25. Articles in International Journals (Peer-Reviewed)


2005


26. **Articles in International Conference Proceedings (Peer-Reviewed)**


27. Articles in National Journals


P. Mavroidis, B. Costa Ferreira, G. Komisopoulos, K. Sotiriadou, G. Soulimioti, E.

(It includes translated parts from corresponding own international journal article for educational purpose)

### 28. Chapters in Books


29. Books and Monographies


30. Publications in Scientific News Journals

30.1. P. Mavroidis 2003 ESTRO teaching course on “Basic Clinical Radiobiology” in Santorini, Greece, October 12-16, ESTRO news 56, pp. 17


31. Submitted Articles in peer-reviewed International Journals


### 32. Articles to be submitted in peer-reviewed International Journals (in manuscript form)

32.1. K.I. Kauweloa, A.N. Gutierrez, S. Stathakis, N. Papanikolaou, **P. Mavroidis**. Radiobiological evaluation of cervical cancer treatments, which combine external radiotherapy and brachytherapy.

32.2. K.I. Kauweloa, A.N. Gutierrez, S. Stathakis, N. Papanikolaou, **P. Mavroidis**. Clinical analysis of the biological effective dose (BED) equation for treating multi-phase liver tumors.


32.6. G. Komisopoulos, A. Tzikas, S. Stathakis, C. Buckey, G. Swanson, N. Papanikolaou, B. K. Lind, **P. Mavroidis** Comparison of IMRT and 3D conformal therapy using 6 and 15 MV energy beams and treatment protocols regarding the risk for acute reactions and secondary malignancies.


32.8. I.A. Jurkovic, S. Stathakis, Y. Li, A. Patel, J. Vincent N. Papanikolaou, **P. Mavroidis**. Evaluation of the optimal intensity modulated radiation therapy plans done on the maximum and average intensity projection CTs.


treated with radiation therapy.


### 33. Oral and Invited Presentations

33.1. **P. Mavroidis**, B.K. Lind and C. Kappas, An index for evaluating and increasing the probability of complication free tumor control in radiation therapy. 1st Balkan Congress of Oncology, Athens, Hellas, July 3-7, 1996


33.3. **P. Mavroidis** and B.K. Lind, Software for assessing optimal complication free tumor control, dose level and fractionation schedule. World Congress on Medical Physics and Biomedical Engineering, Nice, France, September 14-19, 1997

C. Kappas, Clinical evaluation of dose-response models and parameter sets predicting radiation induced pneumonitis from breast cancer radiotherapy
8th Biennial ESTRO Meeting on Physics and Radiation Technology for Clinical Radiotherapy, Sept. 2005

8th Biennial ESTRO Meeting, Lisboa, Portugal, September 24-29, 2005

33.6. **P. Mavroidis**, B. Costa Ferreira*, R. Svensson, K. Theodorou, B. Lind and A. Brahme, Quantification of differences between planned and delivered IMRT dose distributions in terms of complication-free cure.
8th Biennial ESTRO Meeting, Lisboa, Portugal, September 24-29, 2005

Annual RSNA Meeting, Chicago, USA, November 25-30, 2007

49th AAPM Annual Meeting, Minneapolis, Minnesota, USA, July 22-26, 2007


33.10. N. Papanikolaou, S. Stathakis and **P. Mavroidis**, Expected clinical impact of the differences between planned and delivered dose distributions in Helical Tomotherapy.

33.11. **P. Mavroidis**, Biological Model-Based IMRT Plan Optimization.
World Congress in Medical Physics and Biomedical Engineering, Munich, Germany, September 7 – 12, 2009

ESTRO Anniversary Congress, London, United Kingdom, May 8-12, 2011
34. Abstracts in International Journals and International Conferences

34.1. **P. Mavroidis**, B.K. Lind and C. Kappas, An index for evaluating and increasing the probability of complication free tumor control in radiation therapy.
1st Balkan Congress of Oncology, Athens, Hellas, July 3-7, 1996
*J. Balcan Union Oncol.* 1, pp.39, 1996

34.2. **P. Mavroidis** and B.K. Lind, A dosimetric report for the determination of absorbed dose from high-energy photon and electron beams (Task Group 21, AAPM). Basic steps in the application of the protocol. Development of a software for easier and reliable clinical implementation of the protocol.
1st Summer School in “Radiation Therapy Physics”, Balkan Union of Oncology, Patras, Hellas, June 30 – July 6, 1997

34.3. **P. Mavroidis** and B.K. Lind, Software for assessing optimal complication free tumor control, dose level and fractionation schedule.
World Congress on Medical Physics and Biomedical Engineering, Nice, France, September 14-19, 1997

34.4. **P. Mavroidis**, B.K. Lind, B. Proimos and A. Brahme, Comparison of conformal radiation therapy techniques within the dynamic radiotherapy project DYNARAD.
6th International Conference on Medical Physics, Patras, Hellas, Sept. 1-4, 1999
*Phys Medica* 15 (3), pp.188-9, 1999

Proceedings in World Congress on Medical Physics and Biomedical Engineering, Chicago, USA, July 23-28, 2000


34.7. **P. Mavroidis** 2002 Determination and use of radiobiological response parameters in radiation therapy optimization. *Acta Oncol.* 41, 318

34.8. **P. Mavroidis**, B.K. Lind and A. Brahme, Biologically effective uniform dose for appropriate dose prescription and treatment plan comparison.
Proceedings in 21st Annual ESTRO Meeting, Prague, Czech Republic, September 17-21, 2002
*Radiother. Oncol.* 64 (Suppl. 1) pp. 224, 2002

34.9. M. Adamus-Górka, **P. Mavroidis**, B.K. Lind and A. Brahme, Comparison of normal tissue damage models for radiobiologically optimized radiation therapy.
Proceedings in 21st Annual ESTRO Meeting, Prague, Czech Republic, September 17-21, 2002
*Radiother. Oncol.* 64 (Suppl. 1) pp. 200, 2002

Proceedings in 21st Annual ESTRO Meeting, Prague, Czech Republic, September 17-21,


34.18. B. Andisheh, B. Lind, M. Bitaraf, **P. Mavroidis** and A. Brahme, Clinical and
radiobiological advantages of stereotactic light ion beam radiation therapy for large intracranial arteriovenous malformations.
Proceedings in 7th International Stereotactic Radiosurgery Society Congress, Brussels, Belgium, September 11-15, 2005


Proceedings in 8th Biennial ESTRO Meeting, Lisboa, Portugal, September 24-29, 2005 *Radiother. Oncol.* **74** (Suppl. 1) pp. 70-1, 2005

34.21. **P. Mavroidis**, B. Costa Ferreira, R. Svensson, K. Theodorou, B. Lind and A. Brahme, Quantification of differences between planned and delivered IMRT dose distributions in terms of complication-free cure.
Proceedings in 8th Biennial ESTRO Meeting, Lisboa, Portugal, September 24-29, 2005 *Radiother. Oncol.* **74** (Suppl. 1) pp. 98, 2005


34.23. N. Papanikolaou, C. Shi, **P. Mavroidis**, C. Kappas and J. Penagaricano, Plan evaluation using the Biologically Uniform Dose (BUD) concept.

Proceedings in World Congress on Medical Physics & Biomedical Engineering Seoul, Korea, 2006 – 27 August - 1 September, 2006

Proceedings in World Congress on Medical Physics & Biomedical Engineering Seoul, Korea, 2006 – 27 August - 1 September, 2006


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Proceedings in 25th ESTRO Meeting, Leipzig, Germany, October 8-12, 2006
*Radiother. Oncol.* **81** (Suppl. 1) pp. 135, 2006

34.27. **P. Mavroidis**, F. Costa Ferreira, S. Shi, J. Penagaricano, B.K. Lind and N. Papanikolaou, Comparison of dose distributions from Tomotherapy and IMRT treatment plans using the biologically effective uniform dose. Proceedings in 25th ESTRO Meeting, Leipzig, Germany, October 8-12, 2006
*Radiother. Oncol.* **81** (Suppl. 1) pp. 245, 2006

*Radiother. Oncol.* **81** (Suppl. 1) pp. 281, 2006

*Radiother. Oncol.* **81** (Suppl. 1) pp. 415, 2006

*Radiother. Oncol.* **81** (Suppl. 1) pp. 441, 2006

34.31. B. Andisheh, M.A. Bitaraf, B.K. Lind, **P. Mavroidis** and A. Brahme, Evaluation of effective number of crucial vessels in arteriovenous malformation nidus based on clinical data and binomial modeling. Proceedings in 8th Bi-Annual Congress of the Stereotactic Radiosurgery Society (ISRS), San Francisco, USA, June 23-27, 2007


34.34. **P. Mavroidis**, B.C. Ferreira, N. Papanikolaou, R. Svensson, B.K. Lind and A. Brahme, Expected clinical impact of the differences between planned and delivered IMRT dose distributions. Proceedings in 49th AAPM Annual Meeting, Minneapolis, Minnesota, USA, July 22-26, 2007


34.45. B. Andisheh, M.A. Bitaraf, B.K. Lind, **P. Mavroidis** and A. Brahme, Evaluation of the effective number of critical vessels inside arterio-venous malformation based on clinical data and binomial modelling. Proceedings in 14th International Meeting Leksell Gamma Knife Society, Quebec, Canada, May 18-22, 2008


34.54. G. Komisopoulou, **P. Mavroidis**, N. Papanikolaou and B.K. Lind, Interpretation of the dosimetric results in terms of expected treatment outcome when optimizing treatment plans using different methods of regularizing dose inhomogeneity. 


34.56. N. Papanikolaou, S. Stathakis and **P. Mavroidis**, Expected Clinical Impact of the Differences between planned and delivered dose distributions in Helical Tomotherapy. 

34.57. D. Giantsoudi, Y. Liu, A. Diaz, **P. Mavroidis** and N. Papanikolaou, Neutron energy and dose considerations of Cf-252 brachytherapy sources for various geometries. 

34.58. S. Stathakis, A. Gutiérrez, P. Rassiah-Szegedi, **P. Mavroidis** and N. Papanikolaou, Commissioning of flattening filter free Varian 600C linear accelerator. 

34.59. P. Desai, S. Stathakis, A. Gutiérrez, **P. Mavroidis** and N. Papanikolaou, Investigation of the transmission detectors for daily dose verification and QA of IMRT treatments. 

34.60. S. Stathakis, A. Gutiérrez, **P. Mavroidis** and N. Papanikolaou, Dosimetric verification of the CCCS algorithm for spatially fractionate radiation therapy. 

34.61. M.G. Delichas, **P. Mavroidis**, B. Costa Ferreira, C. Shi, A. Gutierrez, B.K. Lind, N. Papanikolaou and C. Ha, Comparison of 3D-CRT, MLC-Based IMRT and Helical Tomotherapy for Lung Cancer Radiotherapy. 
50th ASTRO Annual Meeting, Boston, MA, USA, September 21-25, 2008

50th ASTRO Annual Meeting, Boston, MA, USA, September 21-25, 2008

34.64. N. Papanikolaou, S. Stathakis, **P. Mavroidis** and C. Ha, Patient setup correction in treating head and neck cancer with Helical Tomotherapy. 50th ASTRO Annual Meeting, Boston, MA, USA, September 21-25, 2008


34.67. F. Su, **P. Mavroidis**, C. Shi, S. Statthakis and N. Papanikolaou, Treatment planning for prostate cancer: biologically quantitative comparisons among conventional radiotherapy and three IMRT delivery techniques. 50th ASTRO Annual Meeting, Boston, MA, USA, September 21-25, 2008

34.68. C. Buckey, S. Statthakis, G. Swanson, **P. Mavroidis**, F.C. Su and N. Papanikolaou, Are current IMRT plans superior to 3d conformal therapy for prostate cancer? A dosimetric comparison. 50th ASTRO Annual Meeting, Boston, MA, USA, September 21-25, 2008


34.73. B. Costa Ferreira, **P. Mavroidis**, M. Adamus-Górka, R. Svensson and B.K. Lind, Varying dose-response parameters in the biological optimization of breast cancer IMRT.
27th ESTRO Annual Meeting, Göteborg, Sweden, September 14-18, 2008

34.74. C. Buckey, S. Stathakis, G. Swanson, P. Mavroidis, F.C. Su and N. Papanikolaou, Dosimetric comparison of prostate treatment modalities. 27th ESTRO Annual Meeting, Göteborg, Sweden, September 14-18, 2008


34.83. N. Papanikolaou, S. Stathakis, P. Mavroidis and C. Ha, Planned vs. Delivered Dose Distributions with and without Patient Setup Correction in Helical Tomotherapy. 27th ESTRO Annual Meeting, Göteborg, Sweden, September 14-18, 2008

34.84. G.A. Plataniotis, P. Mavroidis, M. Adamus Górka, S. Hyödynmaa, N. Papanikolaou and B.K. Lind, Association of dose-mass-histogram (DMH) with the expected lung complications from breast cancer radiotherapy.


34.89. Y. Zhai, P. Mavroidis, C. Shi, J. Xu and N. Papanikolaou, Developing a new gamma evaluation index with biological information of organs. 19th ACRO Annual Meeting, Las Vegas, Nevada, USA, February 26-28, 2009

34.90. F.C. Su, C. Shi, P. Mavroidis and N. Papanikolaou, Assessment of four-dimensional radiotherapy planning and respiratory motion induced dose difference based on radiological measures. 19th ACRO Annual Meeting, Las Vegas, Nevada, USA, February 26-28, 2009

34.91. P. Mavroidis, A. Tzikas, N. Papanikolaou, S. Stathakis and B.K. Lind, Development of software for performing radiobiological studies and treatment plan optimization. 51st AAPM Annual Meeting, Anaheim, California, USA, July 26-30, 2009


34.93. B. Andisheh, P. Mavroidis, A. Brahme, M.A. Bitaraf, N. Papanikolaou and B.K. Lind, Investigating the benefits of stereotactic light ion radiation therapy for treating large intracranial AVMs. 51st AAPM Annual Meeting, Anaheim, California, USA, July 26-30, 2009


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34.100. S. Stathakis*, C. Buckey, P. Mavroidis, G. Swanson, D. Mihailidis and N. Papanikolaou, Is IMRT better than 3D conformal therapy for prostate cancer? A radiobiological comparison.
51st AAPM Annual Meeting, Anaheim, California, USA, July 26-30, 2009

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51st AAPM Annual Meeting, Anaheim, California, USA, July 26-30, 2009

34.108. P. Tynan*, S. Stathakis, P. Mavroidis and N. Papanikolaou, Comparison of Commercial 2D and 3D Devices for Patient-Specific IMRT QA. 51\textsuperscript{st} AAPM Annual Meeting, Anaheim, California, USA, July 26-30, 2009


34.110. N. Papanikolaou*, Y. Liu, T. Roland, P. Mavroidis and C. Shi, Measurements of Fiducial marker positions for real-time MLC beam tracking delivery using MV fluence video. 51\textsuperscript{st} AAPM Annual Meeting, Anaheim, California, USA, July 26-30, 2009

34.111. P. Mavroidis*, G. Soulimioti, K. Sotiriadou, N Papanikolaou and B.K. Lind, Clinical aspects of the BEUD, EUD, $D_{\text{eff}}$ and gEUD biological doses. ECCO 15 – ESMO 34\textsuperscript{th} Multidisciplinary Congress, Berlin, Germany, September 20-24, 2009


34.113. G. Soulimioti*, K. Sotiriadou, P. Mavroidis and G. Kyrgias, Radiotherapy of pituitary’s adenomas. 34\textsuperscript{th} Neuroradiology Annual Meeting, Athens, Greece, September 17-20, 2009

34.114. D. Baltas*, Z. Katsilieri, V. Kefala, S. Papaioannou, A. Karabis, P. Mavroidis and N. Zamboglou, Influence of Modulation Restriction in Inverse Optimization with HIPO of Prostate Implants on Plan Quality: Analysis using Dosimetric and Radiobiological Indices. World Congress in Medical Physics and Biomedical Engineering, Munich, Germany, September 7-12, 2009

34.115. P. Mavroidis*, B. Costa Ferreira, N. Papanikolaou, R. Svensson, B.K. Lind and A. Brahme, Radiobiological analysis of planned and delivered IMRT dose distributions. World Congress in Medical Physics and Biomedical Engineering, Munich, Germany, September 7-12, 2009

34.116. F. Su*, C. Shi, P. Mavroidis, V. Goytia, R. Crownover, P. Rassiah-Szegedi, D. Baltas and N. Papanikolaou, Evaluation on Lung Cancer Patients’ Four-dimensional Treatment Plans Utilizing Biologically Effective Uniform Dose. World Congress in Medical Physics and Biomedical Engineering, Munich, Germany, September 7-12, 2009

34.117. P. Mavroidis*, Biological Model-Based IMRT Plan Optimization.
World Congress in Medical Physics and Biomedical Engineering, Munich, Germany, September 7 – 12, 2009

34.118. **P. Mavroidis**, N. Papanikolaou and B.K. Lind, The BEUD, EUD, D_{eff} and gEUD biological doses in treatment planning. 
51st ASTRO Annual Meeting, Chicago, IL, USA, November 1-5, 2009

34.119. T. Roland, **P. Mavroidis** and N. Papanikolaou, A radiobiological assessment of the clinical improvement when tumor tracking versus conventional techniques is used for lung cancer radiotherapy. 
51st ASTRO Annual Meeting, Chicago, IL, USA, November 1-5, 2009

51st ASTRO Annual Meeting, Chicago, IL, USA, November 1-5, 2009

51st ASTRO Annual Meeting, Chicago, IL, USA, November 1-5, 2009

34.122. N. Papanikolaou, B.K. Lind, S. Stathakis, **P. Mavroidis**, Determination and clinical verification of dose-response relations from patient databases. 
51st ASTRO Annual Meeting, Chicago, IL, USA, November 1-5, 2009

51st ASTRO Annual Meeting, Chicago, IL, USA, November 1-5, 2009

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34.125. Fan-Chi Su, **P. Mavroidis** and N. Papanikolaou, The application of the radiobiological evaluation on adaptive tomotherapy for lung cancer patients. 
Proceedings in Annual RSNA Meeting, Chicago, USA, Nov. 29 - Dec. 4, 2009

XIV World Congress of Neurological Surgery, Boston, Massachusetts, USA, Aug. 30 – Sept. 4, 2009


34.140. S. Stathakis*, P. Mavroidis, C. Buckey, G. Swanson, A. Gutierrez, C. Esquivel, N. Papanikolaou, IMRT vs. 3D conformal therapy for prostate cancer. A radiobiological comparison.

SWAAPM Spring Meeting, San Antonio, Texas, USA, March 26 – 28, 2009

34.142. S. Rodriguez, P. Mavroidis and N. Papanikolaou, Comparison of Helical Tomotherapy, MLC-based IMRT, and 3D-Conformal radiation modalities in BEUD utilization and analysis.
SWAAPM Spring Meeting, San Antonio, Texas, USA, March 26 – 28, 2009

34.143. P. Mavroidis, B.K. Lind, B. Andisheh, A. Brahme, Determination of dose-response relations for AVM obliteration after treatment with gamma knife.
15th International Meeting of the Leksell Gamma Knife Society, Athens, Greece, May 16-20, 2010

15th International Meeting of the Leksell Gamma Knife Society, Athens, Greece, May 16-20, 2010

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15th International Meeting of the Leksell Gamma Knife Society, Athens, Greece, May 16-20, 2010

29th ESTRO Annual Meeting, Barcelona, Spain, September 12-16, 2010

34.148. B. Andisheh, M. Edgren, P. Mavroidis, A. Brahme, B.K. Lind, Evaluation of different models for stereotactic high dose body radiotherapy.
29th ESTRO Annual Meeting, Barcelona, Spain, September 12-16, 2010


34.154. P. Mavroidis, B.C. Ferreira, M.C. Lopes, The use of probability volume histograms (PVH) and iso-probability of response charts in treatment plan evaluation. 29th ESTRO Annual Meeting, Barcelona, Spain, September 12-16, 2010

34.155. P. Mavroidis, G. Lymperopoulou, E. Löffler, D. Baltas, Investigating the influence of dose and dose rate in the effectiveness of permanent implant brachytherapy of breast using $^{125}$I or $^{103}$Pd sources. 29th ESTRO Annual Meeting, Barcelona, Spain, September 12-16, 2010


52nd AAPM Annual Meeting, Philadelphia, Pennsylvania, USA, July 18-22, 2010

52nd AAPM Annual Meeting, Philadelphia, Pennsylvania, USA, July 18-22, 2010

34.161. Y. Lei, P. Mavroidis, C. Buckey, N. Papanikolaou, Do Stricter IMRT Planning Constraints Produce Better Radiobiological Results?.
52nd AAPM Annual Meeting, Philadelphia, Pennsylvania, USA, July 18-22, 2010

34.162. C. Buckey, S. Stathakis, D. Mihailidis, P. Mavroidis, N. Papanikolaou, Effective MLC Leaf Width for RapidArc Plans: Can Coarse Resolution Give Fine Results?
52nd AAPM Annual Meeting, Philadelphia, Pennsylvania, USA, July 18-22, 2010

52nd AAPM Annual Meeting, Philadelphia, Pennsylvania, USA, July 18-22, 2010

34.164. S. Stathakis, D. Mihailidis, C. Esquivel, A. Gutiérrez, P. Mavroidis, C. Shi, N. Papanikolaou, Monte Carlo Commissioning of BrainLab SRS Cones On a NovalisTX.
52nd AAPM Annual Meeting, Philadelphia, Pennsylvania, USA, July 18-22, 2010

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52nd AAPM Annual Meeting, Philadelphia, Pennsylvania, USA, July 18-22, 2010

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52nd AAPM Annual Meeting, Philadelphia, Pennsylvania, USA, July 18-22, 2010

34.171. B.C. Ferreira, P. Mavroidis and M.C. Lopes, Response-probability charts and response-probability volume histograms for RT treatment plan evaluation.
18th International Conference in Medical Physics, Porto Alegre, Brazil, April 17-20, 2011


34.177. N. Papanikolaou, C. Knaup, P. Mavroidis, Sensitivity of Calculated Tumor Control on Choice of Biological Parameters for LDR Prostate Implants. ESTRO Anniversary Congress, London, United Kingdom, May 8-12, 2011


ESTRO Anniversary Congress, London, United Kingdom, May 8-12, 2011


Joint AAPM / COMP Meeting, Vancouver July 31 – August 4, 2011


Joint AAPM / COMP Meeting, Vancouver July 31 – August 4, 2011


Joint AAPM / COMP Meeting, Vancouver July 31 – August 4, 2011

34.187. C. Knaup, **P. Mavroidis**, S. Stathakis, G. Swanson, N. Papanikolaou, Sensitivity of tumor control probability to changes in radiobiological parameters.

Joint AAPM / COMP Meeting, Vancouver July 31 – August 4, 2011

34.188. N. Papanikolaou, G. Beck, J. Peyton, A. Gutiérrez, C. Esquivel, **P. Mavroidis**, S. Stathakis, A Web based tool for the implementation of routine linac QA following TG142.

Joint AAPM / COMP Meeting, Vancouver July 31 – August 4, 2011


Joint AAPM / COMP Meeting, Vancouver July 31 – August 4, 2011


Joint AAPM / COMP Meeting, Vancouver July 31 – August 4, 2011


Joint AAPM / COMP Meeting, Vancouver July 31 – August 4, 2011

34.192. T. Zalman, S. Stathakis, C. Esquivel, A. Gutiérrez, D. Mihailidis, **P. Mavroidis**, N. Papanikolaou, Investigation of dose reconstruction using the dosimetry check platform for different anatomical sites.

Joint AAPM / COMP Meeting, Vancouver July 31 – August 4, 2011

34.193. C. Buckey, P. Myers, **P. Mavroidis**, C. Esquivel, D. Mihailidis, A. Gutiérrez, N. Papanikolaou, S. Stathakis, Application of a 2D ionization chamber array for monthly and annual linear accelerator QA.

Joint AAPM / COMP Meeting, Vancouver July 31 – August 4, 2011


34.200. C. Knaup, **P. Mavroidis**, C. Esquivel, G. Swanson, N. Papanikolaou, Radiobiologically based treatment plan evaluation for prostate seed implant. Joint AAPM / COMP Meeting, Vancouver July 31 – August 4, 2011

34.201. T. Roland, E. Tryggestad, **P. Mavroidis**, R. Hales, N. Papanikolaou, Application of the radiobiological $P_+\alpha$ index as a modality discriminator for mobile tumor radiotherapy - A preliminary study involving 4DCT volumes of 18 lung cancer patients. 53rd ASTRO Annual Meeting, Miami, Florida, USA, October 2 – 6, 2011


CV – Panayiotis Mavroidis, Ph.D.

54th AAPM Annual Meeting, Carlotte, NC, July 29 – August 2, 2012


34.222. S. Stathakis, P. Mavroidis, C. Esquivel, P. Myers, Y. Li, R. Crownover, N. Papanikolaou, Small Field SRS/SBRT Patient Specific QA at Extended SSD.
55th AAPM Annual Meeting, Indianapolis, Indiana, August 4-8, 2013

34.223. S. Stathakis, **P. Mavroidis**, M. Markovic, C. Esquivel, P. Myers, R. Crownover, Y. Li, N. Papanikolaou,  
SRT/SBRT Patient Specific QA with a New High Resolution 2D Detector Array.  
55th AAPM Annual Meeting, Indianapolis, Indiana, August 4-8, 2013

34.224. I. Jurkovic, **P. Mavroidis**, S. Stathakis, C. Esquivel, V. Chyle, N. Papanikolaou,  
Evaluation of the Performance of the Segmentation Methods Used in the CMS XiO Step And Shoot IMRT.  
55th AAPM Annual Meeting, Indianapolis, Indiana, August 4-8, 2013

34.225. J. Briceno, R. McKinsey, C. Esquivel, **P. Mavroidis**, N. Papanikolaou, S. Stathakis,  
Patient Specific IMRT QA Analysis Comparison of Four Commercially Available Systems.  
55th AAPM Annual Meeting, Indianapolis, Indiana, August 4-8, 2013

Comparison of Different Commercial MU Verification Software in Terms of Accuracy and Performance.  
55th AAPM Annual Meeting, Indianapolis, Indiana, August 4-8, 2013

34.227. B. Tuazon, C. Esquivel, T. Biggers, **P. Mavroidis**, S. Stathakis, T. Eng, N. Papanikolaou,  
Radiobiological Evaluation of the Inter Fractional Variations in Cervical Cancer Treatments with HDR Brachytherapy.  
55th AAPM Annual Meeting, Indianapolis, Indiana, August 4-8, 2013

34.228. C. Esquivel, **P. Mavroidis**, S. Stathakis, J. Choi, T. Eng, N. Papanikolaou,  
Radiobiological Evaluation of the Inter Fractional Organ Deformations in Cervical Cancer Treatments with HDR Brachytherapy.  
55th AAPM Annual Meeting, Indianapolis, Indiana, August 4-8, 2013

34.229. W. Cruz, **P. Mavroidis**, N. Milickovic, A. Karabis, S. Stathakis, N. Papanikolaou, N. Zamboglou, D. Baltas,  
Sensitivity Analysis of the Radiobiological Parameters Used to Examine the Effectiveness of Different Fractionation Schedules in Prostate Cancer HDR Brachytherapy.  
55th AAPM Annual Meeting, Indianapolis, Indiana, August 4-8, 2013

34.230. I. Jurkovic, **P. Mavroidis**, S. Stathakis, C. Esquivel, Y. Li, N. Papanikolaou,  
55th AAPM Annual Meeting, Indianapolis, Indiana, August 4-8, 2013


34.240. B. Andisheh, D. Belkić, P. Mavroidis, A. Brahme, B.K. Lind Improving the therapeutic ratio in stereotactic radiosurgery: optimizing treatment protocols based on kinetics of repair of sublethal radiation damage. 11th ISRS Congress, Toronto, Canada, June 16-20, 2013


34.244. G. Narayanasamy, W. Cruz, C. Breton, A. Gutierrez, P. Mavroidis, N. Papanikolaou, S. Stathakis Comparison of Measured Tissue Phantom Ratios (TPR) Against Calculated From Percent Depth Doses (PDD) with and Without Peak Scatter Factor (PSF) in 6MV Open Beam. 56th AAPM Annual Meeting, Austin, Texas, July 20-24, 2014


34.248. K. Kauveloa, A. Gutierrez, A. Bergamo, S. Stathakis, N. Papanikolaou, **P. Mavroidis**
Clinical Analysis of the Approximate Multi-Phase Biological Effective Dose (BED) Calculation.
56th AAPM Annual Meeting, Austin, Texas, July 20-24, 2014

34.249. C. Peixoto Xavier, B. Costa Ferreira, L. Khouri, M. Lopes, S. Stathakis, N. Papanikolaou, **P. Mavroidis**
Dosimetric Assessment of the Salivary Glands in Head and Neck Tumour Patients Treated with Radiation Therapy.
56th AAPM Annual Meeting, Austin, Texas, July 20-24, 2014

Determination of the Radiobiological Parameters That Describe the Dose-Response Relations of Xerostomia and Disgeusia From Head and Neck Radiotherapy.
56th AAPM Annual Meeting, Austin, Texas, July 20-24, 2014

34.251. I. Jurkovic, S. Stathakis, Y. Li, A. Patel, J. Vincent, N. Papanikolaou, **P. Mavroidis**
Evaluation of the Optimal Intensity Modulated Radiation Therapy Plans Done On the Maximum and Average Intensity Projection CTs.
56th AAPM Annual Meeting, Austin, Texas, July 20-24, 2014

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34.253. I. Jurkovic, S. Stathakis, Y. Li, A. Patel, J. Vincent, N. Papanikolaou, **P. Mavroidis**
Internal Tumor Volume Motion and Volume Size Assessment Using 4D CT Lung Data.
56th AAPM Annual Meeting, Austin, Texas, July 20-24, 2014

34.254. P. Papanikolaou, R. Tuohy, **P. Mavroidis**, T. Eng, A. Gutierrez, S. Stathakis
Appropriateness Criteria for Deformable Image Registration and Dose Propagation.
56th AAPM Annual Meeting, Austin, Texas, July 20-24, 2014

34.255. R. Tuohy, S. Stathakis, **P. Mavroidis**, C. Bosse, N. Papanikolaou
Comparison of Two Commercially Available Software Platforms for Deformable Image Registration.
56th AAPM Annual Meeting, Austin, Texas, July 20-24, 2014

34.256. R. Tuohy, C. Bosse, **P. Mavroidis**, Z. Shi, R. Crownover, N. Papanikolaou, S. Stathakis
Comparison of Two Commercially Available Programs for the Evaluation of Delivered Daily Dose Using Cone Beam CT (CBCT).
56th AAPM Annual Meeting, Austin, Texas, July 20-24, 2014

34.257. D. Defoor, L. Vazquez Quino, S. Stathakis, **P. Mavroidis**, N. Papanikolaou
On the Evaluation of Patient Specific IMRT QA Using EPID, Dynalog Files and Patient Anatomy.
56th AAPM Annual Meeting, Austin, Texas, July 20-24, 2014
34.258. C. Bosse, R. Tuohy, **P. Mavroidis**, Z. Shi, R. Crownover, N. Papanikolaou, S. Stathakis
Daily Fraction Dose Recalculation Based On Rigid Registration Using Cone Beam CT.
*56th AAPM Annual Meeting*, Austin, Texas, July 20-24, 2014

34.259. D. Defoor, S. Stathakis, **P. Mavroidis**, N. Papanikolaou
Evaluation of Patient Specific VMAT QA Using Dynalog Files and Treatment Planning System.
*56th AAPM Annual Meeting*, Austin, Texas, July 20-24, 2014

34.260. D. Defoor, **P. Mavroidis**, L. Vazquez Quino, A. Gutierrez, N. Papanikolaou, S. Stathakis,
On the evaluation of patient specific IMRT QA using EPID, Dynalog Files and patient anatomy.
*56th ASTRO Annual Meeting*, San Francisco, California, Sept. 14-17, 2014

34.261. A. Bergamo, K. Kaweloa, A. Patel, **P. Mavroidis**, N. Papanikolaou, S. Stathakis, A. Gutierrez,
Hypofractionated Liver Stereotactic Body Radiation Therapy: Biological Effective Dose Correlated Radiation Induced Liver Disease.
*56th ASTRO Annual Meeting*, San Francisco, California, Sept. 14-17, 2014

34.262. R. Tuohy, C. Bosse, **P. Mavroidis**, Z. Shi, R. Crownover, N. Papanikolaou, S. Stathakis,
Strategies for evaluation of daily delivered dose using CBCT.
*56th ASTRO Annual Meeting*, San Francisco, California, Sept. 14-17, 2014

### 35. Presentations in National Conferences – Abstracts


35.2. S. Paschou, A. Pavlidis, E. Soga, P. Georgoulias, **P. Mavroidis**, Operation Principles of PET SCANNER and Clinical Applications

35.3. I. Tsougos, **P. Mavroidis**, K. Theodorou, K. Kappas, Radiobiological approach of radiation pneumonitis in breast cancer radiotherapy
*Proceedings of the 1rst Hellenic Conference of Basic Medical Sciences*, Athens, December 7-10, 2005, pp. PO33


35.5. **P. Mavroidis**, B.C. Ferreira, M. Delichas, G. Soulimioti, Chengyu Shi, Bengt K. Lind, N. Papanikolaou, Use of radiobiological parameters for comparing the effectiveness of Helical Tomotherapy and MLC-based IMRT.


Nikiforidis, S. Johansson, I. Turesson, B.K. Lind, Clinically determined dose-response relation for rectum and penile bulb after combined radiotherapy of photons and protons for prostate cancer.
Proceedings of the 16th Hellenic Congress in Clinical Oncology, Athens, April 22-25, 2010

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Proceedings of the 3rd Cypriot-Hellenic Congress in Radiology, Lemesos, Cyprus, May 1-2, 2010

Proceedings of the 10th Hellenic Congress in Radiation Oncology, Pylos, May 27-30, 2010


35.30. N. Boci, **P. Mavroidis**, G. Oikonomou, M. Vlychou, K. Vasiou, S. Stathakis, E. Lavdas. Is there any possibility the susceptibility artifacts to be reduced by increasing the bandwidth (BW) and echo train length (ETL)? Proceedings of the 2nd International Conference on Bio-Medical Instrumentation, Athens, June 21-22, 2013