

Grace Gwe-Ya Kim, Ph.D., DABR

Associate Professor
Department of Radiation Medicine and Applied Sciences
UC San Diego School of Medicine
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EMPLOYMENT

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| July 2016 – Present | Associate Professor & Associate Division Director
Department of Radiation Medicine and Applied Sciences
UC San Diego School of Medicine, La Jolla, CA |
| Mar 2011 – July 2016 | Adjunct Professor
Medical Physics Master Program
San Diego State University, CA |
| Nov 2010 – Jun 2016 | Assistant Professor
Department of Radiation Medicine and Applied Sciences
UC San Diego School of Medicine, La Jolla, CA |
| Apr 2009 – Oct 2010 | Medical Physicist
Radiation Oncology Department
UC San Diego Medical Center, La Jolla, CA |
| Jan 2007 – Mar 2009 | Medical Physicist
Physics Department
Austin Cancer Center, Austin, TX |
| Nov 2004 – Feb 2006 | Postdoctoral Fellow
Stanford University School of Medicine
Department of Radiation Oncology, Stanford, CA |
| Apr 1997 – Nov 2004 | Scientific Officer
Radiation Standards Division
Medical Devices and Radiation Health Department
Korea Food & Drug Administration, Seoul, Korea |

EDUCATION

- 1995 - 2001 **Doctor of Philosophy**
Physical Chemistry
Yonsei University, Seoul, Korea
- 1992 - 1994 **Master of Science,**
Physical Chemistry
Yonsei University, Seoul, Korea
- 1988 - 1992 **Bachelor of Science**
Chemistry
Yonsei University, Wonju, Korea

CERTIFICATIONS

- 2011 **American Board of Radiology,**
Therapeutic Radiologic Physics

GRANTS & AWARDS

- Mar 1996 **Student Award**
Dawoo Foundation, Korea
- Dec 2000 **Superior research of the year**
Korea Food & Drug Administration, Korea
- Dec 2001 **Meritorious Award**
Minister of Korea Commerce Industry & Energy, Korea

FELLOWSHIP

- Nov 2004 **Stanford University School of Medicine**
(Imaged-guided radiation therapy technique)
- May 2004 **National Physical Laboratory in Teddington,UK**
(Field of QA for radioactivity measurement in nuclear medicine)

Mar 2000 **IAEA Laboratory in Seibersdorf, Austria**
(Field of study: calibration of Ionization chamber,
TLD quality assurance, calibration of brachytherapy sources)

WORKING EXPERIENCES

Administrative

- Apr 2016 – present **Associate Division Director**
Department of Radiation Medicine and Applied Sciences
UC San Diego School of Medicine
La Jolla, CA
- Apr 2011 – Apr 2012 **Associate Chief of Clinical Physics**
Radiation Oncology Department
UC San Diego Medical Center
La Jolla, CA
- Mar 2008 – Feb 2009 **Acting Chief Physicist**
Physics Department
Austin Cancer Center
Austin, TX
- Apr 1997 – Nov 2004 **Scientific Officer**
Radiation Standards Division
Medical Devices and Radiation Health Department
Korea Food & Drug Administration
Seoul, Korea

Teaching

- Sep 2009 - Present Physics Residency program
UC San Diego, CA
- Mar 2011 – July 2016 Medical Physics Master Program
San Diego State University, CA
- Sep 1992 - Feb 1997 Graduate Teaching Assistant
Yonsei University, Seoul, Korea

Invited National/International Presentation

Aug., 03, 2016	Moderator & Instructor AAPM Annual Meeting (TG-100 certification course)
Sep., 24, 2015	Instructor Risk assessment seminar, Seoul, Korea
Jul., 15, 2015	Moderator & Instructor AAPM Annual Meeting (SAM-Radiosurgery)
Feb., 12, 2015	Co-Organizer & Instructor AAPM Incident Learning System and RCA Workshop
Oct., 30, 2014	Instructor University of California, Irvine, CA
Jul., 23, 2014	Instructor AAPM Annual Meeting (SAM-Radiosurgery)
Jul., 19, 2014	Instructor Varian User Meeting (AAPM)
Jun., 19, 2014	Instructor FMEA Seminar, Seoul, Korea
May, 08, 2014	Instructor Radiosurgery Society Meeting, Minneapolis, MN
Mar, 01, 2014	Instructor Advanced Radiotherapy Techniques, Chandigarh, India
Oct., 19, 2013	Instructor AMC Physics/Dosimetry Symposium, Seoul, Korea
Oct., 18, 2013	Instructor Varian User Meeting, SNUH, Seoul, Korea
Sep., 21, 2013	Instructor Varian User Meeting (ASTRO)
Aug., 5, 2013	Instructor AAPM Annual Meeting (SAM-Surface Image)
May., 24, 2013	Instructor KSMP Training Course, Seoul, Korea
Mar., 23, 2013	Instructor KIRAM SSDL Seminar, Seoul, Korea
Jul., 30, 2012	Instructor AAPM Annual Meeting
Feb., 23, 2011	Instructor Emerging Technologies Clinical Forum

Jul., 18, 2010	Instructor Dosimetry Check User Meeting at 2010 AAPM, Philadelphia, PA
Jan., 29, 2010	Instructor AAPM-SCC Midwinter Symposium
Nov., 21, 2005	Instructor KFDA/UNDP 2005 Radiotherapy QA Workshop
Apr., 29, 2005	Instructor Short Course on Image Guided Radiotherapy Stanford University, Stanford CA
Nov., 26, 2001	Instructor International Conference on Medical Physics& Radiation Safety

Professional Societies

2007 - present	American Association of Physicists in Medicine
2007 - present	American Society for Therapeutic Radiology and Oncology
1997 - 2004	Korean Association for Radiation Protection
1997 - present	Korean Society of Medical Physics

Reviewer: Scientific Journals

2009 - present	Radiotherapy and Oncology
2012 - present	Medical Physics
2012 – present	Physics in Medicine and Biology
2012 – present	Practical Radiation Oncology

Conference Abstract Reviewer

2013	55 th AAPM Annual Meeting, Indianapolis, IN
2014	56 th AAPM Annual Meeting, Austin, TX
2015	57 th AAPM Annual Meeting, Anaheim, CA
2016	58 th AAPM Annual Meeting, Washington DC

Conference/Session Moderator

2014	SRT 1: Comparison of SRT Techniques (Session Organizer & Moderator)
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- 2015 SBRT and SRS (Moderator)
56th AAPM Annual Meeting, Austin, TX
Stereotactic Radiosurgery (Session Organizer & Moderator)
Patient Specific QA (Moderator)
57th AAPM Annual Meeting, Anaheim, CA
- 2016 Experience with TG100 (Session Organizer & Moderator)
Performance Assessment Safety and QA (Moderator)
58th AAPM Annual Meeting, Washington DC

Committees

- 2011 - Present American College of Radiation Oncology (ACRO)
Accreditation - Member
- 2013 – Present American Association of Physicists in Medicine (AAPM)
Calibration Laboratory Accreditation Executive committee -
Member
- 2012 – Present American Association of Physicists in Medicine (AAPM)
Calibration Laboratory Accreditation Subcommittee - Member
- 2012 – Present American Association of Physicists in Medicine (AAPM)
Working Group on Prevention of Errors in Radiation Oncology
- Vice Chair
- 2014 – Present American Association of Physicists in Medicine (AAPM)
Task Group 262 (Electronic Charting of Radiation Therapy
Planning and Treatment) - Member
- 2015 – Present American Association of Physicists in Medicine (AAPM)
Asian Oceanic Affairs Subcommittee - Member
- 2015 – Present American Association of Physicists in Medicine (AAPM)
Task Group 275 (Strategies for Effective Physics Plan and Chart
Review in Radiation Therapy) - Member
- 2015 – Present American Association of Physicists in Medicine (AAPM)
Working Group on RO-ILS - Member

STUDENTS

- Sep 2009 - Jun 2010 **Mentor**, Medical Physics Resident
Erica Kinsey, PhD, UC San Diego, Department of Radiation
Oncology, La Jolla, CA

- Jul 2009 – Jun 2011 **Mentor**, Medical Physics Resident
Nicole Detorie, PhD, UC San Diego, Department of
Radiation Oncology,
La Jolla, CA
- Jul 2010 – Jun 2012 **Mentor**, Medical Physics Resident
Irena Dragojevic, PhD, UC San Diego, Department of
Radiation Oncology, La Jolla, CA
- Jul 2010 – Jun 2012 **Co-advisor & Thesis Committee**, MS Candidate
Brittany Cochran, MS, San Diego State University,
Department of Physics, San Diego, CA
- Jul 2010 – Jun 2012 **Mentor & Thesis Committee**, MS Candidate
Megan Grevenow, MS, San Diego State University,
Department of Physics, San Diego, CA
- Jul 2011 – Jun 2013 **Co-advisor & Thesis Committee**, MS Candidate
Chelsea Pearson, MS, San Diego State University,
Department of Physics, San Diego, CA
- Jul 2011 – Jun 2013 **Mentor**, Medical Physics Resident
Jeremy Hoisak, PhD, UC San Diego, Department of
Radiation Medicine and Applied Sciences, La Jolla, CA
- Jul 2012 – Jun 2014 **Mentor**, Medical Physics Resident
Adam Paxton, PhD, UC San Diego, Department of
Radiation Medicine and Applied Sciences, La Jolla, CA
- Jul 2013 – Jun 2015 **Mentor**, Medical Physics Resident
Ryan Manger, PhD, UC San Diego, Department of
Radiation Medicine and Applied Sciences, La Jolla, CA
- Jul 2014 – Jun 2015 **Mentor**, Medical Physics Resident
Adam Paxton, PhD, UC San Diego, Department of
Radiation Medicine and Applied Sciences, La Jolla, CA

PEER-REVIEWED PUBLICATIONS

1. S. H. Lee and **G. Y. Kim**: Catalytic conversion of methane to higher hydrocarbons over strontium - incorporated neodymium oxide, Bull. Korean Chem. Soc., Vol. **16**, No. 8, 778-781 (1995)
2. **G. Y. Kim**, K. S. Roh and C. H. Yo : Structural and magnetic properties of the brownmillerite $\text{Ca}_2\text{Al}_x\text{Fe}_{2-x}\text{O}_5$ system, Bull. Korean Chem. Soc., Vol. **16**, No. 10, 934-938 (1995)
3. S. J. Lee, **G. Y. Kim**, E. J. Oh, K. H. Kim and C. H. Yo : Synthesis and characterization of the layered K_2NiF_4 type $(\text{C}_n\text{H}_{2n+1}\text{NH}_3)_2\text{PbCl}_4$ system, Bull. Korean Chem. Soc., Vol. **21**, No. 3, 317-320 (2000)
4. **G. Y. Kim**, H. K. Lee, H. K. Jeong, M. J. Woods : Comparison of radioactivity measurement with radionuclide calibrators in Republic of Korea, Applied Radiation and Isotopes **63**(2), 201-205 (2005)
5. L. Xing, B. Thorndyke, E. Schreibmann, T. Li, Y. Yang, **G. Kim**, G. Luxton, A. Koong, Overview of image guided radiation therapy (IGRT), Medical Dosimetry **31**, 91-112, 2006.
6. Jeong Eun Rah, Ju Young Hong, Gwe Ya Kim, Chunil Lim, Hee Kyo Jeong, Dong Oh Shin, and Tea Suk Suh, Evaluation of the long-term stability for the cylindrical ionization chambers, Journal of the Korean Society for Therapeutic Radiology and Oncology, **24**(2), 138-143, 2006.
7. S. Yoo, **G. Kim**, R. Hammoud, E. Elder, T. Pawlicki, H. Guan, T. Fox, G. Luxton, F. Yin, P. Munro : Quality Assurance of the On-Board Imager and one-Beam Computed Tomography Systems, Medical Physics **33**(11), 4431-4447, 2006
8. T. Pawlicki, **G. Y. Kim**, A. Hsu, C. Cotruz, A. L. Boyer, L. Xing, C. R. King, G. Luxton, Investigation of Linac-based Image-guided Hypofractionated Prostate Radiotherapy, Medical Dosimetry (invited review), **32**(2), 71-79, 2007.
9. **Gwe-Ya Kim**, Todd Pawlicki, Quynh-Thu Le, Gary Luxton : Patient localization with linac-based on-board imaging for head and neck IMRT, Medical Dosimetry **33**(1), 93-99, 2008.
10. Jeong-Eun Rah, Ju-Young Hong, **Gwe-Ya Kim**, Yon-Lae Kim, Dong-Oh Shin, Tae-Suk Suh, A comparison of the dosimetric characteristics of a

glass rod dosimeter and a thermoluminescent dosimeter for mailed dosimeter, *Radiation Measurements*, **44**, 18-22, 2009.

11. B. Aydogan, M. Yeginer, G. Kavak, J. Fan, J. Radosevich, **G Kim**: Total Marrow Irradiation with RapidArc Volumetric Arc Therapy, *Int. J. Radiation Oncology Biol. Phys.* Vol **81**(2), 592-599, 2011
12. Kevin I. Kauwelo, Dan Ruan, Justin C. Park, Ajay Sandhu, **Gwe Ya Kim**, Todd Pawlicki, W. Tyler Watkins, Bongyong Song, and William Y. Song: FateCT™ Surface tracking system for respiratory signal reconstruction in 4DCT imaging, *Med. Phys.* 39, 492-501, 2012
13. Yun Liang, **Gwe-Ya Kim**, Todd Pawlicki, Arno J. Mundt, and Loren K. Mell: Feasibility study on Dosimetry verification of volumetric-modulated arc therapy-based total marrow irradiation, *Journal of Applied clinical medical Physics*, Vol. 14, No. 2, 15-23, 2013.
14. Taweap Sanghangthum, Sivalee Suriyapee, **Gwe-Ya Kim** and Todd Pawlicki, A method of setting limits for the purpose of quality assurance, *Phys. Med. Biol.* **58**, 7025-7037, 2013.
15. Jeremy D. P. Hoisak, Todd Pawlicki, **Gwe-Ya Kim**, Richard Fletcher, Kevin L. Moore: Improving linear accelerator service response with a real-time electronic event reporting system, *Journal of Applied clinical medical Physics*, Vol. 15, No. 5, 257-264, 2014
16. Anthony J. Paravati, Ryan Manger, Jasmine D. Nguyen, Sofia Olivares, **Gwe-Ya Kim**, Kevin T. Murphy: Initial clinical experience with surface image guided (SIG) radiosurgery for trigeminal neuralgia, *Translational Cancer Research*, **3**(4), 333-337, 2014
17. Nhat-Long L. Pham, Pranav V. Reddy, James D. Murphy, Parag Sanghvi, Jona A. Hattangadi-Gluth, **Grace Gwe-Ya Kim**, Laura Cervino, Todd Pawlicki, Kevin T. Murphy: Frameless, real-time, surface imaging-guided radiosurgery update on clinical outcomes for brain metastases, *Translational Cancer Research*, **3**(4), 351-357, 2014
18. Steven K. M. Lau, Xiao Zhao, Ruben Carmona, Erik Knipprath, Daniel R. Simpson, Sameer K. Nath, **Gwe-Ya Kim**, Jona A. Hattangadi, Clark C. Chen, Kevin T. Murphy: Frameless single-isocenter intensity modulated stereotactic radiosurgery for simultaneous treatment of multiple intracranial metastases, *Translational Cancer Research*, **3**(4), 383-390, 2014

19. Jeong-Eun Rah, Dongho Shin, Do Hoon Oh, Tae Hyun Kim, and **Gwe-Ya Kim**: Feasibility study of using statistical process control to customized quality assurance in proton therapy, *Medical Physics* **41(9)**, 092105, 2014
20. Douglas A. Rahn, **Gwe-Ya Kim**, Arno J. Mundt, and Todd Pawlicki: A Real-Time Safety and Quality Reporting System: Assessment of Clinical Data and Staff Participation, *Int. J. Radiation Oncology Biol. Phys.* **90(5)**, 1202-1207, 2014
21. Ryan P. Manger, Adam B. Paxton, Todd Pawlicki and **Gwe-Ya Kim**: Failure mode and effects analysis and fault tree analysis of surface image guided cranial radiosurgery, *Medical Physics* **42**, 2449, 2015
22. Steven K. M. Lau, Kaveh Zakeri, Xiao Zhao, Ruben Carmona, Erik Knipprath, Daniel R. Simpson, Sameer K. Nath, **Gwe-Ya Kim**, Parag Sanghvi, Jona A. Hattangadi, Clark C. Chen, Kevin T. Murphy: Single-isocenter framless volumetric modulated arc radiosurgery for multiple intracranial metastases, *Neurosurgery* **77(2)**, 233-240, 2015
23. Tobias Eckhaus, Hania Al-Hallaq, Timothy Ritter, John DeMarco, Karl Farrey, Todd Pawlicki, **Gwe-Ya Kim**, Richard Popple, Vijeshwar Sharma, Mario Perez, SungYong Park, Jeremy Booth, Ryan Thorwarth, and Jean M. Moran, Automating Linear Accelerator Quality Assurance. *Medical Physics*, **42**, 6074, 2015
24. Todd Pawlicki, Aubrey Samost, Derek W. Brown, Ryan P. Manger, **Gwe-Ya Kim**, and Nancy G. Leveson: Application of systems and control theory-based hazard analysis to radiation oncology, *Medical Physics* **43**, 1514, 2016
25. Tyler M. Seibert, Nathan S. White, **Gwe-Ya Kim**, Vitali Moiseenko, Carrie R. McDonald, Nikdokht Farid, Hauke Bartsch, Joshua Kuperman, Roshan Karunamuni, Deborah Marshall, Dominic Holland, Parag Sanghvi, Daniel R. Simpson, Arno J. Mundt, Anders M. Dale, Jona A. Hattangadi-Gluth, Distortion inherent to magnetic resonance imaging can lead to geometric miss in radiosurgery planning, *Practical Radiation Oncology*, Jun 1, 2016
26. Adam D. York, Todd Pawlicki, and **Gwe-Ya Kim**, Prospective treatment plan-specific action limits for real-time intrafractional monitoring in surface image guided radiosurgery, *Medical Physics*, **43**, 4342, 2016

27. Jeong-Eun Rah , Ryan P. Manger , Adam D. Yock , **Gwe-Ya Kim**, A comparison of two prospective risk analysis methods: traditional FMEA and a modified Healthcare FMEA, Medical Physics, (accepted)
28. Jeong-Eun Rah , **Gwe-Ya Kim**, Do Hoon Oh, Tae Hyun Kim, Jong Won Kim, Dae Yong Kim, Sung Yong Park, Dongho Shin, A Treatment Planning Study of Proton Arc Therapy for Para-Aortic Lymph Node Tumors: Dosimetric Evaluation of Conventional Proton Therapy, Proton Arc Therapy, and Intensity Modulated Radiotherapy, Radiation Oncology, (accepted)

NON PEER-REVIEWED PUBLICATIONS

1. W. B. Pyun, H. J. Oh, H. K. Lee, **G. Y. Kim**, J. H. Kim, J. W. Nam and H. Y. Lee : The Study on quality control for absorbed dose measurement in radiation therapy(II), The annual report of Korea Food & Drug Administration, 301-305 (1997)
2. W. B. Pyun, H. J. Oh, H. K. Lee, **G. Y. Kim** and H. Y. Lee : Study on characteristics of X reference radiations for calibrating dosimeters, The annual report of Korea Food & Drug Administration, 305-312 (1998)
3. H. J. Oh, H. K. Lee and **G. Y. Kim** : Establishment of the reference beta radiation for calibration, The annual report of Korea Food & Drug Administration, 388-397 (1999)
4. H. J. Oh, **G. Y. Kim**, H. K. Lee, S. H. Jung, H. K. Yang, S. K. Lee and J. W. Nam: Dosimetry for using the Fricke Solution, The annual report of Korea Food & Drug Administration, 311-315 (2000)
5. H. J. Oh, H. K. Lee, **G. Y. Kim**, S. H. Jung and C. K. Hahm : Study on X reference radiation for calibrating dosimeters used in diagnostic radiology, The annual report of Korea Food & Drug Administration, 607-613 (2000)
6. **G. Y. Kim** : The structure and thermoluminescence characteristics of CVD diamond film, Doctoral Thesis, Univ. of Yonsei (2001)
7. **G. Y. Kim**: The reasons of deviation in radiotherapy centers, Radiation health newsletter, KFDA, Vol. 27, 1-5 (2002)

ABSTRACTS & PROCEEDINGS

1. W. B. Pyun, **G. Y. Kim**, H. J. Oh and H. Y. Lee: The Study on quality control for absorbed dose measurement in radiation therapy, Proceeding of the Korea Association for Radiation Protection Meeting, November, 51-55 (1998)
2. W. B. Pyun, **G. Y. Kim**, H. J. Oh and H. Y. Lee: A Dosimetry based on new standard of absorbed dose to water, Proceeding of the Korea Association for Radiation Protection Meeting, Seoul, Korea, November, 159-163 (1999)
3. **G. Y. Kim**, H. J. Oh, and W. B. Pyun : A Quality Assurance Program for Radiotherapy Centers in Korea, Proceedings of a World Congress on Medical Physics and Biomedical Engineering, Chicago, 23-28 July (2000)
4. **G. Y. Kim** : Quality Audit Programme in Korea, Proceeding of the International Conference on Medical Physics & Radiation Safety(ICMP-2K1), Mumbai, India, November, 121 (2001)
5. **G. Y. Kim**, H. J. Oh, W. B. Pyun and J. K. Kim : A Quality Assurance Program for Radiotherapy Centers of KFAD, Proceeding of the Korea Association for Radiation Protection Meeting, Seoul, Korea, November, 79-84 (2001)
6. S. H. Jung, **G. Y. Kim**, J. E. Rah, K. J. Park and H. J. Oh : Intercomparison of calibration factors based on N_K and $N_{D,W}$ standard protocol, Proceeding of the Korea Association for Radiation Protection Meeting, Seoul, Korea, April, 56-60 (2001)
7. **G. Y. Kim**, H. J. Oh : The National Quality Audit using TLD Postal Dose Intercomparison, Proceeding of the Korea Society of Medical Physics, Cheju, Korea, April, 64 (2001)
8. **G. Y. Kim**, H. K. Lee, K. J. Park, H. J. Oh, "A quality assurance program for radiotherapy centers in the republic of Korea", Proceedings of International Symposium on Standards and Codes of Practice in Medical Radiation Dosimetry, Vienna, Austria, 25-28 November (2002)
9. **G. Y. Kim**, H. K. Lee, C. I. Lim, H. K. Yang, J. E. Rah, H. J. Kim, K. J. Park, H. K. Jeong : Comparison result of I-131 in nuclear medicine, Proceeding of the Korea Association for Radiation Protection Meeting, Daejeon, 6-7 November (2003)

10. **G. Y. Kim**, H. J. Kim, K. J. Park, J. E. Rah, H. K. Jeong : Dose assurance of high dose rate (HDR) ^{192}Ir brachytherapy source, Proceedings of a World Congress on Medical Physics and Biomedical Engineering, Sydney, 24-29 August (2003)
11. **G. Y. Kim**, H. K. Lee, H. K. Yang, H. J. Kim, K. J. Park, H. K. Jeong : Intercomparison of activity measurements in nuclear medicine, Proceedings of a World Congress on Medical Physics and Biomedical Engineering, Sydney, 24-29 August (2003)
12. **G. Y. Kim**, C. I. Lim, J. E. Rah, H. J. Kim, K. J. Park, , H. K. Jeong : A 2002 Quality Assurance Results for Radiotherapy Centers using TLD, Proceeding of the Korea Society of Medical Physics, Busan, Korea, April, 68 (2003)
13. **G. Y. Kim**, C. I. Lim, H. J. Kim, K. J. Park, J. E. Rah, H. K. Jeong: Intercomparison of HDR Ir-192 brachytherapy source of hospitals in Korea, Proceeding of the Korea Association for Radiation Protection Meeting, Seoul, Korea, April, 17-21 (2003)**G. Y. Kim**, H. K. Yang, C. I. Lim, H. K. Lee, H. K. Jeong : Intercomparison of I-131 activity measurement in nuclear medicine, Proceeding of the 19th KAIF/KNS annual conference, Seoul, Korea, 25-27 April (2004)
14. **G. Y. Kim**, J. E. Rah, H. K. Yang, C. I. Lim, H. K. Lee, H. K. Jeong : Comparison of Tc-99m activity measurement in nuclear medicine, Proceeding of the Korea Society of Medical Physics, Kyungju, Korea, 16-17 April (2004)
15. **G. Y. Kim**, T Li et al.: Influence of respiratory motion on cone-beam CT (CBCT) imaging of thorax and abdomen, American Association of Physicists in Medicine, 47th Annual Meeting, 2005.
16. **Gwe-Ya Kim**, Kathleen Horst, Peter Maxim, Gary Luxton, Lei Xing, Arthur L Boyer, Todd Pawlicki : Investigation of Cone-beam CT for Breast Cancer Treatment Planning, American Society for Therapeutic Radiology and Oncology, 47th Annual meeting, 2005
17. Todd Pawlicki, **Gwe-Ya Kim**, Cristian Cotrutz, Lei Xing, Arthur L Boyer, Gary Luxton, Christopher King : Investigation of Linac-based Image-guided Hypofractionated Prostate Radiotherapy, American Society for Therapeutic Radiology and Oncology, 47th Annual meeting, 2005

18. **G. Kim**, T. Pawlicki, G. Luxton: Performance and Stability of the Varian Cone-Beam CT System, American Association of Physicists in Medicine, 48th Annual Meeting, 2006. – Grant of “Special Merit”
19. S. Yoo, **G. Kim**, R. Hammoud, E. Elder, T. Pawlicki, H. Guan, T. Fox, G. Luxton, F. Yin, P. Munro : Quality Assurance of the On-Board Imager and one-Beam Computed Tomography Systems, American Association of Physicists in Medicine, 48th Annual Meeting, 2006.
20. G Kim, Y Liang, G White, X Ning, L Mell, T Pawlicki: Feasibility Study of Total Marrow Irradiation Using RapidArc, American Association of Physicists in Medicine, 52th Annual Meeting, 2010.
21. **G Kim**, N Detorie, T Pawlicki, R Rice, Quality Assurance of IMAT Plans, American Association of Physicists in Medicine, 52th Annual Meeting, 2010.
22. T Pawlicki, M Whitaker, **G Kim**, On Improving the Accuracy of EBT2 Film Dosimetry Using a Flatbed Scanner, American Association of Physicists in Medicine, 52th Annual Meeting, 2010.
23. R Rice, **G Kim**, E Kinsey, M Whitaker, T Pawlicki, Quality Assurance for Large Field IMRT Using EPID Images, American Association of Physicists in Medicine, 52th Annual Meeting, 2010.
24. M Yeginer, B Aydogan, B Smith, J Turian , **G Kim**, Simultaneous Integrated Boost Radiotherapy Using Volumetric Modulated Arc Therapy (RapidArc) in the Treatment of Head&Neck Cancer: A Dosimetric comparison with Helical TomoTherapy and Intensity Modulated Radiotherapy, American Association of Physicists in Medicine, 52th Annual Meeting, 2010.
25. **G Kim**, R Rice, N Detorie, I Dragojevic, T Pawlicki: Feasibility Study of In-Vivo Transit Dosimetry for IMRT Patients, American Association of Physicists in Medicine, 53th Annual Meeting, 2011.
26. Yun Liang, **Gwe-Ya Kim**, Xinquan Ning, Greg White, Todd Pawlicki, Loren Mell: Total Marrow Irradiation And Total Marrow And Lymphoid Irradiation With Volumetric Modulated Arc Therapy, American Society for Radiation oncology, 53th Annual Meeting, 2011.
27. **Gwe-Ya Kim**, Roger Rice, Nicole Detorie, Irena Dragojevic, Todd Pawlicki: Feasibility study of in-vivo transit dosimetry for IMRT patients, American Society for Radiation oncology, 53th Annual Meeting, 2011.

28. Irena Dragojevic, Nicole Detorie, **Gwe-Ya Kim**: Patient specific QA for Gated RapidArc Treatment on True Beam, American Society for Radiation oncology, 53th Annual Meeting, 2011.
29. Y Graves, X Gu, X Jia, T Teke, I Popescu, **G Kim**, S Jiang: A Fast and Accurate GPU based Patient-specific RapidArc QA Package, American Society for Radiation oncology, 53th Annual Meeting, 2011.
30. **G Kim**, R Rice, N Detorie, I Dragojevic, T Pawlicki: Feasibility Study of In-Vivo Transit Dosimetry for IMRT Patients American Association of Physicists in Medicine, 53th Annual Meeting, 2011.
31. R Rice. **G Kim**, J Wang, T Pawlicki: CT Dose Survey for simulations in Radiation Oncology, American Association of Physicists in Medicine, 53th Annual Meeting, 2011.
32. Y Liang, L Mell, G Kim: Volumetric Modulated Arc Therapy Based Total Marrow Irradiation and Dosimetry Verification. American Association of Physicists in Medicine, 53th Annual Meeting, 2011.
33. **G Kim**, R Rice, J Lawson, K Murphy, T Pawlicki: Stereotactic Radiosurgery with FFF Mode photon Beams, American Society for Radiation oncology, 54th Annual Meeting, 2012.
34. **G Kim**, J Uhl, A Sandhu, Todd Pawlicki: A comparison of Lung SBRT Using Volumetric Modulated Arc Therapy with Static Field IMRT on TrueBeam, American Society for Radiation oncology, 54th Annual Meeting, 2012.
35. **G Kim**, D Cao, Todd Pawlicki: Linac-based IMRT/VMAT commissioning and QA Program development, Educational Course Invited Speaker, American Association of Physicists in Medicine, 54th Annual Meeting, 2012.
36. B Cochran, R Rice, **G Kim**: Beam attenuation characteristics of treatment couches, American Association of Physicists in Medicine, 54th Annual Meeting, 2012.
37. M Grevenow, D Scanderbeg, **G Kim**: Cumulated dose evaluation for head and neck cancers, American Association of Physicists in Medicine, 54th Annual Meeting, 2012.
38. M Folkers, Y Graves, Q Gautier, **G Kim**, X Jia, S Jiang: Development of a Web Wrapper to Facilitate Radiotherapy Research, American Association of Physicists in Medicine, 54th Annual Meeting, 2012.

39. Y Graves, X Zhen, **G Kim**, Q Gautier, Z Tian, L Cervino, M Lambrecht, X Jia, S Jiang: Estimation of the Delivered Fractional and Accumulative Patient Dose in IMRT and VMAT, American Association of Physicists in Medicine, 54th Annual Meeting, 2012.
40. Y Graves, **G Kim**, M Folkerts, T Teke, I Popescu, L Cervino, Z Tian, X Jia, S Jiang: A GPU-Based Monte Carlo QA Tool for IMRT and VMAT, American Association of Physicists in Medicine, 54th Annual Meeting, 2012.
41. M Lambrecht, Y Graves, Q Gautier, Z Tian, **G Kim**, A Uribe-Sanchez, X Jia, S Jiang: A Procedure for Efficient Large-Scale Retrospective Clinical Studies for Online Adaptive Radiotherapy, American Association of Physicists in Medicine, 54th Annual Meeting, 2012.
42. **G Kim**, M Cornell, R Rice, and P Sanghvi: VMAT technique for the circumferential treatment of a limb with leukemia cutis, American Society for Radiation oncology, 55th Annual Meeting, 2013.
43. D Rahn, **G Kim**, T Pawlicki and A Mundt: A real-time safety and quality reporting system: Initial clinical outcomes and survey results, American Society for Radiation oncology, 55th Annual Meeting, 2013.
44. **G Kim**, L Cervino: Frameless Intracranial Radiosurgery, American Association of Physicists in Medicine, 55th Annual Meeting, 2013.
45. R Rice, **G Kim**, M Whitaker and T Pawlicki: Evaluation of MLC QA software to determine MLC accuracy from EPID images, American Association of Physicists in Medicine, 55th Annual Meeting, 2013.
46. C Pearson, W Song and **G Kim**: Influence of patient weight and couch angle on the accuracy of a surface tracking system for monitoring of brain stereotactic radiosurgery, American Association of Physicists in Medicine, 55th Annual Meeting, 2013.
47. T. Seibert, N.S. White, **G. Kim**, C.R. McDonald, N. Farid, V. Moiseenko, H. Bartsch, J. Kuperman, D. Holland, A.J Mundt, A.M. Dale, J.A. Hattangadi-Gluth: Distortion inherent to magnetic resonance imaging (MRI) can lead to geometric miss in radiosurgery planning, American Society for Radiation oncology, 56th Annual Meeting, 2014.
48. Jeong-Eun Rah, Dongho Shin, and **Gwe-Ya Kim**: Statistical process control for patient-specific QA in proton beams, American Association of Physicists in Medicine, 56th Annual Meeting, 2014.

49. Adam Paxton, Ryan Manger, Todd Pawlicki and **Gwe-Ya Kim**: Advantages of a new surface imaging calibration methods for SRS treatments, American Association of Physicists in Medicine, 56th Annual Meeting, 2014.
50. Ryan Manger, Adam Paxton, Todd Pawlicki, and **Gwe-Ya Kim**: Risk assessment of surface image guided stereotactic radiosurgery, American Association of Physicists in Medicine, 56th Annual Meeting, 2014.
51. **Gwe-Ya Kim**, David Schlesinger, Martina Descovich: SRT I. Comparison of SRT Techniques, American Association of Physicists in Medicine, 56th Annual Meeting, 2014.
52. **Gwe-Ya Kim**: Clinical experience with an open mask SRS system, The SRS/SBRT Scientific Meeting, The Radiosurgery society meeting, 2014
53. **Grace Gwe-Ya Kim**, Strategies and technologies for cranial radiosurgery planning: MLC-based Linac, SAM Therapy Educational Course, presentation at the 57th Annual Meeting of the American Association of Physicists in Medicine, Anaheim, CA, July 12-16, 2015
54. R Manger, T Pawlicki, **G Kim**. A TG-100 Approach for Quality Improvement of Associated Dosimetry Equipment. Poster presentation at the 57th Annual Meeting of the American Association of Physicists in Medicine, Anaheim, CA, July 12-16, 2015
55. **G Kim**, R Manger, T Pawlicki. A Comparison of Two Risk Analysis Techniques for Surface Image Guided Radiosurgery. Poster presentation at the 57th Annual Meeting of the American Association of Physicists in Medicine, Anaheim, CA, July 12-16, 2015
56. J Lah, D Shin, G Kim, Tolerance Design for Site –Specific Range in Proton Patient QA Process using six-sigma model, Poster presentation at the 57th Annual Meeting of the American Association of Physicists in Medicine, Anaheim, CA, July 12-16, 2015
57. D Zaks, R Fletcher, S Salamon, G Kim, T Ning, M Cornell, T Pawlicki, L Cervino, Online Framework for Plan tracking and automatic checks in Radiation therapy, Poster presentation at the 57th Annual Meeting of the American Association of Physicists in Medicine, Anaheim, CA, July 12-16, 2015

58. T.A. Ritter, B. Schultz, **G Kim**, M Barnes, M. Perez, K Farrey, R, Popple, P Greer and J.M.Moran, Automated EPID-Based 2D measurement of MLC leaf offset as a quality control tool, Poster presentation at the 58th Annual Meeting of the American Association of Physicists in Medicine, Washington DC, July 31-August 4, 2016
59. J Lah, J Son, **G Kim** and D Shin, Feasibility study of fiber-optic Cerenkov radiation sensor for in vivo measurement: Dosimetric characterization and clinical application in proton beams, ePoster presentation at the 58th Annual Meeting of the American Association of Physicists in Medicine, Washington DC, July 31-August 4, 2016
60. J Lah, R.P. Ryan and **G Kim**, Evaluating the validity of prospective risk analysis methods: A comparison of traditional FMEA and modified HealthcareFMEA: Oral presentation at the 58th Annual Meeting of the American Association of Physicists in Medicine, Washington DC, July 31-August 4, 2016
61. A York, T Pawlicki, and **G Kim**, Prospective treatment plan-specific action limits for real-time intrafractional monitoring in surface image guided radiosurgery, ePoster presentation at the 58th Annual Meeting of the American Association of Physicists in Medicine, Washington DC, July 31-August 4, 2016
62. J Lah, D Shin, R Manger and **G Kim**, Application of Six Sigma approach to improve the efficiency of patient-specific QA in proton therapy, Oral presentation at the 58th Annual Meeting of the American Association of Physicists in Medicine, Washington DC, July 31-August 4, 2016
63. J DeMarco, J Moran, M Barnes, P Greer, **G Kim** B Fraass, W Yang, E McKenzie-Boehnke, Performance of the aS1200 EPID for periodic photon quality assurance, Poster presentation at the 58th Annual Meeting of the American Association of Physicists in Medicine, Washington DC, July 31-August 4, 2016
64. **G Kim**, Risk Assessment for Radiosurgery, TG 100 Certificate of Completion Course, Session presentation at the 58th Annual Meeting of the American Association of Physicists in Medicine, Washington DC, July 31-August 4, 2016
65. L Fong de los Santos, L Dong, A Greener, J Johnson, P Johnson, **G Kim**, J Mechalakos, B Napolitano, S Parker, D Schofield, M Wells, E Yorke, E

Ford, Medical physics practices for plan and chart review: Results of AAPM Task Group 275 Survey, Oral presentation at the 58th Annual Meeting of the American Association of Physicists in Medicine, Washington DC, July 31-August 4, 2016

66. **G Kim**, B Muir, W Culberson, S Davis, Y Hiang, S Lee, J Lawenstein, A Sarfehnia, N Tolani, K Siebers, Oral presentation at the 58th Annual Meeting of the American Association of Physicists in Medicine, Washington DC, July 31-August 4, 2016
67. **G Kim**, M Taylor, M Cornell, V Bradford, M Collins and T Pawlicki, A Pre-post survey analysis of safety climate with department safety culture workshop, Poster presentation at the 58th Annual Meeting of the American Society for Radiation Oncology, Boston, MA, September 25-28, 2016
68. J Lah, D Shin, and **G Kim**, Application of Six Sigma approach to improve the efficiency of patient-specific QA in proton therapy, Poster presentation at the 58th Annual Meeting of the American Society for Radiation Oncology, Boston, MA, September 25-28, 2016