

## **CURRICULUM VITAE**

### **Adrian Daniel Osian**

Diplomate American Board of Radiology

Director of Physics, The New Hospital Medical Center of Queens

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Medical Center of Queens, 56-45 Main Street Flushing, NY 11355

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Education : 'Babes-Bolyai' University, 1975, B.S., ( Physics )  
CLUJ-NAPOCA , ROMANIA  
POLYTECHNIC INSTITUTE OF NEW YORK, 1985 ,  
M.S., ( Physics )  
POLYTECHNIC UNIVERSITY, 1985 to 1990, Ph.D.  
program (unfinished)

### Academic and Hospital Appointments :

#### **1982-1985 : Physicist, Medical Physics, Memorial Sloan - Kettering Cancer Center, New York**

Involved in patient management in Brachytherapy, generated treatment plans and post implant evaluations for a variety of Brachytherapy procedures. Developed instrumentation for Brachytherapy procedures (Seed feeder to load I-125 seeds in nylon catheters for temporary implants) and trained radiation oncology residents and fellows in the physics aspects of Brachytherapy.

#### **1985-1989 : Sr. Physicist, Medical Physics, Memorial Sloan - Kettering Cancer Center, New York**

Produced and worked on customized Brachytherapy treatment plans, an early version of today's conformal Brachytherapy. Involved in developing software for percutaneous prostate implants and stereotactic brain implants and developed hardware and instrumentation for precision planning and execution of

this procedures. Participated in the training of radiation oncology residents through lectures and lab work. Involved in the commissioning of the Nucletron LDR treatment machine for GYN cancers and developed an optimization software for the treatment planning. Developed the angular-shift localization technique for implanted sources.

**1989-1992 : Sr. Physicist, Radiation Oncology, Booth Memorial Medical Center, New York**

Produced and developed external beam as well as brachytherapy treatment plans for patients undergoing cancer treatments. Involved in the design and development of a dedicated outpatient Brachytherapy Suite. Responsible for commissioning of a Nucletron HDR treatment machine and of the Nucletron Brachytherapy Planning System.

Written software to reconstruct prostate treatment volumes from CT images for planning of the implants and participated in the set up of a protocol for Conformal Brachytherapy for Prostate Ca. Designed hardware to aid and improve the precision in planning and execution of the implants.

Commissioned a customized bi-planar fluoroscopy and x-ray system for localization purpose in conjunction with the Brachytherapy Suite setup. Formulated a Q.A. protocol for daily checks of Nucletron MicroSelectron HDR.

Performed calibrations and Q.A., on Varian/Siemens linear accelerators as well as Ir-192 source for HDR machine. Trained radiation oncology residents from affiliated institutions in Brachytherapy Physics by lecturing and discussions. Lectured at various national and international conferences. Published and performed peer review of articles for publications.

**1992- present: Director of Physics, Radiation Oncology, The New York Hospital Medical Center of Queens, New York**

Provided technical, clinical and administrative leadership to the department. Set up policies and procedures related to the physics aspect of the departmental protocols. Provided the shielding design and conducted acceptance testing and commissioning of a Mevasim-S simulator.

Conducted acceptance testing and commissioning of two Varian 2100C linear accelerators, one with MLC capabilities and acquired beam data for three different planning systems. Conducted acceptance testing and commissioning of a

RSA stereotactic radiosurgery system. Provided leadership in the setup of the Stereotactic radiosurgery program, as well as implemented an in depth Q.A. protocol for the system.

Led the physics team in the development and implementation of the 3D External Beam radiotherapy program. Performed complex 3D treatment plans. Set up protocols to implement TG-40 and TG-51 QA program and performed the corresponding QA. Participated in two national trials for Endovascular Brachytherapy. Certified for an additional Endovascular Brachytherapy procedure, the Beta Cath by Novoste. Commissioned and set up the protocol for IMRT program, and performed numerous IMRT treatment plans as well as the pertinent QA.

Set up a physics lecture series for the Radiation Oncology residency program. Lectured at various national and international conferences. Performed peer review of articles for publications.

Provided guidance in the development of new software and hardware for the planning and implementation of the conformal brachytherapy procedures for prostate cancer.

**1992- present: Radiation Safety Officer, The New York Hospital Medical Center of Queens, New York.**

Provided leadership and guidance, as well as enforcement of good practices(ALARA) on all radiation safety issues. Set up hospital policies and procedures related to radiation safety. Participated in hospital in-services for different departments and groups of workers. Insured adherence to regulations and laws governing the Radiological field.

Scientific and Medical Societies :

American Association of Physicists in Medicine (AAPM)

The Radiological and Medical Society of New York (RAMPS)

American Society for Therapeutic Radiology and Oncology (ASTRO)

Certification:

American Board of Radiology(ABR)

Licensure:

NY State license in four medical physics specialities:

Medical Physicist – Therapeutic Radiological

Medical Physicist – Diagnostic Radiological

Medical Physicist – Medical Nuclear

Medical Physics – Medical Health

## Original Reports

Anderson, L.L., Osian, A.D. Radionuclides, instrumentation and computerized dosimetry. In:Hilaris B.S. and Nori D.,(eds) : Brachytherapy Oncology Update-1984, New York, Memorial Sloan-Kettering Cancer Center, 1984, pp.13-18

Anderson, L.L., Osian, A.D. Brachytherapy optimization and evaluation. Endocurietherapy/Hyperthermia Oncology 1986;2s:25-32

Perez, T., Nori, D., Hilaris, B.S., Osian, A.D., Linares, L.,A., Anderson, L.L. C.T. Guided Transperineal Implants in Pelvic Tumors. In: Nori, D., (edt) :Brachytherapy Update-1988, New York, Memorial Sloan-Kettering Cancer Center ,1988 pp. 179-192

Osian, A.D., Anderson, L.L., Linares, L.A., Nori, D., Hilaris, B.S.  
Treatment planning for permanent and temporary percutaneous implants with custom made templates. International Journal of Radiation Oncology Biology Physics 1989 Vol. 16 pp. 219-223

Chada, M., Nori, D., Hilaris B.S., Wong, G., Osian, A.D., Anderson, L.L., Kutcher, G., Lewis, J.L.Jr., Fuks, Z. Stage IIB Carcinoma of the cervix managed with radiation therapy: An analysis of prognostic factors. Endocurietherapy/Hyperthermia Oncology

Minsky, B.D., Nori, D., Osian A.D., Donath, D., Anderson, L.L.: Transperineal I-125 implants for prostate cancer: The issue of pubic arch interference. Accepted for publication.

Nori, D., Donath, D., Hilaris, B.S., Osian, A.D., Zelefsky, M., Wallner, K., Whitmore, W.F., Fuks Z. Precision Transperineal Brachytherapy in the Treatment of Early Prostate Cancer. Endocurietherapy/Hyperthermia Oncology1990;6: 119-130.

Anderson, L.L., Harrington, P.J., Osian A.D., Arbit, E., Leibel, S.A., Malkin, M.G. A versatile method for planning stereotactic brain implants. Medical Physics 1993;20(5):1457-1464.

Nori, D., Allison R., Kaplan, B., Samala, E., Osian A., Karbowitz, S. High Dose-Rate Intraluminal Irradiation in Bronchogenic Carcinoma. Technique and Results. Chest 1993; 104:1006-1011

Osian A. D., Nori, D. Conformal Brachytherapy for Carcinoma of the Prostate. Endocurietherapy/Hyperthermia Oncology1994;10: 15-24.

Merimsky, O., Nori, D., Rogers, D., Osian, A. Conformal High Dose Rate Percutaneous Transhepatic Intraluminal Cholangio-Irradiation for Unresectable Cholangiocarcinoma. Endocurietherapy/Hyperthermia Oncology 1995;11:115-120

Reddy, N.M.S., Nori, D., Ross, R., Osian, A., Sampath, S., Narayanaswamy J. Surface Dose in Relation to the Complication rates in Endobronchial and Intravaginal High Dose Rate Brachytherapy. Endocurietherapy /Hyperthermia Oncology 1995;11:135-141

Nori, D, Reddy, N.M.S., Osian, A.D. Letter to the Editor. The New England Journal of Medicine333:392(August 10), 1995

Nori, D., Merimsky, O., Osian, A.D., Heffernan, M., Cortes, E., Turner, J.W. Palladium-103: A New Radioactive Source in the Treatment of Unresectable Carcinoma of the Pancreas: A Phase I-II Study. Journal of Surgical Oncology 61:300-305(1996)

Parikh S, Nori D, Rogers D, Charytan C, Al-Saloum M, Osian A (1999) : External Beam Radiation Therapy To Prevent Post-Angioplasty Dialysis Access Restenosis - A Feasibility Study. - Cardiovascular Radiation Medicine 1:1, 36-41

Sundararaman S, Nori D, Parikh S, Osian A et al (1999): Extended Follow-Up Of Patients With Stage T2A Prostate Adenocarcinoma After Outpatient Conformal Brachytherapy : Risk Stratification For Treatment Optimization – The Prostate Journal 1(3) : 131-137

Parikh S, Nori D, Osian A et al (2000) : Practical Considerations In Setting Up An Intracoronary Brachytherapy Program : Results Of A Multicenter Survey – Radiology : 217:723-728

### **Abstracts/Presentations**

Anderson, L.L., Osian, A.D., Optimizing Algorithms for the Selectron remote afterloader. In: Programme and Abstracts , 4th International Selectron User's Meeting, September 15-17, 1986, Vancouver, B.C. 1986:95-97.

Anderson, L.L., Hilaris, B.S., Osian, A.D. New York System of Dosimetry. American Endocurietherapy Society Ninth Annual Mid-Winter Meeting, San Juan, Puerto Rico , December 2-4,1986 .Endocurietherapy/Hyperthermia Oncology 1986: 2 ; 221-222

Nori, D., Kaufman, N., Linares, L.A., Osian, A.D., Perez, T., Harrison, L., Fass, D., Forman, J., Hilaris, B.S., Remote afterloading intraluminal brachytherapy in the treatment of persistent or reccurent anal, rectal, and sigmoid cancer: A feasibility study. Tenth Annual Mid-Winter Meeting of the American Endocurietherapy Society, Lake Tahoe, Nevada, January 19-21, 1988.

Malkin, M.G., Arbit, E., Fass, D.E., Anderson, L.L., Osian A.D., Rosenblum M.K., Shapiro, J.R., Leibel, S.A., Shapiro, W.R. Stereotaxic Implantation of Removable, High-Activity, Iodine-125 Sources for the Treatment of Malignant Glioma.American Academy of Neurology Meeting, Chicago April 16. Neurology 1989 ; 39 [Suppl 1] : 263.

Harrison, L.B., Sessions, R.B., Strong, E.W., Bass, D.B., Nori, D., Osian, A.D., Fuks, Z. The Management of Squamous Cancer of the Base of the Tongue with Brachytherapy. Eleventh Annual Mid-Winter Meeting of the American Endocurietherapy Society, Marco Island, Florida, December 8-10, 1988. Endocurietherapy/Hyperthermia Oncology 1989 ; 5 : 61

Perez, T., Nori, D., Hilaris, B.S., Osian, A.D., Linares, L.,A., Anderson, L.L., C.T. Guided Transperineal Implants in Pelvic Tumors.Eleventh Annual Mid-Winter Meeting of the American Endocurietherapy Society, Marco Island, Florida, December 8-10, 1988. Endocurietherapy/Hyperthermia Oncology 1989 ; 5 : 67

Adrian D. Osian , Lowell L. Anderson , Dattatreyyudu Nori . Low Dose Rate Selectron Optimization for Henschke Cervix Applicator. Twelveth Annual Mid-Winter Meeting of the American Endocurietherapy Society,Hilton Head,South Carolina ,December 6-9,1989

Dattatreyyudu Nori , David Donath, Basil S. Hilaris, Adrian D. Osian, Kent Wallner, Willet Whitmore, Zvi Fuks. Precision Transperineal Prostate Implants : Technical and Planning Considerations.Twelveth Annual Mid-Winter Meeting of the American Endocurietherapy Society,Hilton Head,South Carolina ,December 6-9,1989

Adrian D. Osian . Planning and Evaluation of the Intraluminal Applications. International Symposium on Remote Afterloading and Brachytherapy, New York Sept 21-22,1990

Dattatreyyudu Nori, Adrian D. Osian. Precision Transperineal Brachytherapy in the Treatment of Early Prostate Cancer. International Symposium on Remote Afterloading and Brachytherapy, New York Sept. 21-22,1990

Adrian D. Osian. Intraluminal Brachytherapy Treatment Planning. International Conference on Thoracic Oncology and Brachytherapy, New York , Sept 12-13, 1991

William Harvey, Dattatreya Nori, Adrian D. Osian. Intraluminal Brachytherapy in Esophageal Cancer: U.S. Experience. International Conference on Thoracic Oncology and Brachytherapy, New York , Sept 12-13, 1991

Adrian D. Osian, William Harvey, Dattatreya Nori. Conformal Brachytherapy for Carcinoma of the Prostate. Forteenth Annual Mid-Winter Meeting of the American Endocurietherapy Society, Las Vegas, Nevada, December 3-6. 1991.

Reddy, N.M.S., Ross, R., Osian, A., Sampath, S., Nori, D. Dose and Dose Rate Gradients in High Dose Rate(HDR) Intraluminal and Intravaginal Brachytherapy. Winter Meeting of the American Endocurietherapy Society , Scottsdale, Arizona, December 2-7, 1993.

Adrian D. Osian. Dose Optimization and HDR Treatment Planning. Forth International Brachytherapy and Remote Afterloading Symposium and Workshops, Palm Beach, Florida May 24-27, 1995

Nori, D., Moni, J., Osian A. Conformal Brachytherapy for Carcinoma of the Prostate. Forth International Brachytherapy and Remote Afterloading Symposium and Workshops, Palm Beach, Florida May 24-27, 1995

Sampath, S., Reddy, N.M.S., Osian A., Ross, R., Narayanaswamy, J., Nori, D. Seed Loss in Interstitial Brachytherapy of Prostate Cancer with Iodine -125 or Palladium - 103. Winter Meeting of the American Brachytherapy Society , Scottsdale, Arizona, December 10-11, 1995

Adrian D. Osian. Standardizing the Planning, Implementation Evaluation and QA Aspects of Intraoperative and Outpatient Brachytherapy. Reasearch co-ordination

meeting on modern techniques in brachytherapy of cancer with special reference to the developing countries. Global Brachytherapy Conference, New York, April 1997

Jia-Zhu Wang, Yijian Cao, Adrian Osian, Dattatreya Nori : Distance-controlled Optimization of Treatment Planning in HDR Brachytherapy for Carcinoma of the Cervix. The 40<sup>th</sup> Annual Meeting of the AAPM, San Antonio, 1998

Parikh S, Nori D, Osian A, Wang H (1999) : Setting Up A Vascular Radiotherapy Program - A Radiation Oncologist's Perspective – Proceedings of the 4th Annual Conference on Vascular Radiation Therapy, New York, NY.

Parikh S, Nori D, Osian A (1999) : Practical Considerations for the use of Ir-192 in the Cath Lab : Experience in the US. Proceedings of the Cordis Satellite Symposium on “Interventional Radiation Therapy - Practical Considerations”, Rotterdam, Netherlands, December 18 - 20

N. Reddy, S. Sampath, A. Mazur, H. Wang, A. Osian, J. Poli, D. Nori (2002): Physical Aspects of Three Dimensional Conformal Treatment Planning for Radiotherapy of Prostate: 4 vs. 6 fields, The 44<sup>th</sup> Annual Meeting of the AAPM, Montreal, 2002