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## **Nicolas G. ZOUAIN, MD.**

Chief of Department of Radiation Oncology at the Clemenceau Medical Center, Beirut, Lebanon.

Assistant Professor of Radiation Oncology at the University of Central Florida, College of Medicine, Orlando, Florida.

Chairman of the Radiation Safety committee at the Clemenceau Medical Center, Beirut, Lebanon.

### **Education:**

June 2006	American Board Certification in Radiation Oncology.
August 2001	American Board Certification in Internal Medicine.
June 1999	French “University Diploma” in Forensic Medicine: Saint-Joseph University, Beirut, Lebanon and CHU Rouen, France.
June 1998	Medical Doctor: Saint-Joseph University, Beirut, Lebanon.
June 1991	French Baccalaureate: Math and Physics class.
June 1991	Lebanese Baccalaureate: Math and Physics class.

**Work Experience:**

July 2014-November 2015: Assistant Professor of Radiation Oncology at the American University of Beirut, Beirut, Lebanon.

Program Director of the Department of Radiation Oncology of the American University of Beirut Medical Center.

January 2014- June 2014: Faculty Staff at the Department of Radiation Oncology at the Florida Hospital, Orlando, Florida.

December 2009- Present: Radiation Oncology Consultant at the North Collier Hospital Health Care System (Mayo Clinic affiliate), Naples, Florida.

December 2009- Present: Radiation Oncology Consultant at the Physicians Regional Healthcare System (previously: Cleveland Clinic, Naples, Florida), Naples, Florida.

December 2009- Present: Radiation Oncology Consultant at Premiere Oncology, Naples, Florida.

December 2008: Clinical Assistant Professor of Radiation Oncology, Department of Internal Medicine, University of North Dakota, School of Medicine and Health Sciences, Fargo, North Dakota.

November 2005-November 2009: Faculty Staff at the Department of Radiation Oncology, Roger Maris Cancer Center, Sanford Health System, Fargo, North Dakota.

**Expertise:**

I have an expertise in different techniques of radiation oncology:

3D Conformal technique.

Orthovoltage superficial treatment.

Electron Therapy.

Low Dose Rate Prostate seeds implant.

Intensity Modulated Radiation Therapy of different body sites.  
RapidArc® IMRT of different body sites.

High Dose Brachytherapy and Interstitial implants of Breast.  
High Dose Brachytherapy and Interstitial implants of Prostate.  
Single and Multi lumen Mammosite® and Contoura® High Dose Rate Brachytherapy of the Breast.  
High Dose Brachytherapy of the uterus, cervix, vaginal cavity, esophagus, rectum, biliary duct, bronchus, skin...  
Brain Radiosurgery: frame and frameless technique.  
Image Guided Radiation Therapy: OBI, Calypso® and CBCT.  
Stereotactic Body Radiation Therapy.  
Novalis TrueBeam STx.  
I am the first radiation oncologist worldwide to use the new Varian® Capri® High Dose rate applicator for the treatment of rectal cancer: April 2011.

## *Research*

### **Publications:**

### *Articles:*

- [18F]-FDG uptake dose-response correlates with radiation pneumonitis in lung cancer patients. McCurdy MR, Castillo R, Martinez J, Al Hallack MN, Lichter J, **Zouain N**, Guerrero T. Radiotherapy and Oncology. (The Green Journal) 2012 Jul;104(1):52-7. doi: 10.1016/j.radonc.2012.04.003. Epub 2012 May 10.
- Raval M, **Zouain N**: “The effectiveness of high dose rate brachytherapy using a special applicator set with external beam radiation treatment and chemotherapy followed by surgery as a treatment of adenocarcinoma of the esophagus: A case series of single institution with literature review”. Journal of Cancer Research and Experimental Oncology Vol. 3(1), pp. 1-7, January 2011.
- Al Hallak M.N, **Zouain N**: “Cervical and Vulvar Intraepithelial Neoplasia after treatment with oral isotretinoin for severe acne vulgaris: A Case Report”. Case Rep Dermatology 2009; 1:49-51.
- Al Hallak M.N, **Zouain N**: “Extramammary Perineal Paget’s disease”. Case Rep Gastroenterology 2009; 3: 332-337.
- Al Hallak M.N, **Zouain N**, McCurdy M, Hayes J: “The level of Europium-154 contaminating the 153Samarium-EDTMP activates the radiation alarm system at the US Homeland Security checkpoints”. Case Rep Oncology 2009 ; 2 :157-161.

- Hayes J, Pfund J, **Zouain N**: “Detection of Europium-154 in Patients Post Samarium-153 EDTMP Therapy Using a Clinical Gamma Camera”. Health Physics; 98(3): 537-541; 2010.
- McCurdy M, **Zouain N**: “Successful treatment of primary vaginal papillary serous adenocarcinoma using chemoradiation followed by brachytherapy”. Case Rep Oncology: 2009;2:97–102.

***Abstract:***

- Sturgeon J, **Zouain N**: “A Survey of Androgen Deprivation Patterns of Practice in Prostate Cancer by Radiation Oncologists in the United States”. Presented as an Abstract and Poster at the ASTRO Annual meeting in 2011 in Miami, Florida.
- M.R McCurdy, T. Guerrero, **N. Zouain**, V. Johnson: “Radiation Pneumonitis: Pulmonary Metabolic Response to Radiation in Lung Cancer Patients” . Presented as an Abstract and Poster at the ASTRO Annual meeting 2009 in Chicago, Illinois.
- “Case report of vaginal primary cancer treated with radiation treatment IMRT and HDR Brachytherapy and concomitant chemotherapy”: a presentation at the annual meeting of University of North Dakota, School of Medicine. This manuscript received the Frank Low research award in 2008.
- “The role of autopsy as quality improvement and teaching tool”: American College of Physician national meeting of 1999.
- “The Minimally Invasive Autopsy”: Richmond Medical Community and American College of Physician local meeting, New York 2000.

***Review:***

Practice guidelines review for the treatment of Non-Small Cell Lung Cancer.

“Treatment of Non Small Lung Cancer with combined radiation-gemcitabine”: a literature review for Lilly® pharmaceutical: 2003.

***Thesis:***

- Thesis: “Gunshot wounds to the head”: Mentor: Prof. Proust; New York, 1999. Thesis presented for the Forensic Medicine Diploma, in Rouen, France.
- Thesis: “Cutaneous melanoma”: Mentor: Prof. Farran; Beirut, 1997. Thesis presented for the Doctor of Medicine diploma in Beirut, Lebanon.

### ***Research Grant:***

2015: Research grant from AUB for studying craniospinal radiation effect on skeletal growth in sheep.

2015: Research grant from Julphar® to study treatment of Radiation dermatitis. Study currently recruiting patients at AUBMC.

2010-2011: Research grant from Varian®.

2006-2009: Research grant from Sanford Health System, Fargo, North Dakota and University of North Dakota, Fargo, North Dakota.

2003: Research grant from Lilly®.

2002: Research grant from Pfizer®.

### ***Research Awards :***

- Frank Low research award from the University of North Dakota, School of Medicine: 2008.
- Recipient of a Research Award for the research project of the “*Minimally Invasive Autopsy*” from the Staten Island University Hospital, New York: 2002.
- Recipient of a Certificate of Achievement from the American Medical Association: 2001.
- Research award at the American College of Physician national meeting for “*The role of the autopsy as quality improvement and teaching tool*”:2000.

### ***Research Experience and Research Projects:***

- 2001- Present: Participation and recruitment of cancer patients in many clinical trials of the RTOG, COG, NCIC, NCI, NSABP: Staten Island University Hospital, University of Montreal, McGill University and Sanford Health System.
- 2008-2010: Retrospective study on the treatment of locally advanced esophageal cancer with a combination of high dose brachytherapy followed by chemo-radiation using IMRT. (published).
- 2009-2011: Retrospective study on specific mortality of patients treated with prostate seeds implants for prostate cancer: University of North Dakota, School of Medicine, Fargo, North Dakota: submitted for publication.
- 2007-2010: Study on the contamination of Samarium 153 with Europium 154 in patients treated for bone metastases: Retrospective study done with the medical residents and physics department of Sanford Health System, Fargo, North Dakota. (published in 2 manuscripts).
- 2011-2013: Retrospective study on prostate cancer patients treated with HDR Brachytherapy at Sanford Health System, Fargo, North Dakota: submitted for publication.
- 2003: Writing of a grant proposal for a phase I/II clinical trial for the treatment of Glioblastoma with Radiation and Gemcitabine.

- 2002: Writing of a grant proposal for a phase I/II clinical trial for the treatment of low grade glioma with Radiation and erythropoietin.
- 2002-2005: Participation in a study of a dose escalation for the prostate cancer: University of Montreal, Quebec.
- 1998-2002: The “Minimally Invasive Autopsy” project: Laparoscopic and needle biopsy autopsy under ultrasound: Staten Island University Hospital, Staten Island, New York. This was a major research project done during my residency in Internal Medicine. This research project was done under the supervision of Pr. McGinn. The goal of the project was to develop alternatives to the traditional open autopsy and to use the autopsies as a teaching tool for the medical residents.
- 2001: Participation in a study on the influence of music on the hormones: Wagner College, New York.
- 2000: Research on the prevalence of fungal infections in the intensive care unit: Pfizer® research grant, New York. Study done under the supervision of Pr. Glazer.
- 2000: Treatment of HIV patients with Dinitrochlorobenzene (DNCB), Diphenylcyopropenone (DNCP) and squaric acid skin patches; phase I/ II clinical trial: Staten Island University Hospital, New York. Study done under the supervision of Dr. Levy.
- 1999-2001: Treatment of Hansen’s disease with IL 12; phase I/II clinical trial: Staten Island University Hospital, New York. Study done under the supervision of Dr. Levy.

### *Teaching Experience*

July 2014- October 2015: Teaching and mentoring of medical residents at the American University of Beirut Medical Center, Beirut, Lebanon.

January 2014- Present: Teaching, mentoring and supervising of medical students, physics students and medical residents at the University of Central Florida, College of Medicine, Orlando, Florida.

December 2009-December 2013: Research supervisor for Medical Residents at the University of North Dakota, Fargo, North Dakota (for continuation of projects that were started).

November 2005-November 2009: Teaching, mentoring and supervising of medical students and medical residents at the University of North Dakota, Fargo, North Dakota.

November 2005-November 2009: Teaching, mentoring and supervising of pharmacy students at the North Dakota State University, Fargo, North Dakota.

2003: Chief Resident of the Department of Radiation Oncology at the University of Montreal, Montreal, Quebec.

July 2001-June 2002: Chief Resident of the Department of Internal Medicine, Staten Island University Hospital, Staten Island, New York.

<i>Professional Activities</i>
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2010-Present: Consultant Radiation Oncologist for AllMed Healthcare Management, Portland, Oregon.

2012-Present: Member of the Review Board for Nucleus Medical Media, Kennesaw, Georgia.

2011-2013: Reviewer for the International Journal of Radiation Oncology, Biology, Physics (Red Journal).

2012-Present: Consultant Radiation Oncologist for Advanced Medical Reviews, Los Angeles, California.

2013-Present: Consultant Radiation Oncologist for Cognolink, London, U.K.

2012-Present: Consultant Radiation Oncologist for Magellan Health Service, Columbia, Maryland.

2003-Present: Senior Medical Researcher in Nanotechnology at NanoMed, Saint-Jean-Sur-Richelieu, Quebec, Canada.

2009-2013: Member of the Mortality/Morbidity committee for Premiere Oncology, Naples, Florida.

2006-2009: Member of the research committee of the University of North Dakota, School of Medicine, Fargo, North Dakota and Sanford Health System, Fargo, North Dakota.

2006-2009: Chairman of Gastro-Enterology Cancer committee of Sanford Health System, Fargo, North Dakota.

2006-2009: Member of the Lung Cancer committee of Sanford Health System, Fargo, North Dakota.

2006- 2009: Member of the Breast Cancer committee of Sanford Health System, Fargo, North Dakota.

2006-2009: Member of the Quality Control committee for the Department of Radiation Oncology at the Sanford Health System, Fargo, North Dakota.

2006-2009: Member of the Morbidity/Mortality committee for the Sanford Health System, Fargo, North Dakota.

2001-2002: Member of the quality control and case management committee for the Department of Internal Medicine at Staten Island University Hospital, New York.

2002: Physician at the Coumadin Center of the Staten Island University Hospital, Staten Island, New York.

1999-2001: Organ transplant technician for the New York Tissue Service Inc, New York.

