasis from breast ...

<https://link.springer.com/article/10.1007/s13691-012-0043-0> ▾

Jul 24, 2012 · **A case** of liver metastasis treated **with proton beam therapy**. a Before **proton beam therapy** (PBT), the size of liver metastasis was about 70 mm. b **Proton** beams were delivered via 3 ports and the irradiated dose of PBT was 66 GyE in 10 fractions. c ...

Cited by: 1 Author: Ayae Kanemoto, Hitoshi Ishikawa, Masas...

Publish Year: 2012

## Proton therapy for thoracic reirradiation of non-small ...

[tcr.amegroups.com/article/view/20667/16109](http://tcr.amegroups.com/article/view/20667/16109) ▾

This article aims to **review** the rationale for the use of **proton beam therapy** for treatment of locally **recurrent non-small cell lung cancer**, highlight the current published experience on the feasibility, efficacy, and limitations of **proton beam reirradiation**, and discuss future avenues for improved patient selection and treatment delivery.

Author: Hann-Hsiang Chao, Abigail T. Berman Publish Year: 2018

## Special Cases for Proton Beam Radiotherapy: Re-irradiation ...