

## Journal Articles

### 2017

Baumer C, Ackermann B, Datzmann G, Hillbrand M, Kaiser F-J, Koska B, Latzel H, Luhr A, Menkel S, Timmermann B:

[Dosimetry intercomparison of four German proton therapy institutions employing spot-scanning.](#)

Z Med Phys. 2017; 27(2):80-85. IF 2.963

Trinkl S, Engbrecht F, Mares V, Wilkens J J, Wielunski M, Parodi K, Ruhm W, Datzmann G, Hillbrand M:

[Systematic out-of-field secondary neutron spectrometry and dosimetry in a proton therapy facility.](#)

Med Phys. 2017; 44(5):1912- 20. IF 2.496

### 2016

Wuerl M, Engbrecht F, Parodi K, Hillbrand M:

[Impact of a scanned proton beam's low-dose envelope on the accuracy of a clinical dose delivery at a ProBeam based facility: a comparison of measurements with TPS and Monte Carlo calculations.](#)

Phys Med Biol. 2016; 61(2):958-73. IF 2.761

### 2015

Reinhardt S, Wuerl M, Greubel C, Humble N, Wilkens J J, Hillbrand M, Mairani A, Assmann W, Parodi K:

[Investigation of EBT2 and EBT3 films for proton dosimetry in the 4–20 MeV energy range.](#)

Radiat Environ Biophys. 2015 Mar;54(1):71-9. IF 1.528

### 2012

Reinhardt S, Hillbrand M, Wilkens JJ and Assmann W:

[Comparison of Gafchromic EBT2 and EBT3 films for clinical photon and proton beams.](#)

Med Phys. 2012; 39(8):5257-62. IF 2.830

## Conference Proceedings (Referred)

### 2017

Hillbrand M, Landry G, Dedes G, Pappas E P, Kalaitzakis G, Kurz C, Doerringer F, Kaiser K, Wuerl M, Englbrecht F, Dietrich O, Makris D, Pappas E, Parodi K:

[\*A 3D polymer gel dosimeter coupled to a patient-specific anthropomorphic phantom for pencil beam scanned proton therapy\*](#)

Radiotherapy and Oncology 123 (2017): S432-S433

Pappas E, Kantemiris I, Boursianis T, Landry G, Dedes G, Maris T, Lahanas V, Hillbrand M, Parodi K, N. Papanikolaou:

[\*End-to-End QA methodology for proton range verification based on 3D-polymer gel MRI dosimetry\*](#)

Radiotherapy and Oncology 123 (2017): S242

### 2016

Englbrecht F., Trinkl S, Mares V, Wielunski M, Wilkens J, Hillbrand M, Parodi K:

[\*Monte-Carlo Studie der Energiespektren sekundärer Neutronen außerhalb des Bestrahlungsfeldes in einem mit der Scanning Technik und Gantry ausgestatteten Protonentherapie Behandlungsraum\*](#)

DGMP 2016, Wuerzburg, Abstractband p. 290-291, ISBN: 978-3-9816508-2-2

Englbrecht F, Trinkl S, Mares V, Ruehm W, Wielunski M, Wilkens J, Hillbrand M and Parodi K:

[\*SU-F-T-217: A Comprehensive Monte-Carlo Study of Out-Of-Field Secondary Neutron Spectra in a Scanned-Beam Proton Therapy Treatment Room\*](#)

Med. Phys. 43, 3512 (2016)

### 2015

Reinhardt S, Wuerl M, Greubel C, Wilkens J, Hillbrand M, Mairani A, Assmann W, Parodi K:

[\*LET Dependence Correction of Radiochromic Films for Application in Low Energy Proton Irradiation\*](#)

Med Phys. 2015 Jun; 42(6):3458

Wuerl M, Englbrecht F, Hauffe J, Parodi K, Hillbrand M:

[\*Dose output dependence on field size and spot spacing in scanned proton therapy – a comparison of measurements with TPS and MC calculations\*](#)

DGMP Marburg 2015, Abstractband p. 338, ISBN: 978-3-9816508-8-4

### 2013

Englbrecht F, Reinhardt S, Kakoschke A, Hillbrand M, Weick M, Datzmann G, Hauffe J, Parodi K:

[\*Monte-Carlo modelling to support quality assurance at a clinical proton therapy facility\*](#)

DGMP Jahrestagung Abstractband ISBN 978-3-9816002-1-6, 721-2 (2013)

Reinhardt S, Hillbrand M, Wilkens JJ, Assmann W:

[Evaluation of EBT3 films for use in clinical photon and proton beams](#)

Radiotherapy and Oncology 2013; 106(s2), 288

Reinhardt S, Hillbrand M, Wilkens J, W. Assmann and Parodi K:

*Evaluation of EBT2 and EBT3 Films for Dosimetry in Laser-Driven Ion Accelerators*

Med. Phys. 2013; 40, 215

Skalsky C, Hillbrand M, Hauffe J, Datzmann G:

[Stabilität und Reproduzierbarkeit verschiedener Anlagenparameter an einer Protonen-Pencilbeam-Scanning-Anlage – Erfahrung der ersten 4 Betriebsjahre](#)

DGMP Jahrestagung Abstractband ISBN 978-3-9816002-1-6, 721-2 (2013)

## **2011**

Domke T., Skalsky C, Datzmann G, B. Mueller, Hillbrand M, Hauffe J:

[Long-term stability of a scanned proton pencil beam - a roadmap to Intensity Modulated Proton Therapy](#)

DGMP Jahrestagung Abstractband ISBN 3-925218-89-0

## Conference Proceedings (Non-Refereed)

### 2017

G. Landry, Hillbrand M, G. Dedes, E.P. Pappas, G. Kalaitzakis, C. Kurz, F. Doerringer, K. Kaiser, Wuerl M, F. Englbrecht, O. Dietrich, D. Makris, E. Pappas, Parodi K:  
*Patient specific 3D gel dosimetry for proton therapy*  
NEUDOS-13 Conference, May 14-19, 2017 Krakow

### 2016

Bachtiary B, Richter R, Rank B et al.:  
*Proton Therapy for Pancreatic Cancer: Clinical experience with 2 year follow up*  
PTCOG 55

Richter R, Herbst M, Bachtiary B et al.:  
*Proton irradiation in childhood and adolescence at RINECKER Proton Therapy Center*  
ESTRO 2016, #E35-1673

### 2015

Eckermann M, Hillbrand M, Bachtiary B:  
*Prozeßunterstützung durch Anästhesie – Protonenbestrahlung unter Apnoe*  
Deutscher Anästhesie Congress, May 2015, Düsseldorf, Germany

Skalsky C and Hillbrand M:  
*Dosimetric Characterization of a Patient Support Device for Proton Therapy*  
PTCoG Conference, Sept. 2015, San Diego, USA

Trinkl S, Datzmann G, Mares V, Wielunski M, Hauffe J, J.Wilkens J, W. Ruehm, Hillbrand M:  
*New possibilities for proton therapy at the RPTC due to expansion of the energy range, field size and treatment angles*  
PTCoG Conference, Sept. 2015, San Diego, USA

Wuerl M, Englbrecht F, Hauffe J, Parodi K, Hillbrand M:  
*Impact of a pencil beams low dose envelope on the accuracy of clinical dose delivery*  
PTCoG Conference, Sept. 2015, San Diego, USA

### 2014

Skalsky C, Lin Y, Datzmann G, Hillbrand M, and Hauffe J:  
*New possibilities for proton therapy at the RPTC due to expansion of the energy range, field size and treatment angles*  
PTCoG Conference, Jun. 2014, Shanghai, VR China

## 2013

Bachtiary B, Walser M, Wilms M, Haidenberger A, Zechmann C, Koepl D, Herbst M, Hillbrand M:  
*Spot-Scanning Proton Radiation Therapy for Adenoid Cystic Carcinoma of the Minor and Major Salivary Gland: Retrospective Analysis of 15 Patients treated at Rinecker Proton Therapy Center*  
PTCOG Conference, Jun. 2013, Essen, Germany

Datzmann G, Hillbrand M, Skalsky C, Hauffe J:  
*Commissioning of pencil beam scanning at RPTC: tools and results – a users view*  
PTCoG Conference, Jun. 2013, Essen, Germany

Eckermann M, Hillbrand M, Herbst M, Rinecker H:  
*Protonen-Scanning unter Apnoebedingungen*  
PTCoG Conference, Jun. 2013, Essen, Germany

Groger M, Hillbrand M, Walser M, Wilms A, Zechmann C, Haidenberger A, Koepl D, Herbst M, Bachtiary B:  
*Individualized spot-scanning proton therapy for liver metastases: analysis of 32 patients treated at Rinecker Proton Therapy Center*  
PTCoG Conference, Jun. 2013, Essen, Germany

Haidenberger A, Walser M, Hillbrand M, Herbst M:  
*Hypofractionated proton therapy for inoperable pancreatic cancer – first results*  
PTCOG Conference, Jun. 2013, Essen, Germany

Herbst M, Wilms M, Haidenberger A, Walser M, Hillbrand M:  
*Hypofractionated – escalated proton beam scanning radiotherapy for prostate cancer*  
PTCoG Conference, Jun. 2013, Essen, Germany

Hillbrand M, Reinhardt S, Weick-Kleemann M, Assmann W, Parodi K, Hauffe J: *Towards a universal beam model - Dosimetric comparability of different proton beam lines of the same facility*  
PTCoG Conference, Jun. 2013, Essen, Germany

Koepl D, Hauffe J, Hillbrand M:  
*Towards a universal beam model - Dosimetric comparability of different proton beam lines of the same facility*  
PTCOG Conference, Jun. 2013, Essen, Germany

Walser MA, Haidenberger A, Bachtiary B, Wilms M, Steinke M, Hauffe J, Hillbrand M.  
*Hypofractionated spot-scanning proton therapy of lung metastases under functional apnoe: Analysis of the reproducibility of patient set-up and inter-fractional robustness of dose distribution*  
PTCOG Conference, Jun. 2013, Essen, Germany

## 2012

Eckermann M, Hillbrand M, Herbst M, Rinecker H:  
*Protonen-Scanning unter Apnoebedingungen*  
DEGRO-Jahrestagung, Jun. 2012, Wiesbaden, Germany

Haidenberger A, Walser MA, et. al.:  
*Hypofractionated proton therapy for inoperable pancreatic cancer – first results*  
DEGRO 2012

Herbst M, Wilms M, et. al.:  
*Hypofractionated - escalated proton beam scanning radiotherapy for prostate cancer*  
DEGRO 2012

Walser MA, Herbst M, et. al.:  
*Hypofraktionierte und dosiseskalierte Scanning-Protonentherapie für Patienten mit high-risk Prostatakarzinomen, welche eine zusätzliche Androgendeprivation verweigern*  
DEGRO 2012

## 2011

Eckermann M, Hillbrand M, Herbst M, Rinecker H:  
*Scanning proton beam radiotherapy under functional apnea*  
PTCoG Conference, May 2011, Philadelphia, USA,  
ÖGRO-Jahrestagung, Nov 2011, Vienna, Austria

Eckermann M, Hillbrand M, Herbst M, Rinecker H:  
*Scanning proton beam radiotherapy under functional apnea*  
ÖGRO-Jahrestagung, Nov 2011, Vienna, Austria

Haidenberger A, Walser MA, et. al.:  
*Hypofraktionierte Protonentherapie bei inoperablen Pankreaskarzinomen*  
ÖGRO 2011

Herbst M, Wilms M, et. al.:  
*Hypofractionated Proton Beam Scanning Radiotherapy for Prostate Cancer*  
PTCOG 50 (2011)

Skalsky Ch, Datzmann G, Domke T, Hillbrand M, Mueller B, Hauffe J:  
*Optimized geometric accuracy of a scanned proton pencil beam – a roadmap to Intensity Modulated Proton Therapy*  
PTCoG Conference, May 2011, Philadelphia, USA