Lijun Ma

Lijun Ma, Ph.D., DABMP, FAAPM

Professor
Division of Physics
Department of Radiation Oncology

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Professional Focus

Dr. Ma's clinical and research focus are CNS stereotactic radiosurgery, hypofractionation modeling, international/national quality assurance and practice guideline developments, and precision radiotherapy physics tools. Dr. Ma has served on international executive and editorial boards such as ISRS and Journal of Medical Physics, TCRT, JSRS/SBRT, and has won teaching awards from AARO and service awards from ABR. Dr. Ma is the principal or senior author of over 130 peer-reviewed publications, book chapters and books. Dr. Ma is a holder of several US and international patents for beam technologies relating to breast

cancer, prostate cancer and brain tumor radiation therapy.

Education

1995	University of North Carolina	PhD	Physics
1998	Stanford University	Postdoctoral	Radiation Physics

Professional Experience

2009-present	UCSF	Professor in Residence	Department of Radiation Oncology
2006-2009	UCSF	Associate Professor in Residence	Department of Radiation Oncology
2003-2005	University of Maryland Medical School, Baltimore, MD	Associate Professor	Department of Radiation Oncology
1998-2003	University of Maryland Medical School, Baltimore, MD	Assistant Professor	Department of Radiation Oncology

Awards & Honors

1996	Dean's Postdoctoral Fellow, Stanford University
2001	Teacher of the Year Award, ARRO
2007	Best SRS/SBRT Technical Paper Award (Senior Author)
2010	John Cameron Junior Investigator Finalist (Senior Author)
2014-2015	Exemplary Service Award, American Board of Radiology
2015	Best International ISRS Congress Paper/Poster Award (Senior Author)

Recent Significant Publications :

Sahgal A, Weinberg V, Ma L, Chang E, Chao S, Muacevic A, Gorgulho A, Soltys S, Gerszten PC, Ryu S, Angelov L, Gibbs I, Wong CS, Larson DA.,**Probabilities of radiation myelopathy specific to stereotactic body radiation therapy to guide safe practice.**Int J Radiat Oncol Biol Phys. 2013 Feb 1;85(2):341-7.

Ma L, Sahgal A, Nie K, Hwang A, Karotki A, Wang B, Shrieve DC, Sneed PK, McDermott M, Larson DA., **Reliability of contour-based volume calculation for radiosurgery.** J Neurosurg. 2012 Dec;117 Suppl:203-10.

Fogh S, Ma L, Gupta N, Sahgal A, Nakamura JL, Barani I, Sneed PK, McDermott M, Larson DA., **High-precision volume-staged Gamma Knife surgery and equivalent hypofractionation dose schedules for treating large arteriovenous malformations.** J Neurosurg. 2012 Dec;117 Suppl:115-9.

Ma L, Kirby N, Korol R, Larson DA, Sahgal A., **Assessing small-volume spinal cord dose for repeat spinal stereotactic body radiotherapy treatments.** Phys Med Biol. 2012 Dec 7;57(23):7843-51.

Descovich M, Ma L, Chuang CF, Larson DA, Barani IJ., **Comparison between prone and supine patient setup for spine stereotactic body radiosurgery.** Technol Cancer Res Treat. 2012 Jun;11(3):229-36.

Lightstone AW, Tsao M, Baran PS, Chan G, Pang G, Ma L, Lochray F, Sahgal A., **Cone beam CT (CBCT) evaluation of inter- and intra-fraction motion for patients undergoing brain radiotherapy immobilized using a commercial thermoplastic mask on a robotic couch.** Technol Cancer Res Treat. 2012 Jun;11(3):203-9.

Hyde D, Lochray F, Korol R, Davidson M, Wong CS, Ma L, Sahgal A., **Spine Stereotactic Body Radiotherapy Utilizing Cone-Beam CT Image-Guidance With a Robotic Couch: Intrafraction Motion Analysis Accounting for all Six Degrees of Freedom.** Int J Radiat Oncol Biol Phys. 2012 Mar 1;82(3):e555-62.

Lo SS, Sahgal A, Ma L, Chang EL., **Advances in radiation therapy of brain metastasis.** Prog Neurol Surg. 2012;25:96-109.

Masucci GL, Yu E, Ma L, Chang EL, Letourneau D, Lo S, Leung E, Chao S, Hyde D, Gorgulho A, Muacevic A, Larson DA, Fehlings MG, Sahgal A., **Stereotactic body radiotherapy is an effective treatment in reirradiating spinal metastases: current status and practical considerations for safe practice.** Expert Rev Anticancer Ther. 2011 Dec;11(12):1923-33.

Shiao SL, Sahgal A, Hu W, Jabbari S, Chuang C, Descovich M, Hsu IC, Gottschalk AR, Roach M 3rd, Ma L., **Temporal compartmental dosing effects for robotic prostate stereotactic body radiotherapy.** Phys Med Biol. 2011 Dec 21;56(24):7767-75.

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UCSF Main Site

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