

July 9, 2008

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

03002542 Re: Radioactive Materials license No. 29-12109-01

Dear Sir/Madam:

The hospital has just entered into a contractual arrangement to replace the current group of radiologists with a new group effective on **July 25, 2008**. The physicians listed below need to be added to our license by the date to ensure the hospital's nuclear medicine service may continue to operate without interruption. Your prompt attention to this matter will be greatly appreciated.

Please add the following physicians to our radioactive material license No. 29-12109-01 as authorized users:

Steven Leffler, PhD, M.D. groups I and II Kenneth S. Schwartz, M.D. groups I, II, and III Robert M. Wilkens, M.D. groups I, II, and III

Enclosed are their C.V.s' American Board of Radiology certifications, a copy of The City of New York Radioactive Materials license naming Dr Schwartz, and Dr Wilkens as authorized users.

A copy of NRC license No. 29-10313-01 naming Dr. Leffler as an authorized user is also enclosed.

The current authorized users on our license will be leaving Robert Wood Johnson University Hospital at Rahway on July 24, 2008. An amendment request reflecting this change will be forthcoming.

All other conditions of our radioactive material license remain the same at this time.

Please contact Mr. Robert White, Director of Clinical Services should you need any additional information at 732-815-7512.

Sincerely. lice Kirk C. Tice President and CEO

NMSS/RGNI MATER.ALS-002

FN 12:

ROBERT MICHAEL WILKINS, M.D.

RESIDENCE:

OFFICE TELEPHONE:

OFFICE FAX:

HOME PHONE:

DATE AND PLACE OF BIRTH:

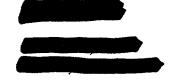
SOCIAL SECURITY NUMBER:

EDUCATION:

POST DOCTORAL TRAINING:

(914) 666-2220

(914) 666-2987



University of Maryland College Park, MD 20742 Bachelors, *June 1975*

Howard University Medical School 2041 Georgia Avenue Washington DC 20060 M.D. August 25th, 1975 - May 12th, 1979

Howard University Hospital 2041 Georgia Avenue Washington DC 20060 Internal Medicine Intern July 1979 – June 1980

Mount Sinai Hospital One Gustave I Levy Place 1190 5th Avenue New York, NY 10029 Resident Radiology: *July 1980 – June 1983*

Mount Sinai Hospital One Gustave I Levy Place 1190 5th Avenue New York, NY 10029 Mini Fellowship Special Procedures July 1982 – June 1983

New York State, *August 1st*, 1980, 143114-1 New Jersey, 25MA08254200

LICENSURE:

DEA REGISTRATION NUMBER:

AW2172699

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

SOCIETY MEMBERSHIPS:

ACCREDITATION:

HOSPITAL APPOINTMENTS:

American College of Radiology

American Board of Radiology Certified in Radiology: June 3rd, 1983

Bon Secours Community Hospital 160 East Main Street Port Jervis, NY 12771-2245 September 2007 – Present

Chief of Radiology St. Anthony Community Hospital 15 Maple Avenue Warwick, NY 10990 July 2007 – Present

Mercy Medical Center 1000 North Village Avenue Rockville Centre, NY 11570 July 2007 – Present

Unite Health Center 275 Seventh Avenue New York, NY 10001 *August 2006 – Present*

Coler-Goldwater Specialty Hospital One Main Street Roosevelt Island, NY 10044 March 2006 – Present

Ellenville Regional Hospital Route 209 Ellenville, NY 12428 September 2005 – June 2006

SouthSide Hospital 301 East Main Street Bayshore, NY 11706 June 2005 – Present

New York Downtown Hospital 170 Williams Street New York, NY 10038 May 2005 – Present

Forest Hills Hospital 102-01 66th Road Forest Hills, NY 11375 March 2005 – Present Kingsbrook Jewish Medical Center 585 Schenectady Avenue Brooklyn, NY 11203 March 2005 – Present

Columbus Medical Institute 97-85 Queens Boulevard Rego Park, NY 11374 March 2004 – October 2005

St. Vincent's Midtown Hospital (closed) 415 51st Street New York, New York 10019 *February 1990 – 8/31/07*

Terence Cardinal Cooke Health Care Center 1249 Fifth Avenue New York, NY 10029 July 1998 – November 2005

NYO Hotel Trade Council 773-775 9th Avenue New York, New York 10019 September 1995 – Present

S & D Medical, LLP 52 Main Street Bedford Hills, NY 10507 December 2004 – Present

83rd Street Radiology (*closed 7/1/07*) 121 East 83rd Street New York, New York January 2001 – March 2004

Messina, Liebeskind, Liebeskind and Halpern 50 East 72nd Street New York, New York *July 1983 – January 1990*

EMPLOYMENT:

The American Organized through the cooperation of the American College of Radiology, the American Roentgen Ray Society, the American Radium Society, the Radiological Society of North America, the Section on Radiology of the American Medical Association and the American Society of Therapeutic Radiologists Horeby certifies that Rohert M. Wilkins, M.T. Has pursued an accepted course of graduate study and clinical work, has met certain standards and qualifications and has passed the examinations conducted under the authority of The American Roard of Radiology On this third day of June, 1983 Thereby demonstrating to the satisfaction of the Board that he is qualified to practice the specialty of Biagnostic Radislogy

CITY OF NEW YORK RADIOACTIVE MATERIALS LICENSE

Page 1 of 5 Pages

語の実施を設置

Pursuant to the New York City Charter and Article 175 of the New York City Health Code and in reliance on statements and representations heretofore made by licensee designated below; a license is hereby issued authorizing such licensee to transfer, receive, possess and use the radioactive material(s) designated below; and to use such radioactive materials for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders now or hereafter in effect of all appropriate regulatory agencies and to any conditions specified below.

In accordance with Application dated 20 August 2006 from Len Walsh, C.E.O., St. Vincent's Midtown Hospital; License number 91-2882-01 is hereby amended in its entirety to read:

Name: St. Vincent's Midtown Ho	38 License Number: 30% Amendment Number: spinal	91-2882-01 6 30 September 2011
Address: 415 West 51" Street New York, New York 100	Reference Number	© 634.3 ©
Radioactive materials (element number)	Chemical and/or physical form	8. Maximum quantity licensee ms possess at any one time
Any radioactive material identified in \$175,103(d) (1)(i), NYC Health Code	 (A) Aby "rolignmermanelitical or radiobiologic with an active(i.e. not withdrawh or terminated) "New Drug Application" (NDA) approved by FDA or an "Investigational New Drug" (IND) application accepted by FDA. 	(A) As necessary for uses authorized in Subitem 9(A)
Any radioactive material identified in §175,103(e)(1)(1), NYC Health Code	 (B) Any radiopharmaceutical or radiobiologic with an active (i.e. not withdrawn or terminated) "New Drug Application" (NDA) approved by FDA or an "Investigational New Drug" (IND) application accepted by FDA (GENERATORS AEROSOLS AND GASES ONLY AS LISTED BBLOW) 	(B) As necessary for uses authorized in Subitem 9(B)

CITY OF NEW YORK	Page 2 of 5 Page License Number: 91-2882-01 Amendment Number: 6					
RADIOACTIVE MATERIALS						
LICENSE	Reference Number: 634-3					
6. Radioactive materials (element, number	7. Chemical and/or physical form	8. Maximum quantity licensee may posses at any one time				
(C) Technetium-99m	(C) DTPA Aerosol with an active (i.e, not with-drawn or terminated) "New Drug Application" (NDA) approved by FDA	(C) 3.7 Gigabecquerels				
D) Technetium-99m	DA (D) Pertechnetate	(D) Individual amounts not to exceed 1.85 Gigabecquarels				
E) Cobalt-57	(E) Sealed Sources with an active (i.e. not withdrawn or terminated) "Safety Evaluation of Device" (published in NRC, "Registry of	(E) 5 Sources not to exceed 925 Megabecquerels per source				
F) Cobalt-57	Radioactive Scaled Sources and Devices (F) Scaled Sources with an active (i.e. polyalfidrawit or demniated) ISalety/Evaluation of Device 1 	(E) 5 Sources not to exceed 740 Megabecquerels per source				
) Barium-133	Ci Radiouchve Sealeni Sources and Devines Sealed Sources with an acrive (Ca Sealed Sources With acrive ((G) 5 Sources not to exceed 18.5 Megabecquerels per source				
l) Cesium-137	 (H) Sealed Sources with an active (i.e. not withdrawn or terminated) "Safety Evaluation of Device". published in NRC "Registry of Radioactive Sealed Sources and 	(H) 5 Sources not to exceed 18.5 Megabecquerels per source				
Technetium-99m	Devices" (1) Pyro- and Trimeta-Phosphate Kit	(I) 14:8 Gigabecquerets				
Technetium-99m	(J) Sestamibi Kit (DuPont Merck,	ມີ 37 Gigabecquerels				

				Page 3 of 5 Pages	
CITY OF NEW YORK		Licen	License Number: 91-2882-01		
RA	DIOACTIVE MATERIALS LICENSE	Amer	idment Number: 6		
	DICENSE	Refer	ence Number: 634-3		
6.	Radioactive materials (element number	2.	Chemical and/or physical form	8. Maximum quantity licensee may posses at any one time	
(K)	Technetium-99m	(K)	Tetrofosmin Kit (Amersham, NDA 20-372)	(K) 137 Gigabecquerels	
(L)	Thallium-201	a)	Thallous Chloride (DuPont Merck, NDA 17-806; Mallinckrodt, NDA 18-150; Medi-Physics, NDA 18-110;	(L) 14.8 Gigábecquerels	
			Bracco Diagnostics, NDA 18-548)		

CONDITIONS

applicable

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Authorized Use:

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- (A) Any uptake, dilution or exc
- (B) Any imaging or localization
- (C) Pulmonary function studies administred lising either a Malanckrool, Spinso, Inc., a Cadema System, Inc., or a Medi Nuclear Corporation Aerovent errosol delivery system
- (D) Calibration check and reference matchial (NonHumaniUse)
- (E) Flood calibration sources (Non-Human User A
- (F) through (H) Calibration sources (Non-Human Use).
- (I) As a cardiac imaging agent used as an adjunct in the diagnosis of acute myocardial infarction, and for gaited cardiac blood pool imaging.
- (f) Myocardial imaging agent used to distinguish normal from abnormal myocardium to localize abnormality in patients with suspected myocardial infarction, and for evaluation of myocardial function using first pass technique.
- (K) Imaging of the myocardium following separate administrations under exercise and resting conditions, and in the delineation of regions of reversible myocardial ischemia in the presence or absence of infarcted myocardium.
- (L) Myocardial perfusion imaging, the diagnosis and localization of myocardial infarction, and prognosis regarding survival after onset of symptoms of acute myocardial infarction to assess site and size of perfusion defect.

10. The licensee shall comply with the provisions of Article 175 of the New York City Health Code entitled "Radiation Control."

		Page 4 of 5 Pag
CITY OF NEW YORK RADIOACTIVE MATERIALS LICENSE		License Number: 91-2882-01
		Amendment Number: 6
		Référence Number: 634-3
11.	Failure to pay the fee for inspection termination of this license.	n of a radioactive material site, upon notification from the Department, will result in
12,	The radioactive material may be us Hospital, 415 West 51st Street, Ne	ed only in The New Department of Nuclear Medicine Suite, St. Vincent's Midtown w York, New York 10019
13.		
	materials and uses indicated:	6 are authorized for use by, or under the supervision of, the following individual(s) for th
	Authorized User	Materials and Use
	Jonathan Greenblatt, M.D.	Subitems 6(D) through 6(L)
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		
	Tien Nguyen, M.D.	Subitems 6(D) through 6(L)
	Tien Nguyen, M.D. Robert Wilkins, M.D.	Sublems (CD) through 6(L)
14	Robert Wilkins, M.D.	
14.	Robert Wilkins, M.D. The radiation safety officer for this	Aut Ingense in Robert William M.D.
	Robert Wilkins, M.D. The radiation safety officer for this Radioactive material as a sealed sol	



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		Page 5 of 5 Pages
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	RADIOACTIVE MATERIALS	
	LICENSE	Amendment Number: 6
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	8	

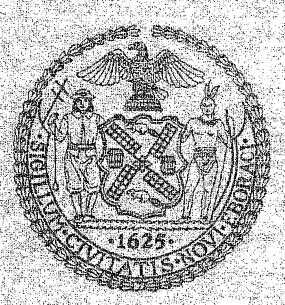
Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations and procedures contained in the documents including any enclosures listed below. Artile 175 of the New York City Health Code shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.

(A) Application dated 20 August 2006

DEC 0 4 2006

RP/h

Date:



FOR THE NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Raymond Ford Scientist Radioactive Materials Division Office of Radiological Health

STEVEN LEFFLER PhD, MD

RESIDENCE:

HOME TELEPHONE:

OFFICE TELEPHONE:

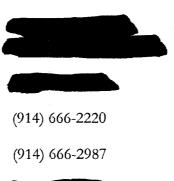
OFFICE FAX:

DATE AND PLACE OF BIRTH:

SOCIAL SECURITY NUMBER:

EDUCATION:

POST DOCTORAL TRAINING:



New York University 550 First Avenue New York, NY 10016 BA Biology: September 1965 – June 1969

New York University 550 First Avenue New York, NY 10016 PhD Biochemistry: September 1969 – October 1973

Hahnemann Medical College 245 North 15th Street Philadelphia, PA 19102 MD: October 1982 – June 1984

Graduate Hospital of The University of Pennsylvania 3400 Spruce Street, 1 Maloney Philadelphia, PA 19104 Internship General Surgery: June 1984 – June 1985

St. Vincent's Hospital & Medical Center 170 West 12th Street New York, NY 10011 Resident Diagnostic Radiology: *July 1985 – June 1989*

New York Medical College 100 Grasslands Road Valhalla, NY 10595 Fellowship Interventional Radiology: *July 1989 – June 1990*

PERSONAL INFORMATION WAS REMOVED

BY NRC. NO COPY OF THIS INFORMATION

1 of 7

LICENSURE:	New York: 162767 <i>July 1st, 1985</i> New Jersey: 25MA05491100 <i>July 1st, 1985</i> Pennsylvania: MD041418L March 23 rd , 1990 Florida: ME95225 February 14 ^{tb} , 2006
DEA:	BL2308042
ACCREDITATION:	American Board of Radiology Certified in Radiology: <i>December 11th, 1989</i>
SOCIETY MEMBERSHIPS:	ACR RSNA SIR
HOSPITAL APPOINTMENTS:	 Forest Hills Hospital 102-01 66th Road Forest Hills, NY 11375 March 2008 - Present Mercy Medical Center 1000 N. Village Avenue Rockville Centre, NY 11570 November 2007 - Present Bon Secours Community Hospital 160 East Main Street Port Jervis, NY 12771-2245 November 2007 - Present St. Anthony Community Hospital 15 Maple Avenue Warwick, NY 10990 October 2007 - Present Union Hospital (closing) 1000 Galloping Hill Road Union, NJ 07083 Attending Radiologist: February 2006 - October 2007 (908) 851-7131 Clifton Springs Hospital 2 Coulter Road Clifton Springs, NY 14432 Attending Radiologist: December 2005 - February 2006
	(315) 462-9561

.

Barnert Hospital 680 Martin Luther King Way Paterson, NJ 07514 Attending Radiologist: *April 2003 – November 2005* (973) 977-6600

Chilton Memorial Hospital 97 West Parkway Pompton Plains, NJ 07444 Attending Radiologist: *April 2003 – November 2005* (973) 831-5740

Palisades Medical Center 7600 River Road North Bergen, NJ 07047 Attending Radiologist: *August 1991 – December 2002* (201) 854-5000

Passaic Beth Israel Medical Center 70 Parker Avenue Passaic, NJ 07055 Attending Radiologist: *August 1990 – August 1991* (973) 365-5000

EMPLOYMENT:

S & D Medical, LLP 52 Main Street Bedford Hills, NY 10507 November 2007 – Present

Radiology Affiliates 3120 Princeton Pike Lawrenceville, NJ 08648 Attending Radiologist: July 1990 – August 1990 (609) 219-1000

Mt. Sinai Hospital One Gustave L. Levy Place 1190 5th Avenue New York, NY 10029 Lab Technician – Nuclear Medicine *June 1969 – September 1969*

LOCUM TENENS:

Radiology Associates of NJ Staff Radiologist: May 2005 – August 2006

Kennedy Health Systems

 18 East Laurel Road
 Stratford, NJ 08084
 (856) 346-7844
 Staff Radiologist: May 2005 – August 2006

Kennedy Imaging P.C. Staff Radiologist: September 2004 – May 2005

 Kennedy Imaging P.C.
 500 Marlboro Avenue Cherry Hill, NJ 08002 (856) 346-6000 Staff Radiologist: September 2004 – May 2005

Excalibur Kennedy Imaging Staff Radiologist: June 2003 – August 2004

SouthEastern Emergency SE Staff Radiologist: April 2002 – March 2003

- Capital Health Systems

 446 Bellevue Avenue
 Trenton, NJ 08607
 (609) 394-4000
 October 2002 March 2003
- Kaleida Millard Fillmore
 3 Gates Circle
 Buffalo, NY 14209-1120
 (716) 887-4600
 April 2002 September 2002

Cambria-Somerset Radiology & Nuc Staff Radiologist: May 2002

 Conemaugh Memorial Medical 1086 Franklin Street Johnstown, PA 15905-4398 (814) 533-1000 May 2002

Advanced Radiology, Ser. Staff Radiologist: *March 2002*

 Our Lady of Lourdes Memorial Hospital 169 Riverside Drive Binghamton, NY 13850 (607) 798-5111 March 2002

UMDNJ-School of Osteopath Staff Radiologist: February 2002 – March 2002

 Kennedy Health System Hospital 18 East Laurel Road Stratford, NJ 08084 (856) 346-7844 February 2002 – March 2002

Guyette MD PSC William Staff Radiologist: April 1990 – May 1990

 Crittenden County Hospital Highway 60 South Marion, KY 42064 (270) 965-1013 April 1990 – May 1990

TEACHING APPOINTMENTS:

Mt. Sinai Hospital One Gustave L. Levy Place 1190 5th Avenue New York, NY 10029 Research Assistant Professor *June 1978- June 1980*

Baruch College, CUNY 55 Lexington at 24th Street New York, NY 10010 Adjunct Asst. Professor in Biochemistry September 1977 – June 1981

NYU School of Medicine 550 First Avenue New York, NY 10016 Asst. Research Scientist-Dept. of Biochemistry October 1973 – February 1974

Leffler, S, Hierowski, M, Poindexter, JS and Szer, W (1971), Large Scale Isolation of the Caulobacter bacteriophage PhiCb5 and its RNA genome, FEBS Letters, 19, 112-114

PUBLICATIONS:

Leffler, S and Szer, W (1973), Polypeptide chain initiation in Caulobacter crescentus. Absence of an IF-1 like protein in ribosomal washes, Federation Proc 32, 533 Abs

Leffler, S and Szer, W (1973), Ribosomal specificity in translation, 9th International Congress of Biochemistry, Stockholm, 158 Abs

Leffler, S and Szer, W (1973), Messenger selection bacterial ribosomes, Proc Nat Acad Sci USA 70, 2364-2368

Szer, W and Leffler, S 1973), Ribosomal specificity in translation of phage RNAs, Cold Spring Harbor Mtg. on Ribosomes, 21 Abs

Leffler, S and Szer, W (1974), Purification and properties of initiation factor IF-3 from Caulobacter crescentus, J.Biol.Chem, 249, 1458-1464

Leffler, S and Szer, W (1974), Polypeptide chain initiation in Caulobacter crescentus without IF-1, J.Biol.Chem, 249, 1465-1468

Szer, W and Leffler, S (1974), Interaction of E.coli 30s ribosomal subunits with MS2 phage RNA in the absence of initiation factors, Proc.Nat.Acad.Sci, USA 71, 3611-3615

Szer, W, Hermoso, J and Leffler, S (1975), Ribosomal protein S1 and polypeptide chain initiation in bacteria, Proc.Nat.Acad.Sci, USA 72, 2325-2329.

Yamasaki, H, Leffler, S, Poupko, J and Weinstein, IB (1976), Modification of DNA with N-2-acetylaminofluorene (AAF): effect on chromatin structure and template activity, Federation Proc. 35, 1518 Abs.

Yamasaki, H, Leffler, S, Poupko, J and Weinstein, IB (1976), Effect on N-2_Acetyl aminofluorene modification on the structure and template activity of DNA and reconstituted chromatin, Cancer Res. 37, 684-691.

Leffler, S, Pulkrabek, P, Grunberger, D and Weinstein, IB (1977), Template activity of DNA modified with benzo(a)pyrene in virto, Amer. Assoc.Adv.Sci. Meeting, Denver, 137 Abs.

Pulkrabek, P, Leffler, S, Weinstein, IB and Grunberger, D (1977), Conformation of DNA modified with a dihydrodiol epoxide derivative of benzo(a)pyrene, Biochemistry 16, 3127-3132.

Leffler, S, Pulkrabek, P, Grunberger, D and Weinstein, IB (1977), Template activity of calf thymus DNA modified by a dihydrodiol epoxide derivative of benzi(a)pyrene, Biochemistry 16, 3133-3136.

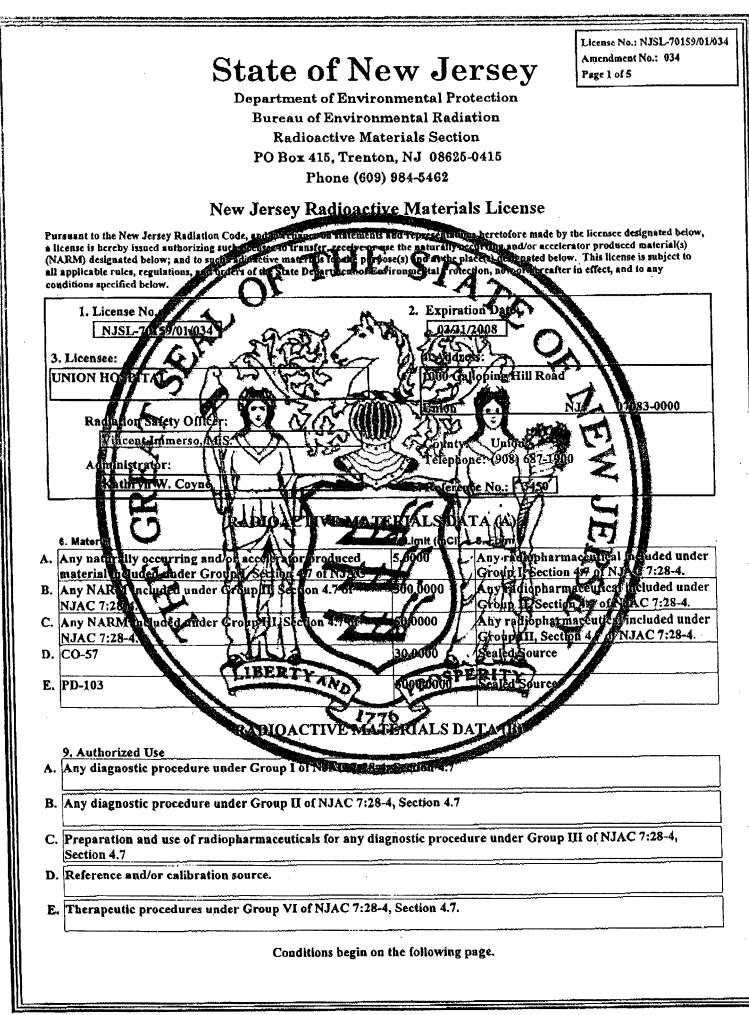
Weinstein, IB, Jeffrey, AM, **Leffler, S**, Pulkrabek, P, Yamasaki, H and Grunberger, D (1978), Interactions between polycyclic aromatic hydrocarbons and cellular macromolecules, In: Polycyclic Hydrocarbons and Cancer 2, Molecular and Cell Biology (eds.) HV Gel-Boin and POP Ts'o, Academic Press, New York.

Leffler, S, Pulkrabek, P, Grunberger, D and Weinstein, IB (1978), Structural and functional changes in plasmid and phage DNA modified by a diol epoxide derivative of benzo(a)pyrene (BP), Federation Proc. 37, 1383.

Pulkrabek, P, Leffler, S, Weinstein, IB and Grunberger, D (1978), Restriction enzyme analysis and structural changes in superhelical DNA modified in vitro with benzo(a)pyrene 7,8, dihydrodiol, 9,10 oxide, Amer.Chem.Soc. Meeting, Miami, 101 Abs.

Pulkrabek, P, Leffler, S, Grunberger, D, and Weinstein, IB (1979), Modification of DNA by a diol epoxide of benzo(a)pyrene: Relation to conformation, distribution and transfectional activity, Biochemistry 18, 5128-5134.

Leffler, S (1981), Direct Conversion of biomass to alcohol, In: Spirit of Enterprise, 1981 Rolex Awards, ed., GB Stone, WH Freeman & Co. San Francisco, p. 136.



		License No.: NJSL-70159/01/ Amendment No.: 034 Page 2 of 5
	New Jersey Radioactive Materials License	
0. 1	Radioactive material shall only be used at The Department of Nuclear Medicine, 1000 Gallopin	g Hill Road, Union, New
	Jersey.	
	Radioactive materials shall be used as follows: A. Radioactive material listed in items for the shall be used by on uncertain supervision of the	- following
	Douglas Nuble WDDE George Vellath, M.D. Jottrey Blonstein, M.D. Steven LeMer, Ph.D. M.D. B. Radioactive material interim item of shallopfused by Stowert Berlander, M.D. and Perry Compliance with other Use Agencies having Dereniction and resultations intradiopharmateur	/ S. Williams, M.D. ičals mišt be maintained.
13.	 The licensee will retain recently or distribution for the preserve of the license of addoactive in Misadministrations being defined is a radio marked of the insulation from a sealed source as follows: A. Administration of the wrong radio pharmaceutical or sealed rource. B. Administration to the wrong patient. C. Administration by a route place they like insulated by the prescribing physician. D. Administered diagnostic dost differing by more than 50 percent of the prescribing dose. E. Administered diagnostic dost differing by more than 50 percent of the prescribed dose. 	EW JERS
14.	Records of missimility strations are to include the following informations many of the referring the event, the direct on the patient and the action taken to opposite recordence. The licensee shall not open sealer similation realigned in the relation of the referring LIBERTY Sealed sources shall be used for the realized and/or the transmission of the referring statement	
	A. The test shall be capable of preceding the presence of UDUS microcuries of removable rad test sample. The test sample that be taken from the seried source or from the surface of sealed source is permanently more than to recede	ioactive material on the
	B. If the test reveals the presence of 0.005 microcuries of removable contamination, the licen withdraw the sealed source from use and shall cause it to be decontaminated and repaire accordance with the Department regulations. Within five days after obtaining results of filed with the Department describing the circumstances, the test results and the corrective	d or to be disposed of in the test, a report shall be
	C. The sealed sources shall be tested for leakage and/or contamination by appropriately trained	ined personnel.
16.	Repair, initial leak tests and disposal of sealed sources containing radioactive material shall manufacturer or by other persons specifically licensed by New Jersey or the Federal Govern service.	

The American Board of Madiology Organized through the cooperation of the American College of Radiology, the American Roentgen Ray Society, the American Radium Society, the Radiological Society of North Stmerica, the Section on Radiology of the American Medical Association, the American Society for Therapeutic Radiology and Oncology, and the Association of University Radiologists Hereby certifies that Steven Teffler, Ph.A., M.A. Kas pursued an accepted course of graduate study and clinical work, has met certain standards and qualifications and has have been been been been been authority of The American Board of Radiology On this eleventh day of December, 1989 Thereby demonstrating to the satisfaction of the Board that he is qualified to practice the speciality of \$16,632 6 Diagnostic Radiology Kobert & Parker Journ H. Jeallinkofter D

55 Park Avenue, Apt 10E New York, NY 10016 Office: (914) 666-2220 Fax: (914) 666-2987 Cell phone: (914) 980-8357 Email: kschwartz@arksradiology.com

Kenneth S. Schwartz, MD

Current Employment:

S and D Medical LLP, Bedford, New York

• Founder and Managing Partner 1999-Present 55+ person radiology group providing radiology services to ten hospitals and imaging centers in the New York metropolitan area

Arks Radiology Management, Inc. Bedford, New York

• President Board of Directors 1999-Present

Professional Experience:

11/98 - 11/99

 American Imaging Management, Inc. Northbrook, Illinois Radiology Practice Management Company Chief Medical Officer
 Responsible for supervision of utilization of radiology services – three million lives.
 Supervised five Medical Directors.

8/96 - 12/98

 Complete Management, Inc., New York, New York New York Stock Exchange Physician Practice Management Company Senior Executive Vice President – Business Development and Chief Medical Officer

6/96 - 12/98

 Northern Metropolitan Medical P.C., Jefferson Valley, New York President & CEO
 Directed a 50 multi-specialty provider group practice.

1996 - 1998

• St. Francis Hospital, Poughkeepsie, New York Director of Radiology

3/95 - 11/96

• St. Francis Hospital & Mount Sinai Hospital, *Hartford, Connecticut* System Director Diagnostic Imaging Director of Residency Program-University of Connecticut at St. Francis Hospital

2/91-3/95

• Putnam Hospital Center, Carmel, New York Medical Director

10/84 - 8/96

• Advanced Alliance Management Corporation, Jefferson Valley, New York President and CEO

CURRICULUM VITAE: KENNETH S. SCHWARTZ, MD

12/83 - 3/95

 Northern Metropolitan Radiology Associates, P.C., Jefferson Valley, New York President & CEO

1982 - 1997

• Clinical Reviewer IPRO Westchester-Putnam Division Board of Directors **1995-1997**

Current Academic Appointments:

7/07 - Present

Adjunct Clinical Associate Professor Department of Medical Imaging, NYCOM of NYIT

Present Hospital Appointments:

Queens Long Island Medical Group Garden City, NY 11530 5/08

Bon Secours Community Hospital Port Jervis, NY Attending Radiologist 9/07

Huntington Hospital Huntington, NY Interim Director of Radiology 9/06

Mercy Medical Center Rockville Centre, NY Interim Director of Radiology 5/06

New York Downtown Hospital New York, NY Interim Director of Radiology 12/05

Brookhaven Memorial Hospital Medical Center Patchogue, NY Attending Radiologist 6/04

Kingsbrook Jewish Medical Center Brooklyn, New York Attending Radiologist 3/01

Coler-Goldwater Specialty Hospital Roosevelt Island, New York Director of Radiology 1/04

Past Hospital Appointments:

St. Vincent's Midtown Hospital (Hospital Closed) New York, NY Attending Radiologist **11/04 – 8/07**

St. Agnes Hospital (Hospital Closed) White Plains, New York Director of Radiology 1/02 – 10/03

Ellenville Hospital Ellenville, NY Director of Radiology **3/02 - 6/06**

Hudson Valley Hospital Center Peekskill, NY Director of Radiology 9/81-3/95

Putnam Hospital Center Carmel, NY Director of Radiology 1/84 – 2/91

Nyack Hospital Nyack, NY Attending Radiologist Clinical Radiology Supervised Ultrasonongraphy Department 1/77 – 9/81 SouthSide Hospital Bayshore, NY Attending Radiologist 12/03

Forest Hills Hospital Forest Hills, New York Director of Radiology 4/03

Medical School:

1972

 Albert Einstein College of Medicine, Bronx, New York M.D. Degree

Postgraduate Training:

7/72-6/73

• North Shore University Hospital, Memorial Hospital-Sloan Kettering Cornell Cooperating Program Internship, Medicine

7/73 - 6/76

• North Shore University Hospital, Memorial Hospital-Sloan Kettering Cornell Cooperating Program Residency, Diagnostic Radiology

Professional Appointments:

- 1973 National Board of Medical Examiner (#129048)
- 1976 Diplomate, American Board of Radiology
- 1988 American Board of Quality Assurance and Utilization Review Physicians

Professional Organizations:

1981 - 1995	Radiation Safety Officer, Hudson Valley Hospital Center
1982 - 1984	Member, Board of Directors, Area 9 PSRO
1985 - 1987	Member, Board of Health, Putnam County
1985 - 1996	Chief Executive Officer, Advanced Alliance Management Corporation
1985 - 1997	Member, Board of Directors, IPRO, and Westchester-Putnam Division
1989	Medical Director, Department of Radiologic Technology, Orange County
	Community College
1989	Board of Directors, Hudson Valley IPA
1993 - 2002	Member, Board of Governors, Albert Einstein College of Medicine Alumni
	Association

Professional Memberships:

- Member, American Medical Association
- Member, American Institute of Ultrasound in Medicine
- Member, Radiological Society of North America
- Member, American College of Radiology
- Member, Society of Breast Imaging

Licensure:

- New York, License #116358, July 2nd, 1973
- New Jersey, License #MA47781, July 1st, 2001
- Connecticut, License #029282 July 22nd, 1988
- Florida, License #ME78378 January 27th, 1997
- Illinois, License #036-102318 April 10th, 2000

Poster Exhibit:

Diagnosis and Management of Breast Calcifications, Sehgal, Cinti, Weigert, Friar, Schwartz, Ramsby, Association of University Radiologists, Birmingham, Alabama, April 17, 1996.

Presentations:

Exhibit: "Arthrography and Arthroscopy", American Academy of Orthopedic Surgeons
New Advances in Radiology, Medical Grand Rounds, St. Francis Hospital and
Medical Center
Case Presentation, Professor Rounds, St. Francis Hospital and Medical Center
Symposium at the Culinary Institute of America for Saint Francis Hospital of
Poughkeepsie Neurological Consequences of Spinal Pathology
Robertson Stevens Healthcare Conference, CMI Presentation
Albert Einstein Alumni Student, New Forms of Healthcare Organizations
Healthcare Financial Management Educational Foundation PPM Seminar

Publications:

"Spinal Epidural Hematoma", Liebeskind, Schwartz, et al, Neuroradiology, 8: 191-193, 1975

"The Big Rib Sign", Naidich, Hyman, Schwartz, et al, Radiology, Vol. 131, No. 1:1-8, July 1979

"Adrenal Pseudotumor on CT", Mitty, Cohen, Sprayregen, Schwartz, <u>American Journal of Roentgenology</u>, Vol. 141, No. 4:727-730, October 1983

"Prevalence and Clinical Features of Mitral Annular Calcium in Women and Men Over 62 Years of Age", Arnow, Starling, Schwartz, <u>American Journal of Cardiology</u>, August 1986

"Correlation of Aortic Cuspal and Aortic Root Disease with Aortic Systolic Ejection Murmurs and with Mitral Annular Calcium in Persons Older than 62 Years in a Long-Term Health Care Facility", Arnow, Schwartz, Koenigsberg, <u>American Journal of Cardiology</u>, Vol. 58, 651-652, September 1986

"Ambulatory Electrocardiographic Monitoring and Left Ventricular Ejection Fraction in Elderly Patients", Arnow, Epstein, Schwartz, Koenigsberg, <u>Clinical Research</u>, Vol. 35, No. 1, 1987

"Correlation of Murmurs of Mitral Stenosis and Mitral Regurgitation with Presence or Absence or Mitral Annular Calcium in Persons Older than 62 Years in a Long-Term Health Care facility", Arnow, Schwartz, Koenigsberg, <u>American Journal of Cardiology</u>, Vol. 59, No. 1:181-182, January 1987

"Correlation of Serum Lipids, Calcium and Phosphorus, Diabetes Mellitus, Aortic Valve Stenosis and History of Systemic Hypertension with Presence or Absence of Mitral Annular Calcium in Persons Older than 62 Years in Long-Term Health Care Facility", Arnow, Schwartz, Koenigsberg, <u>American Journal of</u> <u>Cardiology</u>, Vol. 59, No. 2:381-382, February 1987

"Prevalence of Tricuspid Annular Calcium Diagnosed by Echocardiography in Elderly Patients", Arnow, Schwartz, Koenigsberg, <u>American Journal of Noninvasive Cardiology</u>, 1:275-277, 1987

"Value of Five Electrocardiographic Criteria Correlated with Echocardiography Left Ventricular Hypertrophy in Elderly Patients", Arnow, Schwartz, Koenigsberg, <u>American Journal of Noninvasive Cardiology</u>, No. 1:152-154, 1987

"Correlation of Complex Ventricular Arrhythmias Detected by Ambulatory Electrocardiographic Monitoring with Echocardiographic Left Ventricular Hypertrophy in Persons Older than 62 Years in a Long-Term Health Care Facility", Arnow, Epstein, Schwartz, Koenigsberg, <u>American Journal of Cardiology</u>, Vol. 60, No. 8:730-732, May 1988

"Correlation of Complex Ventricular Arrhythmias and Ejection Fraction with New Cardiac Events in Elderly Patients", Arnow, Epstein, Koenigsberg, Schwartz, <u>Clinical Research</u>, Vol. 36, No. 3, 1988

"Usefulness of Echocardiographic Ventricular Hypertrophy in Predicting New Coronary Events and Artherothrombotic Brain Infraction in Patients Over 62 Years of Age", Arnow, Koenigsberg, Schwartz, <u>American Journal of Cardiology</u>, Vol. 61, No. 15:1349-1351, June 1988

"Usefulness of Echocardiographic Left Ventricular Hypertrophy, Ventricular Tachycardia, and Complex Ventricular Arrhythmias in Predicting Ventricular Fibrillation or Sudden Cardiac Death in Elderly Patients", Arnow, Koenigsberg, Schwartz, <u>American Journal of Cardiology</u>, Vol. 62, 1124-1125, November 1988

"Usefulness of Echocardiographic and Electrocardiographic Left Ventricular Hypertrophy in Predicting New Cardiac Events and Artherothrombotic Brain Infraction in Elderly Patients with Systemic Hypertension or Coronary Artery Disease", Arnow, Koenigsberg, Schwartz, <u>American Journal of Noninvasive Cardiology</u>, 3:367-370, 1989

HE AMENTICAL BOARD OF BADIOLOGI a agamized through the cooperation of the American Collego of Radiology, the American Roentgen Ray Suciety, the American Radium Society, the Radiological Society of North America, the Section on Radiology of the American Medical Desociation and the American Society of Therapeute Radiologists Hereby cortifics that Kenneth Stephen Schvurlz, M.A. Has pursued an accepted course of graduate study and clinical work, has met certain standwords and qualifications and has passed the examinations conducted under the authority of The American Board of Radelogy On this eighteenth day of June, 1975 Thoreby domonstrating to the satisfaction of the Board that he is qualified to practice the specially of Biagnostic Nudiology C. allere Good - Robert N. Cooley

Page 1 of 7 Pages

CITY OF NEW YORK RADIOACTIVE MATERIALS LICENSE

Pursuant to the New York City Charter and Article 175 of the New York City Health Code and in reliance on statements and representations heretofore mude by licensee designated below, a license is hereby issued authorizing such licensee to transfer, receive, possess and use the radioactive material(s) designated below; and to use such radioactive materials for the purpose(s) and at the place(s) designated helow. This license is subject to all applicable rules, regulations and orders now or hereafter in effect of all appropriate regulatory agencies and to any conditions specified below.

In accordance with Application received 1 February 2005 from Robert Hettenbach, Executive Director, North Shore University Hospital at Forest Hills; Livense number 91-1515-02 is hereby amended in its entirety to read:

	LICENSEE						
		-	3a.:	License Number:	91	-1515-02	
1. Name:	North Shore Unix at Forest Hills	ersity llospit	al 3: 17. 1 3b. 1.	Amendment Numbe			7
Z. Address;	102-01 66 Roads Qucens, New Yo			Expiration Dates	¢۳ * کار چ	January 2010	site:
			5	Reference Number:	. 91- f	-3118-01	
6. Radioactive mate number)	erials (element	C.	liomical and/	or physical form	8.		quantity licensee may ny one time
in §175.103(d) (1 Code	naterial identified)(1), NYC Health	"Ta w D ar	diobiologic w indrawn or to rug Applicatio proved by FI nvestigational		(A)	As necessar in Subitem	y for uses authorized D(A)
(13) Any radioactive m in §175.103(c)(1)(Code	ateiral identified : (i), NYC Llealth	ra no "N up "L ap (C	ot withdrawn o lew Drug App proved by FD nvestigational plication acce ENGRATOR	ith an active (<i>i.e.</i> or terminated) blication ^u (NDA)	(B)	As necessar in Subitem	y for uses authorized)(B)
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		Page 2 of 7 Pages
CITY OF NEW YORK	License Number: 91-1515-02	1
RADIOACTIVE MATERIALS LICENSE	Amendment Numher: 17	
	Reference Number:	
6. Radioactive materials (element number		quantity licensee at any one time
(ሮ) Tecnetium-99m	 (C) DTPA Acrosol with an active (i.e. (C) 7.4 Gigabet not withdrawn or terminated) "New Drug Application" (NDA.) approved by FDA 	quercis
(D) Cohalt-57		ot to exceed 925 crels per source
(匚) Cobalt-57		of to exceed 740 erels per source
(F) Harium 133	 Radioactive Sealed Sources and Devices Scaled Sources with an active (i.e. = (F) 5 Sources no not with drawn or terminated); Subtry Evaluation of Device Subtry Evaluation of Device Subtry Evaluation of Device 	t to exceed 18.5 rels per source
(G) Cesium-137		t to exceed 18.5 rels per source
(H) Technetium-99m		nounts not to exceed querels

		·	Page 3 of 7 Page
CITY OF NEW YORK RADIOACTIVE MATERIALS LICENSE		License Number: 91-1515-02	
		Amendment Number: 17	
;		Reference Number:	
6.	Radioactive materials (element		quantity licensee
(1)	lodine-131	 (I) Sodium Iodide Capsules with an (I) 3.7 Gigabe active (i.e. not withdrawn or terminated) "New Drug Application" (NDA) approved by FDA 	cquerels
(1)	Technetium-99m	 (J) Sodium Pertechnetate (MediPhysics, NDA 17-267, 17- 471; CIS-US, NDA 17-321; Mallinekrodt, NDA 17-725) 	cquerels
(K)	Technetium-99m	(K) Sestamibi Kit (DuPont Merck, (K) 11.1 Gigat NDA 19-785)	ecquerels
(T.)	Technetium-99m	(L) Tctrofosmin Kit (Amersham, NDA (L) 11.1 Gigab	ecquerels
M)	Thallium-201	(M) Silhallous Chloride (DuPont Merck, (M) 1.9 Gigabe NDA 17-806, Malliockrudt, NDA 48-160, MediPliysics, NDA 18- Pro, Brucco Diagnostics; NDA 18- 5485, 3485, 45	cquerels
۲)	Strontium-89	(N) (N) 740 Megal Physics/Amersham, NDA 20-134)	ecquerels
D)	Sumarium-153	(@); * Samarhum SMC1S3-EDTMP (O) 74 Gigabe	cquerels
P)	Palladium-103	(P) Scaled Brachytherapy Sources (P) 37 Gigaber (Theragenics Corp., Model 200)	querels
Q)	ludine-125		querels, no seed to Gigabecquerels
·	6~4 . 9	:0T 042402830434 H3 Y2010043:m043	20:01 9002-60-8

			Page 4 of 7 Page
	CITY	OF NEW YORK	License Number: 91-1515-02
RADIOACTIVE MATERIALS			Amendment Number: 17
		LICENSE	Reference Number:
			<u>CONDITIONS</u>
9.	Autho	nized Use:	
	(A)	Any uptake, dilution or c	cretion procedure authorized by applicable law.
	(B)		on procedure authorized by applicable law.
	(C)	Pulmonary function studi	s using either a Mallinckrodt Sunaco, Inc., a Biodex Inc. Venti-Scan II, a Cadema System, Inc. ation Aero-Vent aerosol delivery system.
	(D)	Flood calibration sources	(Non-Human Use)
	(E)	through (G) Calibration s	ources (Non-Human Use).
	(H)	Calibration check and ref	trence material (Non-Hurdon IIse).
,	(1)	Treatment of hyperthyroid	lismi
	(J)	Blood pool imaging.	
· . ·	(K)	Myocardial imaging agen suspected myocardial infa	usedito distinguish normal from abnormal myocardium, to localize abnormality in patients with fellom, and the guardination of myocardium
	(L)	Imaging of the myocardid delineation of regions of r	o following separate administrations under exercise and resting conditions, and in the every solution of infarcted myocardian.
	(M)		aing diagnosis and locatization of myocardial infarction, and prognosis regarding survival after e myocardial intarction durastics, suc and size of perfusion defect.
	(N)	Relief of bone pain in pati	ents with poinful skeletal metal as is
	(O)	Relief of pain in patients	with confirmed osteoblastic metastatic bone lesions that enhance on radionuclide bone scan.
	(P)	For interstitial treatment o	f cancers.
	(Q)	For interstitial treatment of	f cancers.
10.			ed only in the Nuclear Medicine Department, Rooms 3, 4, 5, 6, Hot Lab, and OR Suite 7. Forest Hills, 102-01 66 Road, Queens, New York 11375.
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CITY OF NEW YORK RADIOACTIVE MATERIALS LICENSE LICENS	I .			Page 5 of 7 Pages
LICENSE Reference Number: 11. The licenses shall comply with the provisions of Anicle 175 of the New York City Health Code entitled "Endition Control." 12. Failure to pay the fee for inspection of a radiuscrive material site, upon notification from the Department, will result in termanico of this license. 13. Redionative materials listed in lens 6 are authorized for use by, or under the supervision of, the following individual(s) for the materials and uses indicated. 14. Mathematical User Edmond Outschwer, M.D. Subterns 6(A) through 6(M) Brench Robinson, N.D. Subterns 6(A) through 6(M) Namba Corefored, M.D. Subterns 6(A) through 6(M) Authorized User Subterns 6(A) through 6(A) Noteron ijzzzen, M.D. Subterns 6(A) through 6(A) Alan Tarler, M.D. Alan Tarler, M.D. 14. The radiation asfely officer for this license? 15. Radioactive material as a sealed subter failed with the provision of the seale in accordance with Tarler 21, Part 312 of the Coult of Poderal Regeneric Anima P.O.Byt. Jan Alar 24. <			License Number: 91-1515-02	
Reference Number: 11. The lectence shall comply with the provisions of A-ricle 125 of the New York City Health Code entitled Taduation Connul." 12. Failure to pay the fee for inspection of a ratifunctive material site, upon notification from the Department, will result to termanation of this license. 13. Redicactive materials listed in Heni 6 are authorized for use by, or under the supervision of, the following individual(s) for the materials and uses indivated User Authorized User Materials and Use Edinom Outlakhme, M.D. Subietions 6(A) through 6(H), 6(1) through 6(M) Dirace Campbell, M.D. Subietions 6(A) through 6(H), 6(1) through 6(M) Dirace Campbell, M.D. Subietions 6(A) through 6(H), 6(1) through 6(M) Dirace Campbell, M.D. Subietions 6(A) through 6(H), 6(1) through 6(M) Dirace Campbell, M.D. Subietions 6(A) through 6(H), 6(1) through 6(M) Dirace Campbell, M.D. Subietions 6(A) through 6(H), 6(1) through 6(M) Dirace Campbell, M.D. Subietions 6(A) through 6(M) Subietions 6(A) through 6(M) Subietions 6(A) through 6(M) Juad Cabyae, M.D. Subietions 6(A) through 6(M) Attain Taler, M.D. Subietions 6(A) through 6(M) Juad Tabaee, M.D. Subietion 6(A) through 6(M) Attain Table, M.	RA		Amondment Number: 17	
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of this hocinge. 13. Radioactive muterials listed in Item 6 are authorized for use by, or under the supervision of, the following individual(s) for the materials and uses indicated: Authorized Liser Edmond Bulakhane, M.D. Bare Campbell, M.D. Ulan Gotyan, M.D. Roberto Lipszeteiu, M.D. Subitems 6(A) through 6(H), 6(I) through 6(M) Subitems 6(A) through 6(II), 6(I) through 6(M) Ann Tafler, M.D. 14. The radiation suftry officer for this lifebrarial Kanneth schwartz, M.D. Alan Tafler, M.D. 15. Radioactive material as a scaled submethal in the present of submethal for the subset of submethal for the subset of the subset of the subset of subse	11.	The licensee shall comply with the	provisions of Article 175 of the New York City Health Code entitled "I	adiation Control."
materials and uses indicated: Audiumized User Materials and User Edmond Balakhane, M.D. Subiterns 6(A) through 6(H), 6(J) through 6(M) Brace Campbell, M.D. Subiterns 6(A) through 6(H), 6(J) through 6(M) Bilan Golyan, M.D. Subiterns 6(A) through 6(H), 6(J) through 6(M) Stabilerns 6(A) through 6(H), 6(J) through 6(M) Subiterns 6(A) through 6(H), 6(J) through 6(M) Stabilerns 6(A) through 6(H), 6(J) through 6(M) Subiterns 6(A) through 6(M) Namar Cortex (M.D.) Subiterns 6(A) through 6(M) Jawa 7 Tabler, M.D. Subiterns 6(A) through 6(M) Ite therapy physicists for this license science states and through control to the science	12.	Failure to pay the fee for inspectio of this license.	of a radioactive material site, upon notification from the Department, w	vill result in termination
Edmond Bulakhane, M.D. Bruce Campbell, M.D. Bruce Campbell, M.D. Mohan Corbord, M.D. Diana Golyan, M.D. Subitems 6(A) through 6(H), 6(J) through 6(M) Subitems 6(A) through 6(J), 6(J) through 6(M) Subitems 6(A) through 6(J), 6(J) through 6(M) Subitems 6(A) through 6(M) All 14. The rediation safety afficer for this license for the subitems 6(A) through 6(M) All 15. Radioactive underial as a scaled southerhull high te open day make the therapy physicists for thus license subitemits which appear flockellert or sageregated shall not be used in humans. 16. Any radioplarmaceutical or nadiobining witch agriculture of the subitems which appear flockellert or sageregated shall not be used in mechanism. 17. Technetium-99m labeled suffur collid programming which appear flockellert or sageregated shall not be used in humans. 18. Any radioplarmaceutical or nadiobining which appear flockellert or sageregated shall not be used in mechanism. 19. Fart 312 of the Code of Bederat Regathloadtor approximation reputations of reputations of the same flockeller of sageregated shall be used in mechanism. 19. Any radioplarmaceutical or mathematical terms accurate statical by FibA shall be used in mechanism. 19. Any radioplant and the same flockeller of sageregated shall be used in mechanism. 19. Any radioplant and the same flockeller of the code of Bederat Regathloadtor approximation terms accurate statical by the same flockeller of the same fl	13,	Radioactive materials listed in Iter materials and uses indicated:	6 are authorized for use by, or under the supervision of, the following	ndividual(s) for the
 Bruce Campbell, M.D. Marsha Crifford, M.D. Bigan Golyan, M.D. Stephen Robinson, M.D. Stephen Robinson, M.D. Navel Tabezer, M.D. Javad Tabezer, M.D. Javad Tabezer, M.D. Alan Tafler, M.D. 14. The radiation safety officer for this lifeting is Kenneth Schwartz, M.D. Alan Tafler, M.D. 15. Radioactive material as a sealed subtrement is charter, M.D. Alan Tafler, M.D. 16. The radiation safety officer for this lifeting is Kenneth Schwartz, M.D. Alan Tafler, M.D. 17. Technetium-99m labeled suffur collidifyrearations which septemizified collect of sagersgated shall not be used in humans. 18. Any radiophormaceutical or radiobiologic syffrequerreinand active.IND Fault be used in uccerdance with Title 21, Part 312 of The Code of Bederal Kephalability in Schwartz, S		Authorized User	Materials and Use	
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 The therapy physicists for this licensemet Linnes Astarity, DABAR, James Avanzato, DABMP, and Raymond Beers, DABMP. Technetuum-09m labeled sulfur collid preparations which appendificeculent of aggregated shall not be used in humans. Any radiopharmaceutical or radiobiologic with accurrent and active IND issued by PDA shall be used in accordance with Title 21, Part 312 of The Code of Federal Regulations of any successor regulation. 	14.	The radiation sufcty officer for this	cense is Kenneth Schwartz, MJD:	
 17. Technetuurn-99m labeled sulfur colloid proparations which appendition of agaregated shall not be used in humans. 18. Any radiopharmaceutical or radiobiologic with acurrent and active IND (successfor FDA shall be used in accordance with Title 21, Part 312 of The Code of Pederal Regulations for any successfor regulation (state) and the successfor regul	15.	Radioactive material as a sealed so	cc'shall not be opened by the licensee.	
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18. Any radiopliarmaceutical or radiobiologic with a current and a bit well ND fisher by TDA shall be used in accordance with 'Litle 21, Part 312 of The Code of Pederal Residuations of any successor regulations of a state of the code of Pederal Residuation of the code o	17,	·		(I)
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						Page 6 of 7 Pages	
			WYORK		License Number: 91-1515-02		
RA	DIOA	CTIVE LICEN	MATERIALS		Amendment Number: 17		
					Reference Number:		
19.	The f	ollowing	conditions apply for	r ioc	line-131 radiopharmaceutical therapy:		
	(#)	Patien	t release shall be ba	aseđ	on either of the following conditions:		
		(1)			stered to the patient or the patient's calculated activity has decreased the measured maximum dose rate at a distance 1 meter from the patie		
		(2)			nented patient-specific parameters which otherwise result in complian tion 175,103(c)(9) of the New York City Health Code	ce with the	
	(b)	supply of radi	ing the released pat	tieni	required by Section 175.103(f)(3) of the New York City Health Cod , or the patient's competent representative, with both oral and written educing exposure to other individuals. The written instructions shall a	instructions on the risk	
		(1)	The name and te or questions.	lepi	none number of a knowledgeable person to contact in the event the p	atient has any problems	
	·	(2)	Information rega	rdu K	in the type of treatment given.		
		(3)	Precautions rega arrangements.		b distances that should be maintained from other individuals, includin	g separate sleeping	
		(4)	Precautions rega	i ja Sain Fiji	E minimizing time in public places.		
		(5)	Precautions to re	duč	e the spread of radioactive contamination (including, but not limited t	o, vomitus and urine).	
		(6)			achiof the precautions should be intellicet.		
	(c)	adınıni: and if 1	stration, any require required for patient	ed d	be maintailied for each pairing and shall contain at least the following lecay calculations, date and time of patient release, copy of the patien case either patient's dose rate measurements (including the specific su l performing the survey), or patient-specific parameters.	t's written instructions,	
20,	The fo	llowing co	onditions apply for	per	munent brachytherapy implants:		
	(a)	lodine-	125 implant patient	Cis r	slease shall be based on either of the following conditions:		
		(1)	The activity admi Gigabecquerel.	in i st	ered to the patient or the patient's calculated activity has decreased to	less than 0.33	
		(2)	The measured ma	axin	num dose rate at a distance 1 meter from the patient's target organ is	ess than 0.01 mSv/hr.	
	(b)	Palladiı	m-103 implant pat	 ient	's release shall be based on either of the following conditions:		
		(1)	The activity admi Gigabecquerel.	inist	cred to the patient or the patient's calculated activity has decreased to	less than 1.5	
i		(2)	The measured ma	axin Nu u	num dose rate at a distance 1 meter from the patient's target organ is	ess than 0 03 mSv/hr	

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CITY OF NEW YORK	License Number: 91-1515-02	
RADIOACTIVE MATERIALS	Amendment Number: 17	
	Reference Number:	
supplying the released pa	nce required by Section 175.103(b)(3) of the New York City Health Content, or the patient's competent representative, with both oral and written ds of reducing exposure to other individuals. The instructions shall at he	n instructions on the
(1) The name and tele questions.	ephone number of a knowledgeable person to contact in the event the part	ient has any problem
(2) A description of p	he size and number of implanted radioactive seeds.	
(3) Specification of the	e length of time the patient should remain at specified distances from oth	er individuals.
a provided strain secus shall be han The individual ref	s or linens that come into contact with the implant as well as the patient's shall be examined for any seeds that have been released from the impladed with a provided for the implaced in a provided container away erred to in Subcondition (c) (1), above shall be notified in order to proper nd/or wringted seeds.	ant site. Any release from other persons
administration, any require	「新聞」 1111年前日本 - 111日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本	ritten instructions, nent used and the n
ficalth Code shall govern unless the more restrictive than the regulations	ned in the documents including any enclosures listed below. Article 175 statements representations and procedures in the licensee's application an	of the New York
 (A) Application receiv (B) Letter dated 22 M (C) Letter dated 13 Ap 		
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	FOR THE NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGIENE	•
MAY 3 1 2005		
DPM/ih	Daniel P. Hayes	
	Scientist Radioactive Materials Division Office of Radiological Health	