

# CURRICULUM VITAE

## BIOGRAPHICAL

NAME: **GARY MARK ONIK, M.D.**  
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### **Biographical**

Gary Onik MD, while still in radiology residency training, published the first article suggesting the possibility of image guided thermal tumor ablation; destroying a tumor through freezing or heating and then leaving it to be resorbed by the body. In 1982, using cryosurgical ablation under ultrasound guidance he developed the first new potentially curative treatment for unresectable liver cancer patients. This work spawned image guided RF ablation of liver tumors and subsequently the field, of what is now a 4th branch of oncology, called "Interventional Oncology".

On a parallel research tract Dr. Onik developed one of the first successful minimally invasive spinal procedures, Automated Percutaneous Lumbar Discectomy (APLD), which is still being used almost twenty five years after it's initial introduction.

Concurrently with his work in hepatic cancer ablation, and spinal surgery. Dr Onik developed the instrumentation and techniques that allowed for the cryosurgical ablation of prostate cancer, which is now an accepted alternative to radiation and radical prostatectomy and the preferred treatment for patients with prostate cancer who have failed radiation therapy.

His concept of "focal therapy" of prostate cancer, treating only the prostate tumor rather than the whole gland, similar to a breast lumpectomy, is now a major research and treatment initiative in all of the major prostate cancer centers in the world.

His recent development of "Irreversible Electroporation" (IRE) "Nano Knife" the first "non thermal" tumor ablation modality is now being used to successfully treat inoperable pancreatic carcinoma, a recently published study indicating it can double overall survival time. This modality also promises effective treatment for other inoperable tumors including those of the head and neck and the brain.

The concepts and techniques he developed have had a major impact on the treatment of cancer patients throughout the world and his work has been recognized by awards given to him by major societies in both medicine and engineering.

## EDUCATION AND TRAINING

### **UNDERGRADUATE:**

1970-1974	Harvard University Cambridge, MA	BA 1974
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### **GRADUATE:**

1974-1978	New York Medical College Valhalla, NY	MD 1978
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### **POST GRADUATE:**

1978-1979	University of Minnesota Minneapolis, MN	Internship Internal Medicine
1979-1981	Lompoc Federal Penitentiary Lompoc, CA	Chief, Health Programs/US Public Health Service
1981-1984	University of California San Francisco, CA	Residency Diagnostic Radiology
1984-1985	New England Deaconess Harvard Medical School Boston, MA	Fellowship CT/Ultrasound Radiology
1985-1986	New England Deaconess Harvard Medical School Boston, MA	Research Fellow Interventional Radiology
2009-2010	Landing School Kennebunkport ME.	Boat systems student ABYC certified Master Marine Technician
2010-2011	Langkawi Sailing School	Royal Yachting Association Yachtmaster Offshore Certified

## APPOINTMENTS AND POSITIONS

### **ACADEMIC:**

1987-1990	University of Pennsylvania Philadelphia, PA	Adjunct Assistant Professor of Radiology
1989-1990	University of Pittsburgh Pittsburgh, PA	Associate Professor of Radiology and

		Neurosurgery
1991-1994	Medical College of Pennsylvania Allegheny Campus	Professor of Neurosurgery
1994-1995	University of Florida Gainesville, FL	Visiting Associate Professor Department of Surgery
2008-2010	University of Central Florida Medical School, Orlando FL.	Professor of Radiology
2008-2009	Hebrew University of Jerusalem School of Engineering and Computer Science	Visiting Professor
2013-present	Carnegie Mellon University Department of Mechanical Engineering	Adjunct Professor
 <b><u>NON-ACADEMIC POSITIONS:</u></b>		
1986-1989	Allegheny-Singer Research Allegheny General Hospital Pittsburgh, PA	Senior Scientist Neurosurgery Department
1989-1991	University of Pittsburgh Pittsburgh, PA	Director of Interventional Radiology Research
1991-1994	Allegheny General Hospital Pittsburgh, PA	Director, Division of Cryomedicine Department of Neurosurgery
1994-1996	Princeton Hospital Orlando, FL	Chairman, Department of Minimally Invasive Therapy
1996-1999	Center for Diagnostic Imaging Orlando, FL	Medical Director,
2000-2009	Celebration Health Center for Surgical Advancement	Director of Surgical Imaging
2013-present	Center for Recurrent and High Risk Prostate Cancer,	Director

## CERTIFICATION AND LICENSURE

### SPECIALTY CERTIFICATION:

1986                      Certified Board of American College  
of Radiology

### MEDICAL LICENSURE:

Florida License: ME0068729

## HONORS

1977                      Alpha Omega Alpha - Honor Medical Society

1978                      Dr. and Mrs. David Harrison Scholarship Award:  
Presented to member of graduating  
class who has achieved highest scholastic  
average during the four years.

1978                      Radiology Award - New York Medical College  
Presented each year to the graduate  
student who has shown the most  
proficiency in the specialty of  
radiology.

1978                      Samuel Spiegel, M.D., Award - Highest class  
standing in the four years.

1978                      David Spiro, M.D., Ph.D., Award - Presented to  
a graduating student for outstanding  
achievement in the undergraduate study  
of pathology.

1983                      National Institute of Health (NIH), Oncologic Imaging Research Fellow

1984                      Executive Council Award  
American Roentgen Ray Society  
Award for research demonstrating the  
ultrasound visualization of cryosurgery  
in the liver.

1984                      Damon Runyon-Walter Winchell Cancer Fund  
Fellowship.

1986                      Roscoe E. Miller Award

Society of Gastrointestinal Radiology  
Award for most original research presented.  
Topic was "First Human Hepatic Cryosurgery  
Experience".

- 1987 RSNA - Scientific Exhibit Award - Magna Cum  
Laude  
Automated Percutaneous Discectomy  
in the Treatment of Herniated Lumbar  
Discs
- 1987 RSNA - Scientific Exhibit Award - Honorable  
Mention  
Hepatic Cryosurgery in the Treatment of  
Unresectable Liver Tumors. Human Study  
Cryosurgery.
- 1988 Presented Seal of Turin - Turin, Italy  
Honorary Citizen - for accomplishments  
in spine surgery.
- 1994 RSNA - Scientific Exhibit Award – Certificate of Merit  
MR Imaging for monitoring cryosurgery
- 2001 Chosen as a "Visionary Radiologist" by Diagnostic Imaging.
- 2002 Nominated for the Russ Prize (Highest Award of the National Academy of  
Engineering in bioengineering)
- 2002 R and D 100 Award- Given to the 100 most significant technological  
advances of the year. For the “Bionic Chip” developed by Excellin Inc.
- 2003 Elected Honorary Member of Florida Urology Society
- 2004 1st Prize, Best Research Paper, Society of Uroradiology  
Focal cryosurgery for prostate cancer “A Male Lumpectomy”
- 2007 “Gold Award” International Society of Cryosurgery. For lifetime  
achievement in the field of cryosurgery.

<b>GRANTS</b>
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NIH Grant Number: 1 R01 CA56898  
Amount: \$1,472,626.00

Title: MRI Assisted Cryosurgery

Dates: March 15, 1993 - March 14, 1997

V Foundation- 3D Ultrasound for use in transperineal mapping biopsies of the prostate. 2005-2006. Amount \$50,000

### **Membership Professional Associations**

1984-2008 Radiologic Society of North America  
1986-1998 American College of Cryosurgery, President 1998  
2012-present American Urologic Association

### **Professional Business Experience**

1986-1993 Founded the company **Surgical Dynamics Inc.** to develop and market minimally invasive spine product. Surgical Dynamics was later sold to US Surgical for \$64 million.

1997-1999 Co-Founder "**Advanced Medical Procedures**". Company provided mobile cryosurgery services, and education to urologists and surgical oncologists. **AMP** was purchased on a stock for stock exchange by Endocare Inc.

2004-2008 Co-Founder "**Oncobionic Inc.**" A company in the field of irreversible electroporation for treating cancer. Developed the first clinically usable Irreversible electroporation device the NanoKnife.

### **MEDIA EXPERIENCE**

Dr. Onik has made appearances on national news shows to include, ABC World News tonight, Good Morning America, 20/20, CNN, as well as 2 stories placed with Ivanhoe Productions that were distributed nationally reaching 84 million viewers. Print media include Time magazine, The New York Times, Readers Digest, The Wall Street Journal and numerous other magazines and newspapers.

### **SPEAKING EXPERIENCE**

Dr. Onik has made over 200 presentations nationally and internationally to both professional and lay audiences.

### **PATENTS**

- 1.** Rubinsky Boris, Onik Gary, Finkelstein J J, Neu Dan, Jones Steve: Cryosurgical system for destroying tumors by freezing. Cryomedical Sciences August 1994: US 5334181 (38 worldwide citation)
- 2.** Cosman Eric Richard, Onik Gary Mark: A hand-held body stereotactic instrument. Cosman Eric Richard February 1991: EP0414130 (3 worldwide citation)
- 3.** Onik Gary, Ginsburg Leonard: Irrigating, cutting and aspirating system for percutaneous surgery. E-Z-EM July 1987: US 4678459 (66 worldwide citation)

4. Onik Gary M, Cosman Eric R, Wells Trent H: Method and apparatus for stereotaxic placement of probes in the body utilizing CT scanner localization. April 1986: US 4583538 (60 worldwide citation)
5. Cosman Eric R, Onik Gary M: Localization device for probe placement under CT scanner imaging. June 1989: US 4838265 (31 worldwide citation)
6. Baust John G, Chang Zhao H, Cohen Jeffrey, Onik Gary, Reyes George: Closed circulation tissue warming apparatus and method of using the same in prostate surgery. Cryomedical Sciences August 1995: US 5437673 (17 worldwide citation)
7. Downey Donal, Fenster Aaron, Onik Gary: System, employing three-dimensional ultrasonographic imaging, for assisting in guiding and placing medical instruments. Life Imaging Systems June 1998: WO 1998/023214 (4 worldwide citation) Rubinsky Boris, Onik Gary, Mikus Paul: Methods and systems for treating tissue sites using electroporation. Angiodynamics June 2008: WO 2008/070521
8. Onik Gary Mark: Apparatus for stereotaxic placement of probes in the body utilizing ct scanner localization. Onik Gary Mark November 1985: EP0160238 (3 worldwide citation)
9. Klyce Henry, Clawson Benjamin S, Onik Gary, Chernack Milton P: Introduction set with flexible trocar with curved cannula. Surgical Dynamics March 1989: WO 1989/001797 (3 worldwide citation)
10. Onik Gary: Patient isolation bag. January 1990: US 4895171 (1 worldwide citation)
11. Whitmore Iii Willet Francis, Schenck Arthur J, Onik Gary M: Real time ultrasound monitoring of the motion of internal structures during respiration for control of therapy delivery. Civco Medical Instruments June 2006: WO 2006/057911 (1 worldwide citation)
12. Onik Gary, Reyes George, Pottorff Larry, Cohen Jeffrey: Biopsy needle insertion guide for prostate cryosurgery. Cryomedical Sciences January 1995: WO 1995/002663 (1 worldwide citation)
13. Rubinsky Boris, Onik Gary, Mikus Paul: Methods and systems for treating tumors using electroporation. Oncobionic March 2008: EP1898997
14. Rubinsky Boris, Onik Gary, Mikus Paul: Methods and systems for treating restenosis sites using electroporation. Oncobionic March 2008: EP1898996
15. Rubinsky Boris, Onik Gary, Neu Dan, Jones Steve, Finkelstein J J: Cryosurgical instrument and system and method of cryosurgery. Cryomedical Sciences July 1993: EP0550666
16. Rubinsky Boris, Onik Gary, Neu Dan, Jones Steve, Finkelstein J J: Cryosurgical instrument and system and method of cryosurgery. / Instrument de cryochirurgie et systeme et methode de cryochirurgie. Cryomedical Sciences March 1992: CA 2091893
17. Rubinsky Boris, Mikus Paul, Onik Gary: 通過實時成像控制的電致孔. / Electroporation controlled with real time imaging. University of California January 2009: HK 1116647
18. Rubinsky Boris, Mikus Paul, Onik Gary: Electroporation controlled with real time imaging. University of California November 2006: WO 2006/116608
19. Whitmore Iii Willet F, Wilson Roger F, Onik Gary M, Barzell Winston E, Brauner Stephen E: Support system for use when performing medical imaging of a patient. Civco Medical Instruments October 2005: WO 2005/096764

20. Onik Gary M: Combined electrosurgical-cryosurgical instrument. Onik Gary M September 2001: WO 2001/067975
21. Rubinsky Boris, Mikus Paul, Onik Gary: Electroporation controlled with real time imaging. Univ California January 2008: EP1874191
22. Rubinsky Boris, Onik Gary, Mikus Paul: Methods and systems for treating tumors using electroporation. Oncobionic January 2007: WO 2007/001747
23. Rubinsky Boris, Onik Gary, Mikus Paul: Methods and systems for treating fatty tissue sites using electroporation. Oncobionic January 2007: WO 2007/001750
24. Rubinsky Boris, Onik Gary, Mikus Paul: Methods and systems for treating BPH using electroporation. Oncobionic January 2007: WO 2007/001751
25. Rubinsky Boris, Onik Gary, Mikus Paul: Methods and systems for treating restenosis sites using electroporation. Oncobionic January 2007: WO 2007/001753
26. Whitmore Willet F III, Wilson Roger F, Onik Gary M, Barzell Winston E, Brauner Stephen E: Support system for use when performing medical imaging of a patient. Civco Medical Instruments May 2009: CN 200580016629
27. Rubinsky Boris, Onik Gary, Mikus Paul: Methods and systems for treating bph using electroporation. Oncobionic March 2008: EP1898993
28. Fenster Aaron, Onik Gary, Downey Donal B: System, employing three-dimensional ultrasonographic imaging, for assisting in guiding and placing medical instruments. / Systeme mettant en oeuvre une imagerie ecographique tridimensionnelle et servant au guidage et au placement d'instruments medicaux. Life Imaging Systems June 1998: CA 2271651
29. Onik Gary, Miessau James, System and method for creating radiofrequency energy electrical membrane breakdown for tissue ablation. US PAP. 2015/0150618

<b>BOOKS</b>
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1. Percutaneous Automated Lumbar Discectomy. **Gary Onik** and Clyde Helms, Editors, University of California San Francisco (UCSF) Radiology Research Foundation, San Francisco, 1988
2. Atlas of Automated Percutaneous Lumbar Discectomy, (APLD) According to the Onik, Method. A. Solini, **Gary Onik**, Consulting Editor, Springer-Verlag, Wien, New York 1989 and Aulo Gaggi, Editore, Bologna, Italy
3. Hepatic Metastases: Diagnosis and Management. Edited by DL Morris, CS McArdle, and **Gary Onik**. Heinemann, Oxford, England. 1996
4. Percutaneous Prostate Cryoablation. Edited by **Gary Onik**, Boris Rubinsky, Graham Watson, and Richard Ablin. Quality Medical Publishing, St Louis, MO. 1995
5. Prostate Cancer, A Patient's Guide to Treatment. Arthur Centeno MD and Gary Onik MD Addicus Books 2004



6. Male Lumpectomy: A Rational New Approach to Treating Prostate Cancer.  
Gary Onik MD  
Authorhouse Books. 2005

7. Male Lumpectomy. Focal Therapy for Prostate Cancer. 2nd Edition. Gary  
Onik MD and Karen Barrie. Authorhouse Books. 2007

## PUBLICATIONS

1. Onik G, Recht L, Edwards JE, Sarosi GA, Bianco JA, Shafer RB. False left ventricular aneurysm: Diagnosis by noninvasive means. J Nuc Med 1980;182:177-182
2. Onik GM, Goodman P. CT appearance of Castleman's disease. AJR 1983;140:691-692.
3. Onik GM, Cooper C, Goldberg HI, Moss AA, Rubinsky B, Christianson M. Ultrasonic characteristics of frozen liver. Cryobiology 1984;21:321-328.
4. Onik G, Goodman PC, Webb WR, Brasch RC. Hydropneumothorax: Detection on supine radiographs. Radiology, 1984;152:31-34 (Abstracted in Yearbook of Diagnostic Radiology 1986).
5. Gilbert JC, **Onik GM**, Hoddick WK, Rubinsky B. The use of ultrasound imaging for monitoring cryosurgery. IEEE. Proceedings 6th Annual Conference, 1984;107-111.
6. Onik GM, Gilbert J, Hoddick W, Filly R, Callen P, Rubinsky B. Sonographic monitoring of hepatic cryosurgery in an experimental animal model. AJR 1985;144:1043-1047 (Executive Council Award, American Roentgen Ray Society).
7. Onik GM, Helms C, Ginsburg L, Hoaglund FT, Morris J. Percutaneous Lumbar Discectomy using a new aspiration probe. AJNR 1985;6:290-293 (Abstracted Yearbook of Neurology 1987).
8. Onik GM, Cosman E, Wells T, Moss AA, Goldberg HI, Costello P. CT body stereotaxic instrument for percutaneous biopsy and other interventional procedures. Phantom Studies.

Inves Radiol 1985;20:525-530.

9. Onik GM, Helms CA, Ginsberg L, Hoaglund F, Morris J. Percutaneous lumbar discectomy using a new aspiration probe: Porcine and cadaver model. Radiology 1985;155: 251-252.
10. Gilbert JC, **Onik GM**, Hoddick WK, Rubinsky B. Realtime ultrasound monitoring of hepatic cryosurgery. Cryobiology 1985;22:319-330.
11. Onik GM, Kane R, Cady B, et al. Monitoring hepatic cryosurgery with sonography. AJR 1986;147:665-669 (Roscoe E. Miller Award, Society of Gastrointestinal Radiology).
12. Gilbert JC, **Onik GM**, Hoddick WK, Rubinsky B, Ferrel LD. Ultrasound monitored hepatic cryosurgery, longevity study on an animal model. Cryobiology 1986;23:277-285.
13. Onik GM, Costello P, Cosman E, et al. CT body stereotaxis: An aid for CT-guided biopsies. AJR 1986;146:163-168.
14. Onik GM, Cosman E, Wells T, et al. CT body stereotaxic system for placement of needle arrays. Int J Radiation Oncology Biol Phys 1987;13(1):121-128.
15. Onik GM, Maroon JC, Helms C, et al. Automated percutaneous discectomy: Initial patient experience. Radiology 1987;162: 129-132.
16. Maroon J, **Onik GM**. Percutaneous automated discectomy: a new method for lumbar disc removal. J Neurosurg 1987; 66:143-146 (Abstracted Yearbook of Neurosurgery).
17. Onik G, Mooney V, Wiltse L, et al. Percutaneous automated discectomy in treatment of herniated lumbar discs. Radiology 1987;165, Suppl. 78.
18. Ravikumar TS, Kane R, Cady B, Jenkins RL, McDermott W, **Onik G**, Clouse M, Steele G. Hepatic cryosurgery with intraoperative ultrasound monitoring for metastatic colon carcinoma. Arch Surg 1987;122:403-409.
19. Costello P, **Onik GM**, Cosman E. Computed tomographic-guided stereotaxic biopsy of thoracic lesions. J Thorac Imag 1987;2(2):27-32.
20. Joseph Maroon and **Gary Onik**. A New Technique for Lumbar Disc Removal, *Frontiers of Medicine*, Hospital Physician, 1987;

23(4):95-100.

21. Onik G, Cosman E, Wells T, et al. CT-guided aspiration for the body: Comparison of hand guidance with stereotaxis. Radiology 1988;166:389-394.
22. Maroon J, **Onik GM**, Day A. Percutaneous automated discectomy in athletes. The Physician and Sports Medicine 1988;16(8):61-76.
23. Reich J, **Onik GM**, Maroon J. Intracerebral biopsy hemorrhage, monitoring and intervention guided by intraoperative ultrasound. AJNR 1988;9:1240-1241.
24. Onik GM, Cobb C, Cohen J, Zabkar J, Porterfield B. Ultrasound characteristics of frozen prostate. Radiology 1988;168(3):629-631.
25. Onik GM, Maroon JC, Day A, Helms C. Automated percutaneous discectomy: Preliminary experience. ACTA Neurochirurgica 1988;571 ACTA Suppl. 43/062.
26. Chin JK, Pile-Spellman J, **Onik G**, Taveras JM, Davis KR. Percutaneous lumbar discectomy: a canine model. AJNR 1988;9:1004.
27. Lufkin R, Duckwiler G, Spickler E, Teresi L, Chang M, **Onik G**. MR body stereotaxis: An aid for MR-guided biopsies. J Comput Assist Tomogr 1988;12(6):1088-1089.
28. Onik G, Maroon J. Percutaneous automated discectomy -- a less invasive alternative for the treatment of herniated lumbar discs. Perspectives in Radiology 1988;1(2):1-31.
29. Helms CA, Munk PL, Witt WS, Davis GW, Morris J, **Onik GM**. Retrorenal colon: Implications for percutaneous discectomy. Radiology 1989;171:864-865.
30. Kaufman HH, Herschberger JE, Maroon JC, Wilberger JE, **Onik, GM**. Mechanical aspiration of hematomas in an in vitro model. Neurosurgery 1989;25(3):347-350.
31. Maroon J, **Onik GM**, Sternau L. Percutaneous automated discectomy, a new approach to lumbar surgery. Clinical Orthopedics and Related Research 1989;238:64-70.
32. Onik GM, Maroon J, Davis GW. Automated percutaneous discectomy at the L5-S1 level -- use of a curved cannula. Clinical Orthopedics and Related Research 1989;238:71-76.

33. Davis GW, **Onik GM**. Clinical experience with automated percutaneous discectomy. Clinical Orthopedics and Related Research 1989;238:98-103.
34. Clark M, Kane RA, Steele G, Hamilton ES, Ravikumar T, **Onik, G**, Clouse M. Prospective comparison of preoperative imaging and intraoperative US in the detection of liver tumors. Surgery 1989;106(5):849-855.
35. Onik GM. Transperineal prostate cryosurgery under transrectal ultrasound guidance. Seminars in Interventional Radiology 1989;6(2):90-96.
36. Helms C, **Onik GM**, Davis GW. Automated percutaneous lumbar discectomy. Skeletal Radiology 1989;18(8):579-583.
37. Rubinsky B, Lee CY, Bastacky J, **Onik GM**. The process of freezing and the mechanism of damage during hepatic cryosurgery. Cryobiology 1990;27(1):85-97.
38. Onik G, Shang Y, Maroon JC. Automated percutaneous biopsy in postoperative diskitis: A new method. AJNR 1990;1:391-393 (Abstracted in Key Interventional Radiology, July 1990, Mosby Year Book, Inc., Chicago, IL).
39. Onik GM, Maroon J, Shang Y. Far-lateral disc herniation: Treatment by automated percutaneous discectomy. AJNR 1990;11:865-868 (Abstracted in Year Book of Orthopedics, 1991, Mosby Year Book, Inc., Chicago, IL).
40. Onik G, Mooney V, Maroon JC. Automated percutaneous discectomy: A prospective multi-institutional study. Neurosurgery 1990;26:228-233 (Abstracted Key Neurology and Neurosurgery, the 1991 Year Book, Inc., Chicago, IL). (Abstracted 1991 Year Book of Diagnostic Radiology, Mosby Year Book, Inc., Chicago, IL).
41. Onik GM, Shang Y, Maroon J, Eichenblat M, Mercer D, Bailes J. Percutaneous automated biopsy in the diagnosis of primary infectious spondylitis. J of Neurosurgery 1990;26(2):234-237.
42. Onik G, Porterfield B, Rubinsky B, Cohen J. Percutaneous transperineal prostate cryosurgery using transrectal ultrasound guidance: animal model. Urology 1991;37(3):277-281.
43. Onik G, Helms CA. Automated percutaneous lumbar

- discectomy. Review Article. AJR 1991;156:531-538.
44. Onik G, Rubinsky B, Zemel R, et al. Ultrasound guided hepatic cryosurgery in the treatment of metastatic colon carcinoma: Preliminary results. Cancer 1991;67:901-907.
  45. Onik G, Rubinsky B, Zemel R, Diamond D. Cryosurgery in the management of hepatic malignancy. Contemporary Oncology 1991;1(5):20-24.
  46. Davis GW, **Onik GM**, Helms CA. Automated percutaneous discectomy, a prospective study. Spine 1991;16(3):359-363 (Abstracted Key Neurology and Neurosurgery, 1992 Year Book, Chicago, IL).
  47. Rubinsky B, **Onik G**. Cryosurgery: advances in the application of low temperatures to medicine. Int. J. Refrig 1991;14: 190-199.
  48. Onik G. Automated percutaneous lumbar discectomy. The Mount Sinai Journal of Medicine 1991;58(2):151-158.
  49. Onik G, Maroon JC, Jackson R. Cauda equina syndrome secondary to an improperly placed Nucleotome probe. Neurosurgery 1992;30:412-415.
  50. Gerrish CW, Donnelly JM, **Onik GM**. Automated percutaneous discectomy: the role of the physical therapist. Journal of Orthopedics and Sports Physical Therapy 1992;15(1):2-9.
  51. Maroon JC, **Onik G**, Quigley MR, Bailes JE, Wilberger JE, Kennerdell JS. Cryosurgery re-visited for the removal and destruction of brain, spinal and orbital tumors. Neurological Research 1992;14:294-302.
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  53. Onik GM, Reyes G, Cohen JK, Porterfield B. Ultrasound characteristics of renal cryosurgery. Urology 1993;42: 212-215.
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  55. Onik GM, Cohen JK, Reyes GD, Rubinsky B, Chang ZH, Baust J.

- Transrectal ultrasound-guided percutaneous radical cryosurgical ablation of the prostate. Cancer 1993;72(4).
56. Rubinsky B, Gilbert JC, **Onik GM**, Roos MS, Wong STS, Brennan KM. Monitoring cryosurgery in the brain and in the prostate with proton NMR. Cryobiology 1993;30:191-199.
  57. Maroon JC, **Onik G**, Vidovich DV. Percutaneous discectomy for lumbar disc herniation. Neurosurgery Clinics of North America 1993;4(1):125-134.
  58. Onik G, Zemel R, Atkinson D, Weaver ML, Reyes G. Use of a biplane transrectal ultrasound probe in hepatic cryosurgery: Technical note. Minimally Invasive Therapy, 1993: 2:309-312
  59. Lee F, Bahn D, McHugh T, **Onik GM**, Jr. Lee F. Ultrasound-guided percutaneous cryoablation of prostate cancer. Radiology 1994;192:769-776.
  60. Gary Onik. Cryosurgery. Critical Reviews in Oncology/Hematology.
  61. Onik G, Richardson D, Amaral J, Jennings W, Sholes A. Percutaneous anterior discectomy under ultrasound guidance. Minimally Invasive Neurosurgery. No. 2, Vol. 38 1995; 90-95.
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  63. Percutaneous Intradiscal Approach to the Posterior Annulus Using a Carved Cannula and a Flexible Nucleotome: A Technical Note. Minimally Invasive Therapy. 1996:5: 91-94.
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  66. Chin, JL, Downey DB, Onik G, Fenster A. Three-Dimensional prostate ultrasound and its application to cryosurgery. Tech Urology2:187-193,1996.
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treatment of primary prostate cancer: a new approach to preserving potency.  
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prostate cryoablation. A review. Technol Cancer Res Treat. 2004 Aug;3(4):365-  
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impedance tomography of minimally invasive surgery. Technol Cancer Res Treat.  
2004 Apr;3(2):125-34.
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3rd, Lee FT Jr. Life-threatening hypertensive crises in two patients  
undergoing hepatic radiofrequency ablation. Am J Roentgenol. 2003 Aug;  
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surgical epicardial atrial ablation: irreversible electroporation. Heart Surg Forum.  
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Appearance Model For Prostate Segmentation in Ultrasound Images. Conf Proc  
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modality--clinical implications. Technol Cancer Res Treat. 2007 Feb;6(1):37-48.

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