WARREN GENERAL

Two Crescent Park West • P.O. Box 68 • Warren, Pennsylvania 16365-0068

Br. 1

October 23, 2006

RECEIVED
REGION 1
2006 OCT 26 PM 1:22

United States Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Re: License # 37-17863-01 03013549

Dear NRC,

We are writing to amend our current license to add Dr. Leroy Korb as an authorized user under 10 CFR 35.300 for the injection of Quadramet, a samarium therapeutic agent that will be used for relief of pain in metastatic bone lesions. The procedure has been reviewed by our Radiation Safety Committee and has been approved pending our license amendment.

Dr. Korb has previously been licensed for 10 CFR 35.300 for this procedure while at the West Virginia University Hospitals, license # 47-23066-02.

The Quadramet solution is manufactured by Cytogen and is delivered in single-dose 10 cc glass vials containing an activity of 150 mCi. The dosages will be calibrated on site using the nuclear medicine dose calibrator.

The solution will be delivered to the Department of Nuclear Medicine and administered in the Warren General Hospital.

We have attached a copy of Dr. Korb's resume for your review.

Sincerely,

Lawrence G. Lareau, MD

Lawrence Lareau, M.D.
Radiation Safety Officer

139652
NMSS/RGN1 MATERIALS-002

CURRICULUM VITAE

Leroy J. Korb, M.D.

BUSINESS ADDRESS AND PHONE NUMBER

Director of Radiation Oncology
Warren Cancer Care Center
Warren, PA 16365
814-723-7906
Korb@wgh.org

BIRTHDATE and BIRTHPLACE

[redacted]

UNDERGRADUATE TRAINING

Carnegie-Mellon University — 1975-1979
Pittsburgh, PA
B.S. Chemical Engineering with Minor in Colloids, Polymers, and Surfaces

GRADUATE TRAINING

West Virginia University Medical School — 1982-1986
Morgantown, Virginia
Doctor of Medicine

INTERNSHIP

Hamot Medical Center — 1986-1987
Transitional Internship
Erie, PA

RESIDENCIES

University of Virginia — 1987-1990
Charlottesville, VA — Radiation Oncology

University of Virginia — 1990-1991
Charlottesville, VA — Chief Resident-Radiation Oncology

LICENSURE

Washington — 1998

CERTIFICATION BY SPECIALTY BOARDS

The American Board of Radiology — 1991
Radiation Oncology

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

SPECIAL CLINICAL EXPERIENCE

Prostate Seed Implantation
Pediatric Radiation Oncology
Intraoperative Brachytherapy
High Dose Rate Brachytherapy
Stereotactic Radiosurgery
Gamma Knife Radiosurgery
Whole Body Radiotherapy

MEMBERSHIPS

American Brachytherapy Society
American College of Radiation Oncology
American Medical Association
American Radium Society
American Society for Therapeutic Radiology

MANUSCRIPT REVIEWER

Cancer
Urology
The Prostate
Medical Dosimetry
Krames Communications – Bladder Cancer Booklet

CLINICAL INVESTIGATOR

National Surgical Adjuvant Breast Project	1992-1998
Southwest Oncology Group	1992-1993
Eastern Cooperative Oncology Group	1993-1998
Pediatric Oncology Group	1993-1998
Nucletron Corporation	1995-1998
US Bioscience, Inc.	1995-1998
Mentor, Inc	2000
Amgen, Inc.	2001
Uromed, Inc	2001

GRANT SUPPORT

Nucletron Corporation
High Dose Rate Radiotherapy Physics Research
Co-Principle Investigator: C. B. Saw, Ph.D.
Project Period: 1/1/95-12/31/96

US Bioscience, Inc.
Phase III Trial of Radiation Therapy +/- Amifostine in Patients with Head and Neck Cancer
Institutional Principal Investigator
Project Period: 1997-1998

PRINCIPLE COMMITTEES

Medical Advisory Board, *CancerLifeline*	2000-present
Northwest Hospital Cancer Review Committee	1999-present
Pacific Northwest Cancer Foundation	1998-1999
Board of Directors, Morgantown Hospice	1995-1998
WVUH Cancer Review Committee	1993-1998
WVU Faculty Senate Hearing Committee	1995-1998
Mary Babb Randolph Cancer Center Strategic Planning Committee	1996-1998

STATEWIDE COMMITTEES

WV State Medical Association Cancer Committee	1996-1998
WV State Medical Association Legislative Committee	1996-1998

OTHER COMMITTEES

American Cancer Society Speakers Bureau	1995-present
Breast Cancer Screening Program Committee	1993
Cancer Center Director Search Committee	1993-1994
Neuro-PET Faculty Search Committee	1993
Radiology Promotion and Tenure Committee	1993-
WVUH Advisory Committee for Education in Radiology	1993-1998
WVUH Capital Budget Committee	1996
WVUH Clinical Cancer Council	1995-1998
WVU Otolaryngology Search Committee	1995-1998
WVUH Protocol Committee	1993-1998
WVU Radioactive Drug Research Committee	1996-1998
WVU Radiology Incentive/Compensation Committee	1997

APPOINTMENTS

Assistant Professor Department of Radiation Oncology University of Washington Medical Center, Seattle, WA	2003-2004
Director of Radiation Oncology Northwest Prostate Institute, Seattle, WA	1998-2003
Medical Director Isoray, LLC, Richland, WA	1999-2004
Consulting Physician - Clinical Trials Gerald P. Murphy Cancer Foundation, Seattle, WA	2000-present
Associate Professor and Section Chief Department of Radiology, Division of Radiation Oncology Mary Babb Randolph Cancer Center West Virginia University	1993-1998
Medical Director Radiation Therapy Technology Program Ruby Memorial Hospital, W. Virginia Univ. Health Science Center	1993-1998

Medical Staff - Radiation Oncology Monongalia General Hospital; Morgantown, WV	1996-1998
Consultant – Radiation Oncology United Hospital Center; Clarksburg, WV	1994-1998
Consultant – Radiation Oncology Veterans Affairs Medical Center; Clarksburg, WV	1994-1998
Consultant – Radiation Oncology Davis Memorial Hospital	1996-1998
Medical Staff Fairmont Regional Cancer Center; Fairmont WV	1997-1998
The Regional Cancer Center; Erie, PA	1991-1993
Hamot Medical Center; Erie, PA	1991-1993
Saint Vincent Health Center; Erie, PA	1991-1993
Consultant Metro Health Center; Erie, PA	1991-1993
Consultant Millcreek Community Hospital; Erie, PA	1991-1993
Consultant VA Medical Center; Erie, PA	1991-1993
Consultant Meadville Medical Center; Erie, PA	1991-1993
Consultant Great Lakes Rehabilitation Hospital; Erie PA	1991-1993
Consultant Ashtabula County Medical Center; Ashtabula, OH	1991-1993
Courtesy Oil City Area Health Center; Oil City, PA	1991-1993

BOOK CHAPTERS

1. Saw CB, Frick MF, **Korb LJ**; Public Health Issues – Use of Radiation in the Diagnosis and Treatment of Disease; Legal Issues for Physicians; Kaufman H, ed.; 1997.

2. Saw CB, Waterman F, Meigooni A, **Korb LJ**; Instrumentation, Equipment and Source Calibration; Principles of Brachytherapy; Nag S, ed.; 1997.

3. Lamm DL, **Korb LJ,** Sens MA; Bladder Cancer; The American Cancer Society's Clinical Oncology; Lenhard RE, et al, ed, 2000.

PUBLICATIONS

1. **Korb LJ**, Spaulding CS, Constable WC; The Role of Definitive Radiotherapy in Squamous Cell Carcinoma of the Oral Tongue, CANCER, 1991, Vol. 67, pp.2733-2737

2. Spaulding CA, **Korb LJ**, Constable WC, Cantrell RW, Levine PA; The Influence of Extent of Neck Treatment Upon Control of Cervical Lymphadenopathy in Cancers of the Oral Tongue. INTERNATIONAL JOURNAL RADIATION ONCOLOGY BIOLOGY PHYSICS, 1991, Vol. 21, pp. 577-581

3. Saw CB, Pawlicki T, **Korb LJ**, Wu A; Dosimetric Considerations of Commercially Fabricated Esophageal Applicators. RADIOTHERAPY AND ONCOLOGY, 1994, Vol. 34, p. 184-186.

4. Saw CB, Pawlicki T, **Korb LJ**, Wu A; Effects of Extended SSD Electron Beam Depth Dose Curves. MEDICAL DOSIMETRY; 1994, Vol. 19, No. 2, pp. 77-81.

5. Saw CB, Ayyangar KM, Pawlicki T, **Korb LJ**; Dose Distribution Considerations for Medium Energy Electron Beams at Extended Source-to-Surface Distance. INTERNATIONAL JOURNAL RADIATION ONCOLOGY BIOLOGY PHYSICS, 1995, Vol. 32, No. 1, pp. 159-164.

6. Saw CB, **Korb LJ**, Pawlicki T, Wu A; Dose Volume Assessment of Endobrachial Intraluminal Brachytherapy Using High Dose Rate Ir-192 Remote Afterloading System. INTERNATIONAL JOURNAL RADIATION ONCOLOGY BIOLOGY PHYSICS, 1996, Vol. 34, No. 4, pp. 767-774.

7. Komanduri KM, Gupta S, Dobelbower RR, Saw CB, **Korb LJ**; Radioactive Seed Localization's from Computed Tomographic Imaging Technique. JOURNAL OF MEDICAL PHYSICS, 1994 Vol. 19, No. 3, pp. 121-126.

8. Saw CB, **Korb LJ**, Wu A; Dosimetric Comparison of Manchester System and Paris System Planar Implants. JOURNAL OF MEDICAL PHYSICS, 1996, Vol. 21, No. 4, pp. 21-27.

9. Saw CB, **Korb LJ**, Ayyanger KK, Krishna K; Relationships of Wedge Isodose Angle to Percent Depth Dose Curves. INTERNATIONAL JOURNAL RADIATION ONCOLOGY BIOLOGY PHYSICS, 1996, Vol. 34, No. 5, pp. 1147-1152.

10. Saw CB, Darnell B, **Korb LJ**, Frich JC, Dose Distributions Through the Supraclavicular-Axillary Region of Patients Undergoing Breast Cancer Treatment. MEDICAL DOSIMETRY, 1996, Vol. 21, No. 3, pp. 133-137.

11. Saw CB, **Korb LJ**, Krishna K, Local Temperature and Pressure Variations and Its Effects on Daily Ionometric Measurements of Radiation Outputs from Linear Accelerators. MEDICAL DOSIMETRY, 1997, Vol. 22 , No. 1, pp 1-4.

12. Saw CB, **Korb LJ**, Darnell B, Krishna K, Ulewicz DE; Independent technique of Verifying High Dose Rate (HDR) Brachytherapy Treatment Plans. INTERNATIONAL JOURNAL RADIATION ONCOLOGY BIOLOGY PHYSICS, 1998, Vol. 40, No. 3, pp. 747-750.

13. Saw CB, Krishna L, **Korb LJ**, Dosimetric Considerations of using Cylinders and HDR in irradiation of Vaginal Cuff. INTERNATIONAL JOURNAL RADIATION ONCOLOGY BIOLOGY PHYSICS, 1998, Vol. 25, pp. 174.

14. Krishna KV, Saw CB, Coletti JC, **Korb LJ**; A Retrospective Analysis of Electron Cutout Factor Measurements. MEDICAL PHYSICS, 1998, Vol. 25A, pp. 181

15. Ragde H, Elgamal AA, Snow PB, Brandt J, Bartolucci AA, Nadir B, **Korb LJ**; Ten-Year Disease Free Survival after Transperineal Sonography-Guided Iodine-125 Brachytherapy with or without 45-Gray External Beam Irradiation in the Treatment of Patients with Clinically Localized, Low to High Gleason Grade Prostate Carcinoma. CANCER, 1998 pp. 989-1001.

16. Ragde H, **Korb LJ,** Elgamal AA; Seed Implantation for Clinically Organ-Confined Prostate Cancer. CONTEMPORARY UROLOGY, 1999, Vol 11, No. 6, pp 79-100.

17. **Korb LJ;** Radiotherapy for Palliation of Prostate Cancer. SEMINARS OF SURGICAL UROLOGY, 2000, Vol 18, pp 75-79.

18. Ragde H and **Korb LJ;** Brachytherapy for Clinically Localized Prostate Cancer. SEMINARS OF SURGICAL UROLOGY, 2000, Vol 18, pp 45-51.

19. Ragde H, **Korb LJ,** Elgamal AA, Grado GL, Nadir B; Modern Prostate Brachytherapy: Prostate Specific Antigen Results in 219 Patients with up to 12 Years of Observed Follow-up, CANCER, 2000, Vol 89, pp. 135-141.

20. **Korb LJ** and Brawer MK; Modern Brachytherapy for Localized Prostate Cancers: The Northwest Hospital (Seattle) Experience, REVIEWS IN UROLOGY, 2001, Vol 3, pp 51-61.

ABSTRACTS

1. **Korb LJ**, Spaulding CS, Constable WC, Levine PA, Cantrell RW; Control of Cervical Lymphadenopathy in Cancers of the Oral Tongue. INTERNATIONAL JOURNAL RADIATIN ONCOLOGY BIOLOGY PHYSICS, 1990, Vol. 19 (supplement), p. 140.

2. Saw CB, Pawlicki T, **Korb LJ,** Ayyangar KM; Examination of the Relationship of Wedge Isodose Angel with Field Size. MEDICAL PHYSICS, 1994, Vol. 21, p. 965. Presented at the 36th Annual Meeting of the American Association of Physicists in Medicine, Anaheim, CA, July 24-28, 1994.

3. Saw CB, **Korb LJ**, Pawlicki T; Dwell Position and Dwell Times for Intraluminal Irradiation Using HDR Afterloading Unit. MEDICAL PHYSICS, 1994, Vol. 21, p. 881. Presented at the 36th Annual Meeting of the American Association of Physicists in Medicine, Anaheim, CA, July 24-28, 1994.

4. Saw CB, **Korb LJ**, Slack ST, Pawlicki T, Ayyangar KM; Electron Beam Cone Insert Ratio Greater than Unity. MEDICAL PHYSICS, 1994, Vol 21, p. 972. Presented at the 36th Annual Meeting of the American Association of Physicists in Medicine, Anaheim, CA, July 24-28, 1994.

5. **Korb LJ**, Wax MK, Watkins S, Saw CB; Early Glottic Carcinoma in Central Appalachia – Management and Results. Accepted at the Annual Meeting of the Eastern Great Lakes Head and Neck Oncology Society, November 1994.

6. **Korb LJ**, Saw CB, Krishna KV, Ulewicz DE, Bloomfield SM; Radiosurgical Treatment of Complex Target Shapes Using a Single Isocenter. Scientific Program of the 2nd Congress of the International Stereotactic Radiosurgery Society, p. 121, Boston, MA, June 14-17, 1995.

7. Ayyanger KM, Saw CB, Dobelbower RR, **Korb LJ**; Impact of Extended SSD on Electron Beam Widths. MEDICAL PHYSICS, 1995, Vol. 22, p. 905. Presented at the 37th Annual Meeting of the American Association of Physicists in Medicine, Boston, MA, July 23-27, 1995.

8. Johnson M, Wu A, Chen S, Kalnicki S, Saw C, **Korb LJ**; A Comparison of Two Verification Methods of Target Coordinates in BRW Space for Treatments of Intracranial Lesions with Radiosurgery. MEDICAL PHYSICS, 1995, Vol. 22, p. 907. Presented at the 37th Annual Meeting of the American Association of Physicists in Medicine, Boston, MA, July 23-27, 1995.

9. Saw CB, **Korb LJ**, Wu A, Kalnicki S; Formulation of Volumetric Parameters to Assess Linac-Based Stereotactic Radiosurgery Photon Beams. MEDICAL PHYSICS, 1995, Vol. 22, p. 907. Presented at the 37th Annual Meeting of the American Association of Physicists in Medicine, Boston, MA, July 23-27, 1995.

10. Saw CB, **Korb LJ**, Krishna KV, Wu A, Kalnicki S; Lookup Tables of Arc Lengths and Couch Angles for Ellipsoid Dose Distributions in Linac-Based Radiosurgery. MEDICAL PHYSICS, 1995, Vol. 22, p. 907. Presented at the 37th Annual Meeting of the American Association of Physicists in Medicine, Boston, MA, July 23-27, 1995.

11. Saw CB, **Korb LJ**; Installation of Wireless Patient Management System at West Virginia University Hospital. MEDICAL PHYSICS, 1995, Vol. 22, p. 907. Presented at the 37th Annual Meeting of the American Association of Physicists in Medicine, Boston, MA, July 23-27, 1995.

12. Ulewicz DE, Saw CB, Krishna KV, **Korb LJ**, Shaping of Isodose Distribution in Linac-Based Stereotactic Radiosurgery. Presented at the Annual Meeting LINAC Radiosurgery – 1995, Lake Buena Vista, FL, December 8, 1995.

13. Auber M, Higa G, Rogers J, Warden H, Hill R, Covey T, **Korb LJ**, Ulewicz D, Frich J, Seibert D, Gaskins R, Shamma'a J, Lynch J, Romero P, Crowell E, Erickson S; A Well-

Tolerated Potentially Curative Combined Modality Treatment for Patients with Esophageal Carcinoma. Accepted by the Annual Meeting of the American Society of Clinical Oncology, Philadelphia PA, May 1996.

14. Saw CB, Krishna KV, **Korb LJ**; Effects of Temperature and Pressure Variations on Daily Output Checks of Linear Accelerators at West Virginia University Hospitals. MEDICAL PHYSICS, 1996, Vol. 23, P. 1166. Presented to the 38th Annual Meeting of the American Association of Physicists in Medicine, Philadelphia, PA, July 21-25, 1996.

15. Saw CB, **Korb LJ**; Invariance of Dose Non-uniformity Ratio for Interstitial Brachytherapy under Spatial Transformation of Seed Spacing. Presented to the 38th Annual Meeting of the American Association of Physicists in Medicine, Philadelphia, PA, July 21-25, 1996.

16. Saw CB, Darnell BS, **Korb LJ**; Various Methods of Verifying Dosimetric Computations from High Dose Rate Treatment Planning Systems. Presented to the 38th Annual Meeting of the American Association of Physicists in Medicine, Philadelphia, PA, July 21-25, 1996.

17. Saw CB, Krishna KV, **Korb LJ**, Ulewicz DE, Bloomfield S; Systematic Study of the Relationships between Isodose Contours and Gantry Angles in Linac-Based Radiosurgery. Presented to the 38th Annual Meeting of the American Association of Physicists in Medicine, Philadelphia, PA, July 21-25, 1996.

18. Saw CB, **Korb LJ**, Krishna KV; Design and Experience of a Local Area Network at the Radiation Oncology Division, West Virginia University Hospitals. MEDICAL PHYSICS, 1996, Vol. 23, p. 1497. Presented as a Work in Progress to the 38th Annual Meeting of the American Association of Physicists in Medicine, Philadelphia, PA, July 21-25, 1996.

19. **Korb LJ**, Saw CB, Krishna KV; Design of a New Device to Facilitate High Dose Rate (HDR) Brachytherapy of Cervical Cancer. MEDICAL PHYSICS, 1996, Vol. 21, p. 1486. Presented as a Work in Progress to the 38th Annual Meeting of the American Association of Physicists in Medicine, Philadelphia, PA, July 21-25, 1996.

20. **Korb LJ;** Medical Litigation – Avoiding the Nightmare. Program of the Annual Meeting of the Society of Radiation Oncology Administrators, Los Angeles, CA October 1996.

21. **Korb LJ**, Saw CB, Krishna KV, Ulewica DE, Pretorius RG; A Novel Device That Greatly Simplifies Fractionated High Dose Radiation (HDR) Endocervical Brachytherapy. RADIOLOGY, 1996 Vol. 201 (P), Supplement, p. 167. Presented to the 82nd Annual Meeting of the Radiologic Society of North America, Chicago, IL, December 1, 1996.

22. Saw CB, Darnell BS, Krishna KV, Ulewicz DE, **Korb LJ**; Verification of Dosimetric Data from High Dose Rate (HDR) Computer Calculations. RADIOLOGY, 1996 Vol. 201 (P), Supplement, P. 260. Presented to the 82nd Annual Meeting of the Radiologic Society of North America, Chicago, IL, December 1, 1996.

23. Saw CB, Mayr NA, Hussey DH, **Korb LJ**, Krishna KV; Dose Volume Assessment of Fletcher-Suite-Delclos and Ring-Tandem Gynecological Implants. MEDICAL PHYSICS, 1997 Vol. 24, No. 6, page 1060. Presented at the 39th Annual Meeting of the American Association of Physicists in Medicine. Milwaukee, WI, July 30, 1997.

24. Saw CB, Krishna KV, **Korb LJ**; Dosimetric Considerations of using Cylinders and HDR in Irradiation of Vaginal Cuff. MEDICAL PHYSICS, 1998 Vol. xx, No. x, page xxx. Presented at the 40th Annual Meeting of the American Association of Physicists in Medicine. San Antonio, TX, August 11, 1998.

25. Krishna KV, Saw CB, Coletti JC, **Korb LJ**; A Retrospective Analysis of Electron Cutout Factor Measurements. MEDICAL PHYSICS, 1998 Vol. xx, No. x, page xxx. Presented at the 40th Annual Meeting of the American Association of Physicists in Medicine. San Antonio, TX, August 11, 1998.

INSTITUTIONAL INVITED PRESENTATIONS

1. Breast Preservation for the Cancer Patient. Presented to the Oncology Nurses Society. Erie, PA, May 7, 1992.

2. What's New in Radiotherapy for Lung Cancers. Presented at St. Vincent Health Center, 13th Annual Cardiovascular Symposium. Erie, PA, November 6, 1992.

3. Radiotherapy for Lung Cancer. Presented at the Pulmonary Didactic Lecture, West Virginia University. Morgantown, WV, August 26, 1993

4. Radiotherapy in Cancer. Presented to the Cancer Information Service, West Virginia University. Morgantown, WV, September 9, 1993.

5. Radiotherapy for Medulloblastoma. Presented at Neuro-Oncology Conference, West Virginia University. Morgantown, WV, March 9, 1994.

6. Controlling Cancer Pain. Presented to Cancer Information Service, West Virginia University. Morgantown, WV, March 9, 1994.

7. Radiotherapy for Cancer of the Prostate. Presented to WVU Healthline presents...., West Virginia University. Morgantown, WV, May 25, 1994.

8. Advancements in the Treatment of Metastatic Prostate Cancer. Panel Discussion, MDTV Teleconference. West Virginia University. Morgantown, WV, September 9, 1994.

9. Prostate Cancer as a Model Radiotherapy System. Presented at the Fall Meeting of the Mason-Dixon Radiological Society. West Virginia University. Morgantown, WV, October 19, 1994.

10. Introduction to Radiation Oncology. Presented to West Virginia University Internal Medicine Residents. West Virginia University. Morgantown, WV, November 17, 1994.

11. Controlling Cancer Pain. Presented to the North Central West Virginia Chapter of Oncology Nursing Society. Morgantown, WV, April 7, 1995.

12. Principles of Radiotherapy for Skin Cancers. Presented to the West Virginia University Department of Dermatology. Morgantown, WV, June 22, 1995.

13. Breast Preservation Therapy. Presented to the West Virginia State Cancer Registrars Association Annual Meeting. Morgantown, WV, October 6, 1995.

14. Benefits of Adjuvant Radiation Therapy in Colorectal Cancer. Presented at the Annual Fall Cancer Conference: New Perspectives on Colorectal Cancer. Morgantown, WV, November 3, 1995.

15. The Role of Radiotherapy in Breast Preservation. Presented as a Departmental Inservice lecture, Morgantown, WV, April 25, 1996.

16. Introduction to Radiation Oncology. Presented as a Noon Lecture to the WVU Internal Medicine House Staff, Morgantown, WV, June 20, 1996.

17. A Radiation Oncology Update. Presented to the Mary Babb Randolph Cancer Center Board of Advisors, Morgantown, WV, October 25, 1996.

18. Radiation for Head and Neck Tumors. Presented as a Department of Otolaryngology/ Head and Neck Surgery Lecture. Morgantown, WA, November 19, 1996.

19. Brachytherapy in the Surgical Patient. Presented to the WVU department of Surgery Grand Rounds, Morgantown, WV, March 1, 2997.

20. An Overview of Special Procedures in Radiation Oncology. Presented as an inservice to the Cancer Information Service, West Virginia University. Morgantown, WV, September 11, 1997.

21. Nursing Impact of Prostate Seed Implants. Presented as a Nursing Inservice at West Virginia University Hospital. Morgantown, WV, April 8, 1998.

22. Radioactive Seed Implants for Prostate Cancer. Presented to the US Too Support Group at West Virginia University Hospital, Morgantown, WV, May 13, 1998.

23. Selection Criteria for Brachytherapy Patients. Presented to the monthly Northwest Hospital Ultrasound Guided Prostate Implant Course. Seattle, WA, July 13, 1998.

24. External Beam Radiation for Prostate Cancer. Presented to the Northwest Prostate Cancer Forum. Seattle, WA, August 8, 1998.

25. Brachytherapy and Prostate Cancer. Presented to the Northwest Prostate Cancer Support Group. Seattle, WA, April 17, 2000.

STATEWIDE, NATIONAL, AND INTERNATIONAL INVITED PRESENTATIONS

1. The Role of Definitive Radiotherapy in Squamous Cell Carcinoma of the Oral Tongue. Presented to the 72nd Annual Meeting of the American Radium Society. Scottsdale, AZ, April 22, 1990.

2. Control of Cervical Lymphatics in Squamous Cell Carcinoma of the Oral Tongue. Presented to the Mid-Atlantic Society of Radiation Oncologists. Williamsburg, VA, May 12, 1990.

3. Cervical Metastases from Squamous Cell Carcinoma of the Oral Tongue. Presented to the 32nd Annual Meeting of the American Society for Therapeutic Radiology and Oncology. Miami, FL, October 15, 1990.

4. Changing Patterns of Breast Cancer Care. Presented at the West Virginia University Oncology Update. New York, NY, August 28, 1994.

5. Early Glottic Cancer in Central Appalachia – Management and Results. Presented at the Annual Meeting of the Eastern Great Lakes Head and Neck Oncology Society. Buffalo, NY November 19, 1994.

6. Overview of Radiation Oncology. Presented to the 10th Annual Mary Babb Randolph Cancer Center Fundraiser. White Sulphur Springs, WV, April 18, 1995.

7. "Doctors on Call": Prostate Cancer. Presented statewide on WNPB, West Virginia Public Television, May 4, 1995.

8. Radiosurgical Treatment of Complex Target Shapes Using a Single Isocenter. Poster presented at the 2nd Congress of the International Stereotactic Radiosurgery Society, Boston, MA, June 14-17, 1995.

9. Comprehensive Breast Cancer Management. Presented and moderated for statewide MDTV telecast. Morgantown, WV, July 20, 1995.

10. Breast Preservation Cancer Therapy. Presented at the kaleidoscope Medical Conference at Camden-Clark Hospital, Parkersburg, WV, April 3, 1996.

11. New Modalities for the Treatment of CNS Neoplasms. Presented at the Noon Lecture of the Charleston Area Medical Center, Parkersburg, WV, April 3, 1996.

12. "Doctors on Call": Breast Cancer. Presented statewide on WNPB, West Virginia Public Television, May 9, 1996.

13. Reducing the Toxicity of Chemotherapy. Presented at the Medical Oncology Conference of the Hollywood Memorial Regional Cancer Center, Hollywood, FL, June 11, 1996.

14. Protection Against Cancer – Therapy Induced Toxicities. Presented at the Medical Oncology Grand Rounds at the Sylvester Comprehensive Cancer Center of the University of Miami. Miami, FL, June 12, 1996.

15. Medical Malpractice: Avoiding the Nightmare. Presented to the Annual Meeting of the Society of Radiation Oncology Administrators. Los Angeles, CA October 27, 1996.

16. Design of a New Device to Facilitate High Dose Rate (HDR) Brachytherapy of Cervical Cancer. Presented at the 82nd Annual Meeting of the Radiologic Society of North America. Chicago, IL, December 1, 1996.

17. Verification of Dosimetric Data from High Dose Rate (HDR) Computer Calculations. Presented at the 82nd Annual Meeting of the Radiologic Society of North America. Chicago, IL, December 3, 1996.

18. Preventing the Cytotoxic Side Effects of Radiotherapy. Presented at Radiation Oncology Grand Rounds at the University of Miami, Sylvester Comprehensive Cancer Center, Miami, FL, December 12, 1996.

19. Breast Preservation in the Cancer Patient. Presented at the monthly CME conference at Fairmont General Hospital, Fairmont, WV, May 6, 1997.

20. Past, Present, and Future Uses of Amifostine in Radiotherapy. Presented to the Ethyol Advisory Board Meeting: Past and Future Role of Ethyol in Cancer Therapy. Washington DC, June 21, 1997.

21. Brachytherapy versus Conformal Therapy for Prostate Cancer. Presented to the Sixth Annual West Virginia University Urologic Update 1998. Morgantown, WV, March 14, 1998.

22. "Doctors on Call": Cancer. Presented statewide on WNPB, West Virginia Public Television, May, 7, 1998.

23. Radiobiology of External Beam versus Permanent Implants. Presented at the 9th Annual Prostate Cancer and Brachytherapy Symposium. Seattle, WA, June 12 & 13, 1998.

24. Radiobiology of External Beam versus Permanent Implants. Presented at the 9th Annual Prostate Cancer and Brachytherapy Symposium. Seattle, WA, June 12 & 13, 1998.

25. External Beam Radiation for Prostate Cancer. Presented to the Northwest Prostate Cancer Forum. Seattle, WA, August 8, 1998.

26. Radioisotopes for Clinical Brachytherapy. Accomplishments with Medical Isotopes: Advanced Health Care for the 21st Century. Washington, DC, March 13, 1999.

27. Nueral Network Analysis as a Treatment Selector for Prostate Cancer Patients. Presented to the American Cancer Society Science Writers Conference. Miami, FL. March 29, 1999.

28. Computerized Medical Decision Making. Presented at the Satellite Meeting of the 2nd International Conference on Prostate Cancer. Paris, France. June 25, 1999.

29. Computerized Medical Decision Making. Interview with CNN Reporter, Dan Rutz. Paris, France, June 26, 1999.

30. Radiotherapy for Metastatic Disease. Presented at the 1999 Northwest Prostate Cancer Forum, Seattle, WA, September 25, 1999

31. How can prognostic factors in prostate cancer be used to help patients decide therapy: Brachytherapy. Presented at Advances in the Diagnosis and Treatment of Prostate Cancer, Seattle, WA, November 20, 1999.

32. New Cancer Therapies. On "Talk to America", presented Worldwide on Voice of America Radio. May 5, 2000.

33. Introduction to Cancer. Las Vegas, NV. July 27, 2000. Presented at the Annual Meeting of the National Nutritional Foods Association.

34. Prostate Cancer and Nutritional Interactions. Las Vegas, NV. June 7, 2001. Presented at the Annual Meeting of the National Nutritional Foods Association.

NATIONAL AND INTERNATIONAL INVITED FACULTY

1. Cancer Pain Management. Fort Lauderdale, FL, January 10-11, 1992. Sponsored by the Purdue-Frederick Co.

2. Cytoprotection Education Workshop. Philadelphia, PA, May 16-17, 1996. Sponsored by the Alza Corp. and U S Bioscience.

3. Ethyol Advisory Board Meeting: Past and Future Role of Ethyol in Cancer Therapy. Washington DC, June 21, 1997. Sponsored by Alza Corp. and US Bioscience.

4. Ultrasonically Guided I-125/Pd-103 Implantation for the Treatment of Prostate Cancer: Patient Selection. Presenting at monthly training workshops at Northwest Hospital, beginning July 9, 1998. Sponsored by Northwest Hospital and Pacific Northwest Cancer Foundation.

5. The Physics and Radiobiology of Prostate Brachytherapy. Bergen, Norway, April 19-21, 1999. Presented at the 1st International Prostate Workshop at the University of Bergen.

6. The Physics and Radiobiology of Prostate Brachytherapy. Dallas, TX, May 1-6, 1999 . Presented as part of the Prostate Brachytherapy Course at the 1999 Annual Meeting of the American Urological Association.

7. The Physics and Radiobiology of Prostate Brachytherapy. Atlanta, GA, April 28 – May 2, 2000. Presented as part of the Prostate Brachytherapy Course at the 2000 Annual Meeting of the American Urological Association.

8. Androgen Deprivation and the Surge Phenomenon in Prostate Cancer. Chicago, IL, September 8, 2000. Sponsored by Amgen- Praecis Pharmaceuticals.

9. Thirteen-Year Results of Prostate Brachytherapy at a Single Institution. Madrid, Spain, November 12, 2000. Presented to the 10th International Brachytherapy Conference.

10. Radiotherapy and Hormone Therapy for Prostate Cancer. Lake Tahoe, NV, March 30 – April 1, 2001. Sponsored by Amgen- Praecis Pharmaceuticals.

11. Manejo Actual del Cancer de Prostata Localezado, Clinica Alemana, Santiago, Chile, April 27 – 28, 2001.

12. Radiotherapy and Hormone Therapy for Prostate Cancer. Moderator. Vancouver, BC, May 18 – 19, 2001. Sponsored by Amgen- Praecis Pharmaceuticals.

13. The Physics and Radiobiology of Prostate Brachytherapy. Anaheim, CA, June 6, 2001. Presented as part of the Prostate Brachytherapy Course at the 2001 Annual Meeting of the American Urological Association.

14. An Introduction to Prostate Brachytherapy. Manila, Philippines, May 9, 2002. Presented to the departments of Radiation Oncology and Urology, Cardinal Santos Medical Center.

15. Brachytherapy for Localized Prostate Cancer. Manila, Philippines, November 29, 2002. Presented to the annual meeting of the Philippine Urological Association.

RECENT HONORS

Selected by peers for inclusion in ***The Best Doctors in America (2003-2004)***

Best Doctors in Seattle as featured in Seattle Magazine, September, 2002

Selected by peers for inclusion in ***The Best Doctors in America (2001-2002)***

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Selected by peers for inclusion in ***The Best Doctors in America (1998-1999)***

Selected by peers for inclusion in the first edition of ***The Best Doctors in America: The Midwest Edition (1996-1997)***

Developer of the "Korb Sleeve" endocervical stent; a device to facilitate High Dose Rate Applicator placement for gynecologic tumors. To be manufactured and marketed by the Nucletron Corporation, Veenendaal, The Netherlands

Clinical Grant Reviewer for the California Cancer Review Program, Cycles 1, 2, and 3. Committee members are responsible for the disbursement of up to $50,000,000 per cycle to worthwhile grant applicants in the State of California. La Jolla and San Francisco, 1998 – Present.

Updated 9-12-05

This is to acknowledge the receipt of your letter/application dated

10/23/2006, and to inform you that the initial processing which includes an administrative review has been performed.

Amendment 37-17863-01

☒ There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

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A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 139652.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (RI)
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Sincerely,
Licensing Assistance Team Leader