

Stanford



Gary Luxton

Professor of Radiation Oncology at the Stanford University Medical Center, Emeritus
Radiation Oncology - Radiation Physics

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Radiation Oncology - Radiation Physics

ADMINISTRATIVE APPOINTMENTS

- Chair, Administrative Panel on Radiological Safety, Stanford University, (2012-2015)
- Director, Stanford Radiation Oncology Physics Residency, (2006-2013)
- Chief of Clinical Physics, Stanford Hospital and Clinics, (2000-2009)
- Vice Chairman, Department of Radiation Oncology, University of Southern California, (1989-1998)
- Director of Radiation Physics, Dept. of Radiation Oncology, University of Southern California, (1983-1998)

PROFESSIONAL EDUCATION

- B.Sc., McGill University , Physics (1964)
- M.S., California Institute of Technology , Physics (1966)
- Ph.D., California Institute of Technology , Physics (1970)

PATENTS

- Wu Liu, Gary Luxton, Lei Xing. "United States Patent 8,229,070 Intra-fraction Motion Management using a Rough to Accurate Monitoring Strategy", Leland Stanford Junior University, Jul 24, 2012

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

1. Analytic modeling of damage to normal tissues in conventional and hypofractionated radiotherapy.
2. Characterization of accuracy and methodology for system quality assurance in the use of automated high-performance radiation delivery systems.

Publications

PUBLICATIONS

- **Estimated Risk Level of Unified Stereotactic Body Radiation Therapy Dose Tolerance Limits for Spinal Cord** *SEMINARS IN RADIATION ONCOLOGY*
Grimm, J., Sahgal, A., Soltys, S. G., Luxton, G., Patel, A., Herbert, S., Xue, J., Ma, L., Yorke, E., Adler, J. R., Gibbs, I. C.
2016; 26 (2): 165-171
- **Predictors of Toxicity Associated With Stereotactic Body Radiation Therapy to the Central Hepatobiliary Tract** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Osmundson, E. C., Wu, Y., Luxton, G., Bazan, J. G., Koong, A. C., Chang, D. T.

2015; 91 (5): 986-994

- **Impact of chemotherapy on normal tissue complication probability models of acute hematologic toxicity in patients receiving pelvic intensity modulated radiation therapy.** *International journal of radiation oncology, biology, physics*
Bazan, J. G., Luxton, G., Kozak, M. M., Anderson, E. M., Hancock, S. L., Kapp, D. S., Kidd, E. A., Koong, A. C., Chang, D. T.
2013; 87 (5): 983-991
- **Normal Tissue Complication Probability Modeling of Acute Hematologic Toxicity in Patients Treated With Intensity-Modulated Radiation Therapy for Squamous Cell Carcinoma of the Anal Canal** *53rd Annual Meeting of the American-Society-of-Radiation-Oncology (ASTRO)*
Bazan, J. G., Luxton, G., Mok, E. C., Koong, A. C., Chang, D. T.
ELSEVIER SCIENCE INC.2012: 700–706
- **Feature-based Automatic Real-time Tumor Motion Monitoring With or Without Fiducial Markers** *54th Annual Meeting of the American-Society-for-Radiation-Oncology (ASTRO)*
Liu, W., Xie, Y., Lin, W., Luxton, G., Nath, R.
ELSEVIER SCIENCE INC.2012: S724–S724
- **Normal Tissue Complication Probability Modeling of Acute Hematologic Toxicity in Patients Receiving Pelvic IMRT and Concurrent Chemotherapy** *54th Annual Meeting of the American-Society-for-Radiation-Oncology (ASTRO)*
Bazan, J. G., Luxton, G., Kozak, M. M., Anderson, E. M., Hancock, S. L., Kapp, D. S., Kidd, E. A., Hara, W. Y., Koong, A. C., Chang, D. T.
ELSEVIER SCIENCE INC.2012: S350–S350
- **Verification of dosimetric accuracy on the TrueBeam STx: Rounded leaf effect of the high definition MLC** *MEDICAL PHYSICS*
Kielar, K. N., Mok, E., Hsu, A., Wang, L., Luxton, G.
2012; 39 (10): 6360-6371
- **Fidelity of dose delivery at high dose rate of volumetric modulated arc therapy in a truebeam linac with flattening filter free beams.** *Journal of medical physics / Association of Medical Physicists of India*
Kalantzis, G., Qian, J., Han, B., Luxton, G.
2012; 37 (4): 193-199
- **Volumetric Modulated Arc Therapy Treatment Quality Assurance Using An Ion Chamber Array and a Software-Modified Phantom** *54th Annual Meeting and Exhibition of the American-Association-of-Physicists-in-Medicine (AAPM)*
Han, B., Phillips, T., Luxton, G.
AMER ASSOC PHYSICISTS MEDICINE AMER INST PHYSICS.2012: 3785–86
- **Investigations of Fidelity of Dose Delivery at High Dose Rate of Flattening Filter Free (FFF) Beams in VMAT On TrueBeam (TM)** *54th Annual Meeting and Exhibition of the American-Association-of-Physicists-in-Medicine (AAPM)*
Kalantzis, G., Qian, J., Han, B., Luxton, G.
AMER ASSOC PHYSICISTS MEDICINE AMER INST PHYSICS.2012: 3781–82
- **NORMAL TISSUE COMPLICATION PROBABILITY ESTIMATION BY THE LYMAN-KUTCHER-BURMAN METHOD DOES NOT ACCURATELY PREDICT SPINAL CORD TOLERANCE TO STEREOTACTIC RADIOSURGERY** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Daly, M. E., Luxton, G., Choi, C. Y., Gibbs, I. C., Chang, S. D., Adler, J. R., Soltys, S. G.
2012; 82 (5): 2025-2032
- **Stereotactic Radiosurgery Yields Long-term Control for Benign Intradural, Extramedullary Spinal Tumors** *NEUROSURGERY*
Sachdev, S., Dodd, R. L., Chang, S. D., Soltys, S. G., Adler, J. R., Luxton, G., Choi, C. Y., Tupper, L., Gibbs, I. C.
2011; 69 (3): 533-539
- **Point/counterpoint: pulsed reduced dose rate radiation therapy is likely to become the treatment modality of choice for recurrent cancers.** *Medical physics*
Ma, C. C., Luxton, G., Orton, C. G.
2011; 38 (9): 4909-4911
- **Dose verification for respiratory-gated volumetric modulated arc therapy** *PHYSICS IN MEDICINE AND BIOLOGY*
Qian, J., Xing, L., Liu, W., Luxton, G.
2011; 56 (15): 4827-4838
- **Leaf Gap Leakage and Dosimetric Accuracy for SBRT Treatment on the TrueBeam STx**
Kielar, K. N., Mok, E., Wang, L., Hsu, A., Maxim, P., Luxton, G., Xing, L.

ELSEVIER SCIENCE INC.2011: S852–S852

- **Stereotactic Body Radiation Therapy (SBRT) Using Respiratory-Gated Volumetric Modulated Arc Therapy (VMAT) With Flattening Filter Free (FFF) Beams**
Qian, J., Luxton, G., Mok, E., Wang, L., Maxim, P., Kielar, K., Atwood, T., Xing, L.
ELSEVIER SCIENCE INC.2011: S851–S852
- **Optimizing Imaging Dose and Targeting Accuracy in IGRT for Real-time Radiographic Motion Tracking**
Liu, W., Yan, H., Lin, W., Ahmad, M., Cho, B., Keall, P., Luxton, G., Xing, L., Nath, R.
ELSEVIER SCIENCE INC.2011: S31–S31
- **A FAILURE DETECTION STRATEGY FOR INTRAFRACTION PROSTATE MOTION MONITORING WITH ON-BOARD IMAGERS FOR FIXED-GANTRY IMRT** *51st Annual Meeting of the American-Association-of-Physicists-in-Medicine*
Liu, W., Luxton, G., Xing, L.
ELSEVIER SCIENCE INC.2010: 904–11
- **Clinical development of a failure detection-based online repositioning strategy for prostate IMRT-Experiments, simulation, and dosimetry study** *MEDICAL PHYSICS*
Liu, W., Qian, J., Hancock, S. L., Xing, L., Luxton, G.
2010; 37 (10): 5287-5297
- **Dose reconstruction for volumetric modulated arc therapy (VMAT) using cone-beam CT and dynamic log files** *PHYSICS IN MEDICINE AND BIOLOGY*
Qian, J., Lee, L., Liu, W., Chu, K., Mok, E., Luxton, G., Le, Q., Xing, L.
2010; 55 (13): 3597-3610
- **A Real-time Low-dose Imaging Strategy for Online Patient Repositioning or Respiratory Gating during IMRT or VMAT** *52nd Annual Meeting of the American-Society-for-Therapeutic-Radiation-Oncology (ASTRO)*
Liu, W., Luxton, G., Mastoridis, T., Hancock, S. L., Xing, L.
ELSEVIER SCIENCE INC.2010: S724–S725
- **IMAGE-GUIDED RADIOTHERAPY IN NEAR REAL TIME WITH INTENSITY-MODULATED RADIOTHERAPY MEGAVOLTAGE TREATMENT BEAM IMAGING** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Mao, W., Hsu, A., Riaz, N., Lee, L., Wiersma, R., Luxton, G., King, C., Xing, L., Solberg, T.
2009; 75 (2): 603-610
- **MRI GUIDANCE FOR ACCELERATED PARTIAL BREAST IRRADIATION IN PRONE POSITION: IMAGING PROTOCOL DESIGN AND EVALUATION** *50th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology (ASTRO)*
Ahn, K., Hargreaves, B. A., Alley, M. T., Horst, K. C., Luxton, G., Daniel, B. L., Hristov, D.
ELSEVIER SCIENCE INC.2009: 285–93
- **Stereotactic Radiosurgery Yields Long-term Control for Benign Intradural, Extramedullary Spine Tumors** *51st Annual Meeting of the American-Society-for-Radiation-Oncology (ASTRO)*
Sachdev, S., Dodd, R. L., Chang, S. D., Soltys, S. G., Adler, J. R., Luxton, G., Choi, C. Y., Tupper, L. A., Gibbs, I. C.
ELSEVIER SCIENCE INC.2009: S101–S101
- **Optimized Hybrid MV-kV Imaging Protocol for Volumetric Prostate Arc Therapy** *51st Annual Meeting of the American-Society-for-Radiation-Oncology (ASTRO)*
Liu, W., Luxton, G., Xing, L.
ELSEVIER SCIENCE INC.2009: S570–S571
- **Real-time 3D internal marker tracking during arc radiotherapy by the use of combined MV-kV imaging** *PHYSICS IN MEDICINE AND BIOLOGY*
Liu, W., Wiersma, R. D., Mao, W., Luxton, G., Xing, L.
2008; 53 (24): 7197-7213
- **LINAC-based on-board imaging feasibility and the dosimetric consequences of head roll in head-and-neck IMRT plans** *MEDICAL DOSIMETRY*
Kim, G., Pawlicki, T., Le, Q., Luxton, G.
2008; 33 (1): 93-99
- **A new formula for normal tissue complication probability (NTCP) as a function of equivalent uniform dose (EUD)** *PHYSICS IN MEDICINE AND BIOLOGY*
Luxton, G., Keall, P. J., King, C. R.

2008; 53 (1): 23-36

- **Tracking of organ motion during arc therapy with MV treatment beam imaging and as-needed kV imaging** *50th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology (ASTRO)*
Liu, W., Mao, W., Wiersma, R., Luxton, G., Riaz, N., Schlaefel, A., Xing, L.
ELSEVIER SCIENCE INC.2008: S609–S609
- **Using MV treatment beam imaging to monitor prostate motion in near real-time on a conventional LINAC** *50th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology (ASTRO)*
Dua, N., Mao, W., Lee, L., Riaz, N., Wiersma, R., Hsu, A., Luxton, G., King, C., Xing, L.
ELSEVIER SCIENCE INC.2008: S560–S561
- **Biological modeling indices for 4D radiation therapy** *50th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology (ASTRO)*
Anthony, J., Luxton, G., Leek, L., Chao, M., Carlson, D., Xing, L.
ELSEVIER SCIENCE INC.2008: S629–S629
- **Quantification of motion of different thoracic locations using four-dimensional computed tomography: Implications for radiotherapy planning** *48th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology (ASTRO)*
Maxim, P. G., Loo, B. W., Shirazi, H., Thorndyke, B., Luxton, G., Le, Q.
ELSEVIER SCIENCE INC.2007: 1395–1401
- **A study of image-guided intensity-modulated radiotherapy with fiducials for localized prostate cancer including pelvic lymph nodes** *48th Annual Meeting of the American-Association-of-Physicists-in-Medicine*
Hsu, A., Pawlicki, T., Luxton, G., Hara, W., King, C. R.
ELSEVIER SCIENCE INC.2007: 898–902
- **Investigation of linac-based image-guided hypofractionated prostate radiotherapy** *47th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology*
Pawlicki, T., Kim, G., Hsu, A., Cotrutz, C., Boyer, A. L., Xing, L., King, C. R., Luxton, G.
ELSEVIER SCIENCE INC.2007: 71–79
- **An electronic compensator for total body irradiation** *49th Annual Meeting of the American-Association-of-Physicists-in-Medicine*
Hsu, A., Mok, E., Findley, D., Luxton, G.
AMER ASSOC PHYSICISTS MEDICINE AMER INST PHYSICS.2007: 2642–43
- **A quality assurance program for the On-Board Imager (R)** *World Congress on Medical Physics and Biomedical Engineering*
Yoo, S., Kim, G., Hammoud, R., Elder, E., Pawlicki, T., Guan, H., Fox, T., Luxton, G., Yin, J., Munro, P.
SPRINGER-VERLAG BERLIN.2007: 1793–1796
- **A quality assurance program for the on-board imager (R)** *MEDICAL PHYSICS*
Yoo, S., Kim, G., Hammoud, R., Elder, E., Pawlicki, T., Guan, H., Fox, T., Luxton, G., Yin, F., Munro, P.
2006; 33 (11): 4431-4447
- **Overview of image-guided radiation therapy** *MEDICAL DOSIMETRY*
Xing, L., Thorndyke, B., Schreiber, E., Yang, Y., Li, T., Kim, G., Luxton, G., Koong, A.
2006; 31 (2): 91-112
- **Impact on nodal dose distribution from daily fiducial tracking for IMRT prostate and pelvic node treatments** *48th Annual Meeting of the American-Association-of-Physicists-in-Medicine*
Hsu, A., Pawlicki, T., King, C., Hancock, S., Luxton, G.
AMER ASSOC PHYSICISTS MEDICINE AMER INST PHYSICS.2006: 2216–16
- **Quality assurance of the on-board imager and cone-beam computed tomography systems** *48th Annual Meeting of the American-Association-of-Physicists-in-Medicine*
Yoo, S., Kim, G., Hammoud, R., Elder, E., Pawlicki, T., Guan, H., Fox, T., Luxton, G., Yin, F., Munro, P.
AMER ASSOC PHYSICISTS MEDICINE AMER INST PHYSICS.2006: 2131–32
- **Performance and stability of the varian cone-beam CT system** *48th Annual Meeting of the American-Association-of-Physicists-in-Medicine*
Kim, G., Pawlicki, T., Luxton, G.
AMER ASSOC PHYSICISTS MEDICINE AMER INST PHYSICS.2006: 2004–

- **Investigation of Linac-based image-guided hypofractionated prostate treatment** *47th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology*
Pawlicki, T., Kim, G., King, C., Xing, L., Boyer, A. L., Luxton, G.
ELSEVIER SCIENCE INC.2005: S518–S518
- **Investigation of cone-beam CT for breast cancer treatment planning** *47th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology*
Kim, G., Horst, K., Maxim, P., Luxton, G., Xing, L., Boyer, A. L., Pawlicki, T.
ELSEVIER SCIENCE INC.2005: S553–S553
- **Dosimetry and radiobiologic model comparison of IMRT and 3D conformal radiotherapy in treatment of carcinoma of the prostate** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Luxton, G., Hancock, S. L., Boyer, A. L.
2004; 59 (1): 267-284
- **Lens dose in MLC-based IMRT treatments of the head and neck** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Pawlicki, T., Luxton, G., Le, Q. T., Findley, D., Ma, C. M.
2004; 59 (1): 293-299
- **Independent dosimetric calculation with inclusion of head scatter and MLC transmission for IMRT** *MEDICAL PHYSICS*
Yang, Y., Xing, L., Li, J. G., Palta, J., Chen, Y., Luxton, G., Boyer, A.
2003; 30 (11): 2937-2947
- **Calculation of brachytherapy doses does not need TG-43 factorization. Against the proposition.** *Medical physics*
Luxton, G.
2003; 30 (6): 998-999
- **Including metabolic uncertainty into proton MR spectroscopic imaging (MRSI)-guided inverse treatment planning** *45th Annual Meeting of the American-Association-of-Physicists-in-Medicine*
Lian, J., Spielman, D., Cotrutz, C., Hunjan, S., Adalsteinsson, E., King, C., Luxton, G., Boyer, A., Kim, D., Daniel, B., Xing, L.
AMER ASSOC PHYSICISTS MEDICINE AMER INST PHYSICS.2003: 1384–84
- **TLD measurement system for comprehensive dosimetric quality assurance in IMRT**
Luxton, G., Hai, J., Song, Y., Boyer, A.
AMER ASSOC PHYSICISTS MEDICINE AMER INST PHYSICS.2002: 1264–65
- **Inverse treatment planning with inclusion of model parameter uncertainty**
Xing, L., Lian, J., Cotrutz, C., Yang, Y., Luxton, G., Boyer, A.
AMER ASSOC PHYSICISTS MEDICINE AMER INST PHYSICS.2002: 1293–93
- **An image fusion study of the geometric accuracy of magnetic resonance imaging with the Leksell stereotactic localization system.** *Journal of applied clinical medical physics*
Yu, C., Petrovich, Z., Apuzzo, M. L., Luxton, G.
2001; 2 (1): 42-50
- **Application of radiosurgery principles to a target in the breast: A dosimetric study** *MEDICAL PHYSICS*
Jozsef, G., Luxton, G., Formenti, S. C.
2000; 27 (5): 1005-1010
- **Monitor unit calculation for an intensity modulated photon held by a simple scatter-summation algorithm** *PHYSICS IN MEDICINE AND BIOLOGY*
Xing, L., Chen, Y., Luxton, G., Li, J. G., Boyer, A. L.
2000; 45 (3): N1-N7
- **Quality assurance of beam accuracy for Leksell Gamma Unit.** *Journal of applied clinical medical physics*
Yu, C., Petrovich, Z., Luxton, G.
2000; 1 (1): 28-31
- **A multi-purpose quality assurance tool for MLC-based IMRT** *13th International Conference on the Use of Computers in Radiation Therapy*
Chen, Y., Xing, L., Luxton, G., Li, J. G., Boyer, A. L.
SPRINGER-VERLAG BERLIN.2000: 371–373

- **The accuracy of magnetic resonance imaging for stereotactic localization** *22nd Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society*
Yu, C., Apuzzo, M. L., Zee, C. S., Luxton, G., Petrovich, Z.
IEEE.2000: 2699–2702
- **IMRT by dynamic MLC** *13th International Conference on the Use of Computers in Radiation Therapy*
Boyer, A., Xing, L., Luxton, G., Chen, Y., Ma, C.
SPRINGER-VERLAG BERLIN.2000: 160–163
- **Quality assurance for treatment planning dose delivery by 3DRTP and IMRT** *American-Association-of-Physicists-in-Medicine 2000 Summer School*
Boyer, A. L., Mok, E., Luxton, G., Findley, D., Chen, Y., Pawlicki, T., Ma, C. M., Xing, L., Xia, P.
MEDICAL PHYSICS PUBLISHING.2000: 187–230
- **Implementation of a Clarkson summation algorithm for dose verification in MLC-based IMRT** *22nd Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society*
Chen, Y., Xing, L., Luxton, G., Li, J. G., Boyer, A. L.
IEEE.2000: 1534–1537
- **Distance learning by the world wide web for medical dosimetrists** *22nd Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society*
Boyer, A., Malden, C., Pawlicki, T., Luxton, G., Ma, C., Xing, L., Findley, D., Mok, E., Stringer, J., Dev, P.
IEEE.2000: 2894–2896
- **Monitor unit calculation for intensity modulated photon field** *13th International Conference on the Use of Computers in Radiation Therapy*
Xing, L., Chen, Y., Luxton, G., Li, J. G., Boyer, A. L.
SPRINGER-VERLAG BERLIN.2000: 374–376
- **DMLC IMRT is sufficient for all clinical purposes** *13th International Conference on the Use of Computers in Radiation Therapy*
Boyer, A., Xing, L., Luxton, G., Ma, C.
SPRINGER-VERLAG BERLIN.2000: 7–9
- **Monitor unit calculation for intensity modulated photon field** *22nd Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society*
Xing, L., Chen, Y., Luxton, G., Li, J. G., Boyer, A. L.
IEEE.2000: 173–176
- **Monte Carlo for the Cyberknife** *13th International Conference on the Use of Computers in Radiation Therapy*
Guerrero, T., Pawlicki, T., Jiang, S. B., Hai, J., Luxton, G., Ozhasoglu, C., Adler, J. R., Ma, C. M.
SPRINGER-VERLAG BERLIN.2000: 344–346
- **Image-guided radiosurgery for the spine and pancreas.** *Computer aided surgery*
MURPHY, M. J., Adler, J. R., Bodduluri, M., Dooley, J., Forster, K., Hai, J., Le, Q., Luxton, G., Martin, D., Poen, J.
2000; 5 (4): 278-288
- **Radial dose distribution, dose to water and dose rate constant for monoenergetic photon point sources from 10 keV to 2 MeV: EGS4 Monte Carlo model calculation** *MEDICAL PHYSICS*
Luxton, G., Jozsef, G.
1999; 26 (12): 2531-2538
- **Dosimetric comparison of three photon radiosurgery techniques for an elongated ellipsoid target** *37th Annual Meeting of the American-Association-of-Physicists-in-Medicine*
Yu, C., Luxton, G., Jozsef, G., Apuzzo, M. L., Petrovich, Z.
ELSEVIER SCIENCE INC.1999: 817–26
- **TLD dose measurement: A simplified accurate technique for the dose range from 0.5 cGy to 1000 cGy** *MEDICAL PHYSICS*
Yu, C., Luxton, G.
1999; 26 (6): 1010-1016
- **Gamma knife radiosurgery for metastatic melanoma: An analysis of survival, outcome, and complications** *NEUROSURGERY*
Lavine, S. D., Petrovich, Z., Cohen-Gadol, A. A., Masri, L. S., Morton, D. L., O'Day, S. J., Essner, R., Zelman, V., Yu, C., Luxton, G., Apuzzo, M. L.
1999; 44 (1): 59-64

- **TLD measurements of the relative output factors for the Leksell Gamma Knife** *STEREOTACTIC AND FUNCTIONAL NEUROSURGERY*
Yu, C., Luxton, G., Apuzzo, M. L., Petrovich, Z.
1999; 72: 150-158
- **Conformal episcleral plaque therapy** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Astrahan, M. A., Luxton, G., Pu, Q., Petrovich, Z.
1997; 39 (2): 505-519
- **Extracranial radiation doses in patients undergoing gamma knife radiosurgery** *NEUROSURGERY*
Yu, C., Luxton, G., Apuzzo, M. L., MacPherson, D. M., Petrovich, Z.
1997; 41 (3): 553-559
- **Episcleral plaque thermoradiotherapy of posterior uveal melanomas** *AMERICAN JOURNAL OF CLINICAL ONCOLOGY-CANCER CLINICAL TRIALS*
Petrovich, Z., Pike, M., Astrahan, M. A., Luxton, G., Murphree, A. L., LIGGETT, P. E.
1996; 19 (2): 207-211
- **Gamma unit facility: Concept genesis, architectural design and practical realization** *Scientific Meeting of the American-Society-for-Stereotactic-Functional-Neurosurgery*
LeMay, D. R., Chen, T. C., Petrovich, Z., Luxton, G., Zelman, V., Zee, C. S., Green, J., Apuzzo, M. L.
KARGER.1996: 41-49
- **Stereotactic radiosurgery for primary and metastatic brain tumors** *CANCER INVESTIGATION*
Petrovich, Z., Luxton, G., Formenti, S., Jozsef, G., Zee, C. S., Apuzzo, M. L.
1996; 14 (5): 445-454
- **Mechanical malfunction of the Leksell Gamma Knife during patient treatment** *Scientific Meeting of the American-Society-for-Stereotactic-Functional-Neurosurgery*
Luxton, G., Yu, C., Petrovich, Z., Zelman, V., Zee, C. S., Machovec, D. J., LeMay, D., Apuzzo, M. L.
KARGER.1996: 35-40
- **SURGERY WITH ADJUVANT IRRADIATION IN PATIENTS WITH PATHOLOGICAL STAGE-C ADENOCARCINOMA OF THE PROSTATE** *CANCER*
Petrovich, Z., Lieskovsky, G., Freeman, J., Luxton, G., Groshen, S., Formenti, S., Baert, L., Chen, S. C., Skinner, D. G.
1995; 76 (9): 1621-1628
- **DOSIMETRY OF INTERSTITIAL BRACHYTHERAPY SOURCES - RECOMMENDATIONS OF THE AAPM RADIATION-THERAPY COMMITTEE TASK GROUP NO 43** *MEDICAL PHYSICS*
Nath, R., Anderson, L. L., Luxton, G., Weaver, K. A., Williamson, J. F., Meigooni, A. S.
1995; 22 (2): 209-234
- **SINGLE ISOCENTER TREATMENT PLANNING FOR HOMOGENEOUS DOSE DELIVERY TO NONSPHERICAL TARGETS IN MULTIARC LINEAR-ACCELERATOR RADIOSURGERY** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Luxton, G., Jozsef, G.
1995; 31 (3): 635-643
- **COMPARISON OF RADIATION-DOSIMETRY IN WATER AND IN SOLID PHANTOM MATERIALS FOR I-125 AND PD-103 BRACHYTHERAPY SOURCES - EGS4 MONTE-CARLO STUDY** *MEDICAL PHYSICS*
Luxton, G.
1994; 21 (12): 1989-1990
- **MAMMALIAN-CELL SURVIVAL STUDIES CHARACTERIZING MULTIPOINT NEGATIVE PI-MESON IRRADIATION WITH THE STANFORD MEDICAL PION GENERATOR (SMPG)** *INTERNATIONAL JOURNAL OF HYPERTHERMIA*
Li, G. C., Fessenden, P., Hahn, G. M., Fisher, G., Luxton, G., Bagshaw, M. A.
1994; 10 (3): 361-370
- **COMPARISON OF RADIATION-DOSIMETRY IN WATER AND IN SOLID PHANTOM MATERIALS FOR I-125 AND PD-103 BRACHYTHERAPY SOURCES - EGS4 MONTE-CARLO STUDY** *MEDICAL PHYSICS*
Luxton, G.
1994; 21 (5): 631-641
- **STEREOTACTIC RADIOSURGERY - PRINCIPLES AND COMPARISON OF TREATMENT METHODS** *NEUROSURGERY*

- Luxton, G., Petrovich, Z., Jozsef, G., Nedzi, L. A., Apuzzo, M. L.
1993; 32 (2): 241-259
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