

# Danbury Hospital

February 2, 2006

Licensing Assistant Section  
Nuclear Materials Safety Branch  
U. S. Nuclear Regulatory Commission, Region I  
475 Allendale Road  
King of Prussia, PA 19406-1415

NMSB-1

03001274

RE: NRC License No. 06-08544-01 (Danbury Hospital)  
Amendment Request

RECEIVED  
REGION I  
2006 FEB 15 AM 10:44

To Whom It May Concern:

Enclosed you will find an application and supporting information for an amendment to the Danbury Hospital material license. We recently completed our 10-year renewal process. Included in this proposed amendment will be:

1. Addition of a satellite facility (owned and operated by Danbury Hospital) for nuclear cardiology diagnostic imaging located in Southbury, Connecticut. The address of the facility will be:  
Cardiovascular Diagnostic Center (Danbury Hospital)  
22 Old Waterbury Road, Suite 106  
Southbury, CT 06488  
Tel: 203-262-4270

The facility will be staffed by Danbury Hospital employees and will include 1 gamma camera and other equipment required for operation. Tc-99m and Tl-201 will be used for diagnostic imaging and other sealed sources will be required for instrument calibration, etc. We will have a hot lab and on-site radioactive waste storage. No therapeutic modalities using isotopes will be performed at this site. Diagrams of the planned facility and hot lab are enclosed.

The facility will be under the supervision of the Radiation Safety Officer (Dr. William Johns) and our medical physics staff at Danbury Hospital, with activities being overseen by the Radiation Safety Committee at Danbury Hospital. All hospital policies and procedures will be followed at the satellite facility for compliance with NRC and State of Connecticut regulations.

2. We would like to add 2 physicians to our NRC license:
  - a. Robert Savino, OD: Dr. Savino is Chief of Endocrinology at Danbury Hospital. He is board certified in Endocrinology and has completed an 80-hour course in radiation physics/nuclear

138427

NUCLEAR MATERIALS-002

endocrinology (certificate enclosed). He has been supervised here at Danbury Hospital in the administration of I-131 therapies to 10 patients with hyperthyroidism and 3 patients with thyroid cancer. He is applying for privileges under 10 CFR 35.932 (treatment of hyperthyroidism) and 35.934 (treatment of thyroid cancer). Preceptorship statements are also attached.

- b. Susan Mani, MD: Dr. Mani is a staff Cardiologist here at Danbury Hospital. She is board certified in Cardiology and Nuclear Cardiology. Here certifications are enclosed. She is applying for privileges for Nuclear Cardiology diagnostic imaging under 10 CFR 35.100 and 35.200.

Please inform us if you require any further information. Inquiries may be directed to the Radiation Safety Officer (Dr. William Johns).

Sincerely,



Patricia O'Connor  
Senior Vice President, Operations  
Danbury Hospital  
24 Hospital Avenue  
Danbury, CT 06810

WDJ;wdj  
2/2/06

<b>NRC FORM 313</b> (8-1999) 10 CFR 30, 32, 33 34, 35, 36, 39 and 40	<b>U. S. NUCLEAR REGULATORY COMMISSION</b>	APPROVED BY OMB: NO. 3150-0120  EXPIRES:08/31/2002				
<b>APPLICATION FOR MATERIAL LICENSE</b>						
Estimated burden per response to comply with this mandatory information collection request: 7.4 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.						
<b>INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.</b>						
<b>APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:</b> DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001  <b>ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:</b>  <b>IF YOU ARE LOCATED IN:</b>  CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:  LICENSING ASSISTANT SECTION NUCLEAR MATERIALS SAFETY BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PA 19408-1415  ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:  SAM NUNN ATLANTA FEDERAL CENTER U. S. NUCLEAR REGULATORY COMMISSION, REGION II 61 FORSYTH STREET, S.W., SUITE 23785 ATLANTA, GEORGIA 30303-6831	<b>IF YOU ARE LOCATED IN:</b>  ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:  MATERIALS LICENSING SECTION U.S. NUCLEAR REGULATORY COMMISSION, REGION III 801 WARRENVILLE RD. LISLE, IL 60532-4351  ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:  NUCLEAR MATERIALS LICENSING SECTION U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 611 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TX 78011-8084					
PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.						
1. THIS IS AN APPLICATION FOR (Check appropriate item) <input type="checkbox"/> A. NEW LICENSE <input checked="" type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER <u>06-08544-01</u> <input type="checkbox"/> C. RENEWAL OF LICENSE NUMBER _____	2. NAME AND MAILING ADDRESS OF APPLICANT (include Zip code) <u>Danbury Hospital</u> <u>24 Hospital Avenue</u> <u>Danbury, CT 06810</u>					
3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED <u>Cardiovascular Diagnostic Center (Danbury Hospital)</u> <u>22 Old Waterbury Road, Suite 106</u> <u>Southbury, CT 06488</u>	4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION <u>William D. Johns, MD (Rso)</u>  TELEPHONE NUMBER <u>203-797-7222</u>					
SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.						
5. RADIOACTIVE MATERIAL. a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time.	6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.					
7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.	8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.					
9. FACILITIES AND EQUIPMENT.	10. RADIATION SAFETY PROGRAM.					
11. WASTE MANAGEMENT.	12. LICENSEE FEES (See 10 CFR 170 and Section 170.31) <table style="width:100%; border: none;"> <tr> <td style="border: none;">FEE CATEGORY</td> <td style="border: none;">AMOUNT ENCLOSED \$</td> </tr> <tr> <td style="border: none;"> </td> <td style="border: none;"> </td> </tr> </table>		FEE CATEGORY	AMOUNT ENCLOSED \$		
FEE CATEGORY	AMOUNT ENCLOSED \$					
13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.  THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.  WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.						
CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE <u>William D. Johns, MD - Radiation Safety Officer</u>	SIGNATURE <u>William D. Johns</u>	DATE <u>2/2/06</u>				
<b>FOR NRC USE ONLY</b>						
TYPE OF FEE	FEE LOG	FEE CATEGORY				
AMOUNT RECEIVED \$		CHECK NUMBER				
COMMENTS		DATE				
APPROVED BY						

**APPLICATION FOR MATERIAL LICENSE – AMENDMENT REQUEST  
DANBURY HOSPITAL  
NRC FORM 313 – LICENCE 06-08544-01  
SUPPLEMENTARY INFORMATION – ITEMS 5-11**

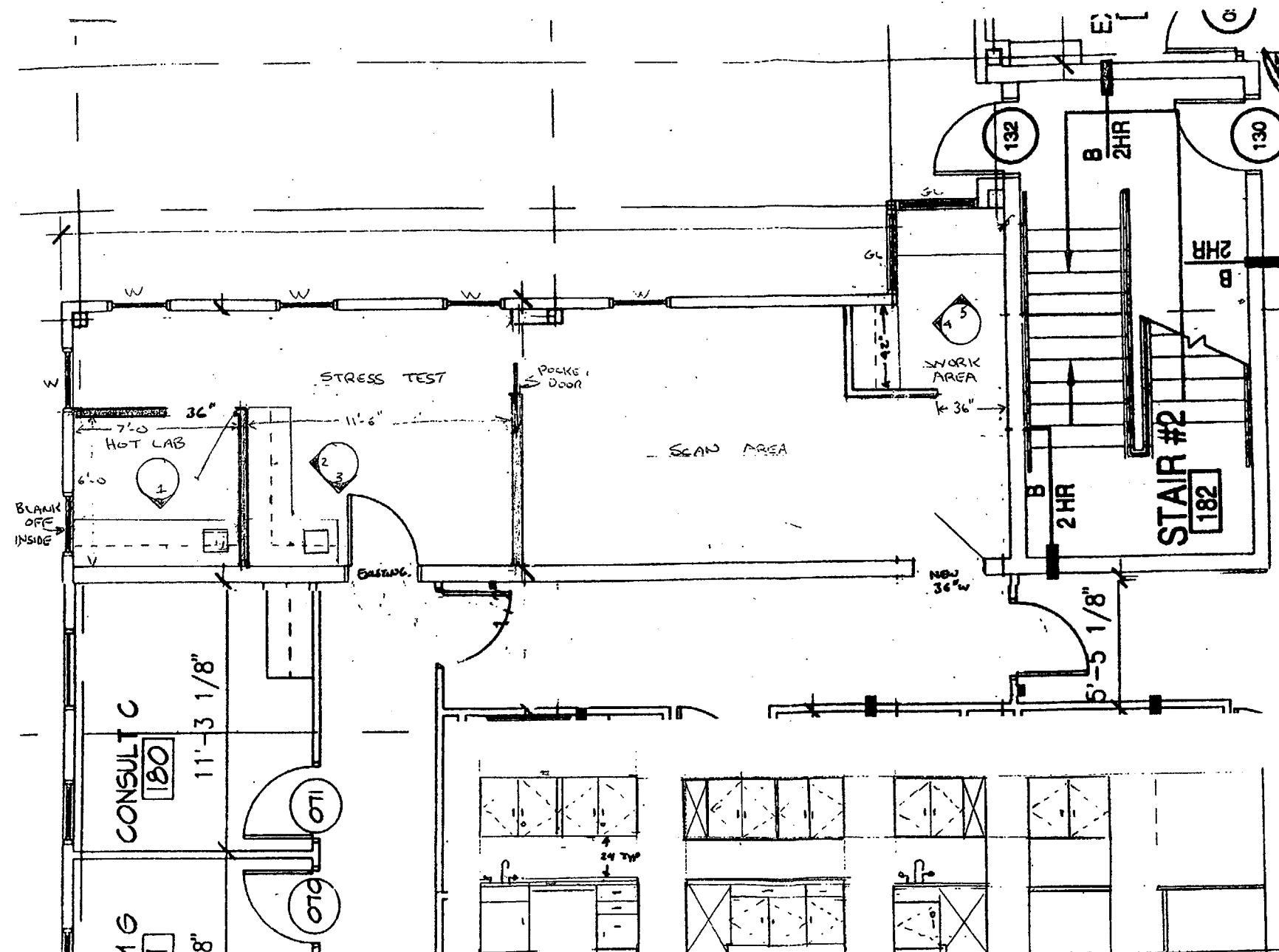
5. Radioactive Material- As per license. The Southbury site will only be using imaging isotopes Tc-99m & Tl-201. Other sealed sources (Cs-137, Co-57, etc.) used for instrument calibration will also be kept on site.
6. Purpose for Which Licensed Material Will be Used- Diagnostic Imaging.
7. Individual(s) Responsible for Radiation Safety Program and Their Training Experience- William Johns, MD (RSO) & Vladimir Monastyrchenko, Ph.D. (Senior Medical Physicist) – both are on current license.
8. Training for Individuals Working in or Frequenting Restricted Areas – all employees will have yearly radiation safety inservicing. Certified Nuclear Medicine Technologists will be performing procedures.
9. Facilities and Equipment – Dual headed gamma camera, dose calibrator, well counter, survey meter, etc. All protocols for QC/QA will be performed as per Danbury Hospital license.
10. Radiation Safety Program – administered by William Johns, MD (RSO), will be following program established at Danbury Hospital. All procedures will also apply to the satellite facility.
11. Waste Management – There will be on-site storage for radioactive waste in lead barrels in the hot lab. These will be decayed to background. Some syringes will also be returned to the radiopharmacy vendor.



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William D. Johns, MD  
RSO

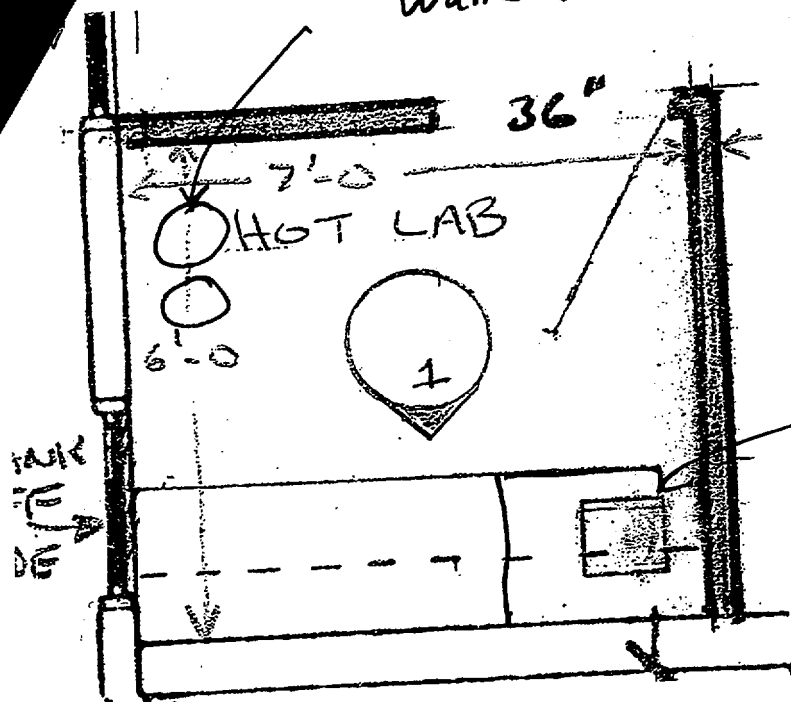




20" window sill

SOUTHBURY  
NEUC/CARD/STRESS

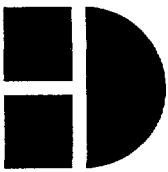
Waste storage (lead barrels)



Work area  
with lead  
shields &  
lead bricks

All isotopes will be locked securely in the hot lab. Appropriate lead shields / bricks will be used. Short-lived isotopes will be decayed to background in lead barrels. Area surveys will be done as per routine.

*Mythm m*  
H2O



## Danbury Hospital

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January 19, 2006

Nuclear Materials Safety Branch  
United States Nuclear Regulatory Commission, Region 1  
475 Allendale Road  
King of Prussia, Pennsylvania 19406-1415

Re: NRC License No. 06-08544-01

03001274

Subject: Addition of Robert Savino, D.O. to Hospital License

To Whom It May Concern:

We request the addition of Dr. Robert Savino to the Danbury Hospital NRC license as an authorized user for treatment of hyperthyroidism (35.932) and thyroid carcinoma (35.934). Dr. Savino is currently the Chief of Endocrinology here at the hospital. He completed his fellowship training in endocrinology in 1994 and coursework in radiological physics in 2003 (certificate attached).

He has completed 80 hours of classroom and laboratory training that includes radiation physics and instrumentation, radiation protection, mathematics pertaining to the use and measurement of radioactivity, and radiation biology. Dr. Joseph Belsky who is currently a licensed user has supervised him in treatment of hyperthyroidism in 10 individuals here at Danbury Hospital. Drs. Gupta and Johns who are currently licensed users have also supervised him in treatment of thyroid cancer in 3 individuals here at Danbury Hospital. We certify that he has successfully completed training and is competent in the use of I-131 to treat both hyperthyroidism and thyroid cancer.

Sincerely,

Shiv Gupta, MD (Preceptor)  
Chief of Nuclear Medicine  
Chairman, Radiation Safety Committee, Danbury Hospital

William Johns, MD (Preceptor)  
Nuclear Medicine  
Radiation Safety Officer, Danbury Hospital

Joseph Belsky, MD (Preceptor)  
Endocrinology, Danbury Hospital

WDJ:wdj  
1/19/06



**MEDICAL USE TRAINING AND EXPERIENCE  
AND PRECEPTOR ATTESTATION**APPROVED BY OMB: NO. 3150-0120  
EXPIRES: 10/31/2008**PART I -- TRAINING AND EXPERIENCE****Note:** Descriptions of training and experience must contain sufficient detail to match the training and experience criteria in the applicable regulation (10 CFR Part 35)

1. Name of Individual, Proposed Authorization (e.g., Radiation Safety Officer), and Applicable Training Requirements (e.g., 10 CFR 35.50)

Robert Savino, DO  
10. CFR 35.932 + 35.934

2. For Physicians, Podiatrists, Dentists, Pharmacists -- State or Territory Where Licensed

CT Medical License (no prior NRC License)

**3. CERTIFICATION**

- a. Provide a copy of the board certification. (Stop here if applying under 10 CFR Part 35, Subpart J or 35.590(a); continue if applying under other subparts.) *Ends Board*
- b. Provide documentation in appropriate items 4 through 10 of training or clinical case work required by 35.50(e); 35.51(c); 35.290(c)(1)(ii)(G) for AU seeking 35.200 authorization; 35.390(b)(1)(ii)(G); 35.396(d)(1) and 35.396(d)(2); 35.590(c); or 35.690(c).
- c. Provide completed Part II Preceptor Attestation, Items 11a through 11d.
- Stop here after completing items 3a, 3b, and 3c when using board certification to meet 10 CFR Part 35 training and experience requirements.

**4. INDIVIDUALS IDENTIFIED ON A LICENSE OR PERMIT AS RADIATION SAFETY OFFICERS (RSO), AUTHORIZED USERS (AU), AUTHORIZED MEDICAL PHYSICISTS (AMP), OR AUTHORIZED NUCLEAR PHARMACISTS (ANP) SEEKING ADDITIONAL AUTHORIZATIONS**

- a. Provide a copy of the license or broadscope permit listing the current authorization and (b) or (c)
- b. Complete items 6c (and 10 when training is provided by an RSO, AMP, ANP, or AU) and preceptor items 11b through 11d to meet requirements for: RSO in 35.50(c)(2) or 35.50(e); or AU in 35.290(c)(1)(ii)(G) or 35.390(b)(1)(ii)(G) or 35.590(c) or 35.690(c); or AMP under 35.51(c).
- c. Complete items 5, 6a, 6b, 10, and Preceptor items 11a through 11d to meet AU requirements in 35.396(a).

**5. DIDACTIC OR CLASSROOM AND LABORATORY TRAINING (optional for Medical Physicists)**

Description of Training	Location	Clock Hours	Dates of Training
Radiation Physics and Instrumentation 25 hours	American Association of Clinical Endocrinology Radiological Physics	80 hours total	10/11 - 10/12/2003
Radiation Protection 25 hours	11	11	11
Mathematics Pertaining to the Use and Measurement of Radioactivity 10 hours	11	11	11
Radiation Biology 20 hours	11	11	11
Chemistry of Byproduct Material for Medical Use	11	11	11
OTHER	See certificate of course syllabus		

## MEDICAL USE TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

## 6a. WORK OR PRACTICAL EXPERIENCE WITH RADIATION

Description of Experience	Name of Supervising Individual(s)	Location and Corresponding Materials License Number	Dates and/or Clock Hours of Experience

## 6b. SUPERVISED CLINICAL CASE EXPERIENCE (describe experience elements in 6a)

Radionuclide	Type of Use	No. of Cases Involving Personal Participation	Name of Supervising Individual	Location and Corresponding Materials License Number	Dates and/or Clock Hours of Experience
I-131	Hypothyroid Therapy 35-932	10 cases	Joseph Belsky MD	Danbury Hospital 06-8544-01	1/1/05 - 12/31/05 10 hours
I-131	Thyroid Cancer Therapy 35-934	2 cases	Shiv Gupta, MD	1)	1/1/05 - 12/31/05 4 hours
I-131	Thyroid Cancer Therapy 35-934	1 case	William John, MD	1)	1/1/05 - 12/31/05 2 hours
		see preceptorship form			

## MEDICAL USE TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

## 6c. TRAINING FOR SECTIONS 35.50(e), 35.51(c), 35.590(c), or 35.690(c)

Training Element	Type of Training *	Location and Dates

\* Types of training may include supervised (complete item 10 for 35.50(e), 35.51(c), and 35.690(c)), didactic, or vendor training.

## 7. FORMAL TRAINING Physicians (for uses under 35.400 and 35.600) and Medical Physicists

Degree, Area of Study or Residency Program	Name of Program and Location with Corresponding Materials License Number	Dates	Name of Organization that Approved the Program (e.g., Accreditation Council for Graduate Medical Education) and the Applicable Regulation (e.g., 10 CFR 35.490)

## 8. RADIATION SAFETY OFFICER (RSO) – ONE-YEAR FULL-TIME EXPERIENCE

- ☐ YES Completed 1 year of full-time radiation safety experience (in areas identified in item 6a) under supervision.  
☐ N/A of \_\_\_\_\_ the RSO for License No. \_\_\_\_\_

## 9. MEDICAL PHYSICIST – ONE-YEAR FULL-TIME TRAINING/WORK EXPERIENCE

- ☐ YES Completed 1 year of full-time training (for areas identified in item 6a) in therapeutic radiological physics (35.961) or medical physics (35.51) under the supervision of \_\_\_\_\_  
☐ N/A who is a medical physicist (35.961) or meets requirements for Authorized Medical Physicists (35.51);

and

- ☐ YES Completed 1 year of full-time work experience (at location providing radiation therapy services described and for topics identified in item 6a) for (specify use or device) \_\_\_\_\_  
☐ N/A under the supervision of \_\_\_\_\_ who is a medical physicist (35.961) or meets requirements for Authorized Medical Physicists (35.51) (specify use or device) \_\_\_\_\_

## MEDICAL USE TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

## 10. SUPERVISING INDIVIDUAL -- IDENTIFICATION AND QUALIFICATIONS

The training and experience indicated above was obtained under the supervision of (if more than one supervising individual is needed to meet requirements in 10 CFR Part 35, provide the following information for each):

A. Name of Supervisor

B. Supervisor is:

Shiv Gupta, MD☒ Authorized User☐ Authorized Medical Physicist☐ Radiation Safety Officer☐ Authorized Nuclear Pharmacist

C. Supervisor meets requirements of Part 35, Section(s)

35.934 (Cancer Therapy)

for medical uses in Part 35, Section(s)

D. Address

Danbury Hospital  
24 Hospital Avenue  
Danbury, CT 06810

E. Materials License Number

06-08544-01

## PART II -- PRECEPTOR ATTESTATION

Note: This part must be completed by the individual's preceptor. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each. This part is not required to meet training requirements in 35.590 or Part 35, Subpart J (except 35.980).

I attest the individual named in Item 1:

Robert Savino DO

11a.



has satisfactorily completed the requirements in Part 35, Section(s) and Paragraph(s) 35.934  
as documented in section(s) C of this form.

11b. Select one

meets the requirements in ☐ 35.50(e) ☐ 35.51(c) ☐ 35.390(b)(1)(ii)(G) ☐ 35.690(c) for

N/A

types of use, as documented in section(s) of this form.

11c.



has achieved a level of competency sufficient to independently operate a nuclear pharmacy (for 35.980); OR



has achieved a level of competency sufficient to function independently as an authorized  
user for I-131 cancer uses (or units); OR



has achieved a level of radiation safety knowledge sufficient to function independently as a Radiation Safety  
Officer for a medical use licensee; OR

☒ N/A

11d.



I am an Authorized Nuclear Pharmacist; OR



I am a Radiation Safety Officer; OR

I meet the requirements of 35.934 section(s) of 10 CFR Part 35

or equivalent Agreement State requirements to be a preceptor



or



for the following byproduct material uses (or units):

I-131 Therapy (Cancer)

A. Address

Danbury Hospital  
24 Hospital Avenue  
Danbury, CT 06810

B. Materials License Number

06-08544-01

C. NAME OF PRECEPTOR (print clearly)

Shiv Gupta, MD

D. SIGNATURE -- PRECEPTOR

X Shiv Gupta MD

E. DATE

1/19/2006

## MEDICAL USE TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

## 10. SUPERVISING INDIVIDUAL -- IDENTIFICATION AND QUALIFICATIONS

The training and experience indicated above was obtained under the supervision of (if more than one supervising individual is needed to meet requirements in 10 CFR Part 35, provide the following information for each):

A. Name of Supervisor

Joseph Belsky, MD

B. Supervisor is:

☒ Authorized User☐ Authorized Medical Physicist☐ Radiation Safety Officer☐ Authorized Nuclear Pharmacist

C. Supervisor meets requirements of Part 35, Section(s)

35.932 (Hyperthyroid)

for medical uses in Part 35, Section(s)

D. Address

Danbury Hospital  
24 Hospital Avenue  
Danbury, CT 06810

E. Materials License Number

06-08544-01

## PART II -- PRECEPTOR ATTESTATION

**Note:** This part must be completed by the individual's preceptor. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each. This part is not required to meet training requirements in 35.590 or Part 35, Subpart J (except 35.980).

I attest the individual named in Item 1: Robert Savino, DO

11a.



has satisfactorily completed the requirements in Part 35, Section(s) and Paragraph(s) 35.932, as documented in section(s) C of this form.

11b. Select one

meets the requirements in ☐ 35.50(e) ☐ 35.51(c) ☐ 35.390(b)(1)(ii)(G) ☐ 35.690(c) for

N/A types of use, as documented in section(s) of this form.

11c.

has achieved a level of competency sufficient to independently operate a nuclear pharmacy (for 35.980); **or**has achieved a level of competency sufficient to function independently as an authorized USER for I-131 hyperthyroid therapy uses (or units); **or**has achieved a level of radiation safety knowledge sufficient to function independently as a Radiation Safety Officer for a medical use licensee; **or**

N/A

11d.

I am an Authorized Nuclear Pharmacist; **or** ☐ I am a Radiation Safety Officer; **or**

I meet the requirements of 35.932 section(s) of 10 CFR Part 35

or equivalent Agreement State requirements to be a preceptor ☒ AU or ☐ AMP

for the following byproduct material uses (or units):

I-131 (Hyperthyroid Rx)

A. Address

Danbury Hospital  
24 Hospital Avenue  
Danbury, CT 06810

B. Materials License Number

06-08544-01

C. NAME OF PRECEPTOR (print clearly)

Joseph Belsky, MD

D. SIGNATURE -- PRECEPTOR

X Joseph L. Belsky, MD

E. DATE

1/19/06

## MEDICAL USE TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

## 10. SUPERVISING INDIVIDUAL -- IDENTIFICATION AND QUALIFICATIONS

The training and experience indicated above was obtained under the supervision of (if more than one supervising individual is needed to meet requirements in 10 CFR Part 35, provide the following information for each):

A. Name of Supervisor

William Johns, MD

B. Supervisor is:

☒ Authorized User☐ Authorized Medical Physicist☒ Radiation Safety Officer☐ Authorized Nuclear Pharmacist

C. Supervisor meets requirements of Part 35, Section(s)

35.934 (cancer therapy)

for medical uses in Part 35, Section(s)

D. Address

Danbury Hospital  
24 Hospital Avenue  
Danbury, CT 06810

E. Materials License Number

06-08544-01

## PART II -- PRECEPTOR ATTESTATION

Note: This part must be completed by the individual's preceptor. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each. This part is not required to meet training requirements in 35.590 or Part 35, Subpart J (except 35.980).

I attest the individual named in Item 1: Robert Savino DO

11a.



has satisfactorily completed the requirements in Part 35, Section(s) and Paragraph(s) 35.934,  
as documented in section(s) C of this form.

11b. Select one

meets the requirements in ☐ 35.50(e) ☐ 35.51(c) ☐ 35.390(b)(1)(ii)(G) ☐ 35.690(c) for

N/A

types of use, as documented in section(s) \_\_\_\_\_ of this form.

11c.



has achieved a level of competency sufficient to independently operate a nuclear pharmacy (for 35.980); OR



has achieved a level of competency sufficient to function independently as an authorized  
user for I131 cancer uses (or units); OR



has achieved a level of radiation safety knowledge sufficient to function independently as a Radiation Safety  
Officer for a medical use licensee; OR



N/A

11d.



I am an Authorized Nuclear Pharmacist; OR



I am a Radiation Safety Officer; OR

I meet the requirements of 35.934 section(s) of 10 CFR Part 35

or equivalent Agreement State requirements to be a preceptor



AU or



AMP

for the following byproduct material uses (or units):

I131 Therapy (cancer)

A. Address

Danbury Hospital  
24 Hospital Avenue  
Danbury, CT 06810

B. Materials License Number

06-08544-01

C. NAME OF PRECEPTOR (print clearly)

William D. Johns, MD

D. SIGNATURE -- PRECEPTOR

William D. Johns, MD

E. DATE

1/19/06

Robert Savino, D.O.

**DATE OF BIRTH:** [REDACTED]**PLACE OF BIRTH:** [REDACTED]**CITIZENSHIP:** [REDACTED]**EDUCATION:**

1984-1988 New York College of Osteopathic Medicine  
Old Westbury, NY; D.O.

1980-1984 New York University; New York, NY  
BA in Psychobiology; Minor in Spanish

**POST-GRADUATE TRAINING:**

1993-1994 Fellow, Division of Endocrinology  
Joslin Diabetes Center  
New England Deaconess Hospital  
Boston, MA

1992-1994 Clinical Fellow, Harvard Medical School  
Boston, MA

1992-1993 Fellow, Division of Endocrinology  
Lahey Clinic Medical Center  
Burlington, MA

1989-1992 Resident, Primary Care Internal Medicine  
Long Island Jewish Medical Center  
Albert Einstein College of Medicine  
New Hyde Park, NY

1988-1989 Rotating Internship  
Coney Island Hospital  
Brooklyn, NY

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

**ROBERT R. SAVINO, D.O.****LICENSES:**

1995	Connecticut - active
1992	Massachusetts - retired
1989	New York - active

**CERTIFICATION:**

2003	American Association of Clinical Endocrinology Certification in Nuclear Medicine
2002	Recertified Diplomate American Board of Internal Medicine Subspecialty in Endocrinology, Diabetes and Metabolism
2002	Recertified Diplomate American Board of Internal Medicine Specialty in Internal Medicine
2001	American Association of Clinical Endocrinology Certification in Thyroid Ultrasonography
1995	Diplomate American Board of Internal Medicine Subspecialty in Endocrinology, Diabetes and Metabolism
1992	Diplomate American Board of Internal Medicine Specialty in Internal Medicine
1989	Diplomate American Board of Osteopathic Medical Examiners

**ACADEMIC APPOINTMENTS:**

2001- present	Adjunct Assistant Professor of Medicine New York Medical College Valhalla, NY
---------------	---



**ROBERT R. SAVINO, D.O.**

1998-present Clinical Instructor in Medicine  
Yale University School of Medicine  
New Haven, CT

1995 Instructor in Medicine  
Harvard Medical School  
Boston, MA

***HOSPITAL APPOINTMENTS:***

1997-present Chief, Department of Endocrinology and Metabolism  
Danbury Hospital  
Danbury, CT

1996-present Medical Director, Diabetes Management Program  
Endocrine and Diabetes Center of Western Connecticut  
Danbury, CT

1996-present Attending Physician  
Danbury Hospital  
Danbury, CT

1994-1995 Associate Clinical Staff Member  
Joslin Diabetes Center  
Boston, MA

1994-1995 Clinical Staff Member  
New England Deaconess Hospital  
Boston, MA

1994-1995 Clinical Staff Member  
Lahey Clinic  
Burlington, MA

1994-1995 Assistant Medical Director  
Joslin-Lahey Diabetes and Endocrine Center  
Peabody, MA

**ROBERT R. SAVINO, D.O.*****HONORS AND AWARDS:***

- |            |   |
|------------|---|
| 2002       | <u>US NEWS AND WORLD REPORT</u> ranked Danbury Hospital among Top Fifty Hospitals in U.S. for treatment of Hormonal Disorders |
| 2002, 2001 | Outstanding Contributor to Third-Year Medicine Clerkships<br>New York Medical College   |
| 2001       | Nominated for Magida Award  |
| 1999 -2000 | Outstanding Participation in Housestaff Education<br>Danbury Hospital<br>Danbury, CT  |
| 1996, 1997 | Teaching Attending of the Year<br>Danbury Hospital<br>Danbury, CT   |
| 192        | Resident of the Year<br>Long Island Jewish Medical Center<br>New Hyde Park, NY  |
| 1990       | Mayor's Recognition Award<br>Avianca Airline Crash Rescue<br>Glen Cove, NY  |
| 1985       | Honors in Pathology<br>New York College of Osteopathic Medicine<br>Old Westbury, NY   |
| 1983, 1984 | Dean's List<br>New York University<br>New York, NY  |
| 1980       | Mayor's Recognition Award<br>Glen Cove Ambulance<br>Glen Cove, NY   |

## **ROBERT R. SAVINO, D.O.**

### ***PROFESSIONAL SOCIETIES:***

- 2003-2004 President, Connecticut State Endocrine Society
- 1997-present Member, Connecticut State Endocrine Society
- 1997-present Fellow, American College of Physicians
- 1997-present Fellow, American Association of Clinical Endocrinologists
- 1996-present Member, The Endocrine Society
- 1993-present American Diabetes Association
- 1993-1997 Member, American College of Physicians
- 1992-present Member, American Association of Clinical Endocrinologists

### ***PRINCIPAL CLINICAL RESPONSIBILITIES:***

- 1994-1995 Committee to Revise Joslin Diabetes Center Education Materials, Physician Reviewer

### ***TEACHING EXPERIENCE:***

- 2003-present Preceptor, third-year medical students, New York College of Osteopathic Medicine
- 2002-present Physician Reviewer for American Board of Internal Medicine Certifying Examination questions in Endocrinology
- 2001-present Endocrinology teaching, third-year New York Medical College students, Internal Medicine Clerkship
- 1996-present Endocrine teaching rotations and lecture series for Internal Medicine Residents and Students  
Danbury Hospital  
Danbury, CT

**ROBERT R. SAVINO, D.O.**

- 1994, 1996 Physician Reviewer for American Board of Internal Medicine  
Certifying Examination questions in Internal Medicine
- 1994-1995 Preceptor, Second and Fourth-year Students  
Harvard Medical School
- 1994 Harvard Medical School  
Department of Continuing Medical Education —  
"Management of Diabetes in the Post-DCCT Era"  
Workshop given on intensive insulin therapy

***CLINICAL RESEARCH:***

- 1993 Investigator, Research Study Report:  
Evaluation of the Application of ADA Standards of Care for the  
Treatment of Diabetes. Sponsored by the Endocrine Fellows  
Foundation

***PUBLICATIONS:***

- 1994 Stolar MW, Endocrine Fellows Foundation Study Group:  
Clinical Management of the NIDDM Patient:  
Impact of the American Diabetes Association Practice Guidelines,  
1985-1993. DIABETES CARE 18:701-707, 1985

***COMMUNITY ACTIVITIES:***

- 2000-present Coach — Ridgefield Little League
- 1996-present Diabetes and Endocrine Education Lectures for various community  
groups
- 1990-1995 Medical Officer  
Glen Cove Harbor Patrol  
Glen Cove, NY

***REFERENCES UPON REQUEST***

203 438 4926 P.01

# American College of Endocrinology

Certifies that

**Robert Savino, MD**

**Successfully Completed The  
"Radiological Physics: AACE Nuclear Medicine Course"**

**October 11-18, 2003**

The American Association of Clinical Endocrinologists is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The American Association of Clinical Endocrinologists designates this educational activity for a maximum of 80 category 1 credits toward the AMA Physician's Recognition Award.  
Each physician should claim only those credits that he/she actually spent in the activity.



*Philip Levy*  
ACE President  
Philip Levy, MD, FACE

*H. Jack Baskin*  
Program Chairman  
H. Jack Baskin, MD, FACE





# American Association of Clinical Endocrinologists

1000 RIVERSIDE AVENUE • SUITE 205 • JACKSONVILLE, FLORIDA 32204 • PHONE: (904) 353-7878 • FAX: (904) 353-8185 • <http://www.aace.com>

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Jellrey R. Garber, MD, FACE  
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Yehuda Handelsman, MD, FACP, FACE  
Torrance, CA

Kenneth S. Hershey, MD, FACE  
New Hyde Park, NY

Paul S. Jellinger, MD, FACE  
Hollywood, FL

John S. Kotera, MD, FACS, FACE  
Abington, PA

Sheldon S. Stoffer, MD, FACE  
Farmington Hills, MI

### TERMS EXPIRE 2006

Lawrence Mondo, MD  
New Orleans, LA

Robert F. Sagel, MD, MACE  
Houston, TX

Ellie S. Nageshi, MD, FACP, FACE  
Inglewood, CA

S. Selhu K. Reddy, MD, FACE  
Cleveland, OH

Joseph J. Torre, MD, FACP, FACE  
Buffalo, NY

Milton K. Wong, MD, FACE  
Las Vegas, NV

### FELLOW-IN-TRAINING

Syed Abbas Raza, MD  
Madison, WI

### EMERITUS 2004

Yank D. Coble, Jr., MD, MACE  
Jacksonville, FL

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Scottsdale, AZ

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Rochester, MN  
Editor-in-Chief, Endocrine Practice

Donald C. Jones  
Chief Executive Officer

December 8, 2003

Paul Iannini, MD, Chair  
Department of Medicine  
Danbury Hospital  
27 Hospital Avenue  
Danbury, CT 06810

Dear Dr. Iannini:

The American Association of Clinical Endocrinologists (AACE) is a national medical specialty association comprised of over 4,500 clinical endocrinologists in the United States and 72 other countries. Founded in 1991, AACE is dedicated to providing optimal clinical endocrine care for the large number of patients with endocrine and metabolic disorders. Over 200 physicians have taken Radiation Physics for Endocrinologists, since we first offered it in 1997, which is a significant contribution toward training and improved patient management in the field of endocrinology.

I am writing to you on behalf of Dr. Robert Savino in an effort to clarify criteria for competency for nuclear medicine certification and administration used in the AACE Radiation Physics for Endocrinologists Course. I am submitting to you a copy of the Course syllabus.

Upon completion of the AACE Nuclear Medicine Course, the attendee has the ability to:

1. Calculate the remaining radioactive material from a known sample after a known time.
2. Perform the daily tasks required to stay in compliance with their radioactive material license, to include: area surveys, checking in packages of radioactive materials, performing dose calibrator consistency checks, etc.
3. Be aware of the requirement of a Quality Management Program and understand the record keeping requirements.
4. Assay and record properly a patient dose of radioactive material.
5. Properly use a survey meter to perform package and area wipe tests.
6. Convert from cpm to dmp.
7. Calculate dose of I-131 for hyperthyroidism.

The 80-hour course satisfies the didactic training requirement of the U.S. Nuclear Regulatory Commission for an endocrinologist to be licensed as an authorized user of radioiodine for treatment of patients with hyperthyroidism. The curriculum consists of:

- 25 hours of radiation physics and instrumentation
- 25 hours of radiation protection
- 10 hours of radiation mathematics
- 20 hours of radiation biology

If we may be of any additional assistance, please do not hesitate to contact me directly at 904-353-7878, extension 29.

Sincerely,

Victoria R. Jeune  
Director of Legislation and Socioeconomics

cc: Donald C. Jones, CEO  
Jay W. Millson, Deputy CEO

*The Voice of Clinical Endocrinology*

# Course Syllabus

## Radiation Physics for Endocrinologists

### DAY ONE

**Saturday, October 11, 2003**

7:00 am	Registration
7:15	Introduction AACE Representative
7:30	Course Information Greg Wegst, M.A
8:00	Matter and Atomic Structure Audrey Wegst, PhD
8:20	Alpha, Beta, Gamma Emissions, Internal Conversion Audrey Wegst, PhD
8:45	Coffee Break
9:00	Logarithmic Review Larry Cook, PhD
10:00	Radioactivity and Decay Audrey Wegst, PhD
11:00	Decay Schemes: I-131, I-123, I-125, Tc-99m Audrey Wegst, PhD
11:30	Units of Measurement Jay Spicer, M.S.
12:00	Lunch--Radiation Safety Video and Discussion
1:00 pm	Production of Radioisotopes Jay Spicer, M.S.
02:00	Specific Activity Jay Spicer, M.S.
03:30	END

## DAY TWO

**Sunday, October 12, 2003**

7:30am	Quiz
7:45	Interaction of Particles and Photons with Matter Audrey Wegst, PhD
9:30	Coffee Break
9:45	Units of Radiation Dose Ben Friesen, PhD
11:30	Radiation Detectors: Gas filled detectors Ionization Chambers Dosimeters Survey Meters Dose Calibrators Accuracy Geometry Linearity Consistency GM Counters Wipe Test Counters Survey Meters Audrey Wegst, PhD
12:00	Lunch—Radiation Safety Video and Discussion
1:00	Radiation Detectors (continued)
2:15	Counting Statistics Larry Cook, PhD
3:45	Coffee Break
4:00	Radioactive Sources, Standards Audrey Wegst, PhD
4:30	Counting Efficiency, Minimum Detectable Activity, Background Larry Cook, PhD
5:30	Demonstration of: Counting Efficiency Background Determination
6:30	END



**DAY THREE**

8:00am Quiz  
8:20 Demonstration in the Use of Survey Meters  
9:15 Thyroid Physiology and Imaging  
Woody Sistruck, M.D.  
10:00 Coffee Break  
12:00pm Lunch–Radiation Safety Video and Discussion  
1:00 Scintillation Detectors  
Audrey Wegst, Ph.D.  
2:15 Pulse Height Analysis  
Audrey Wegst, Ph.D.  
3:00 Coffee Break  
3:15 Instruments Using Scintillation Detectors  
Thyroid Probes  
Well Counters  
Survey Meters  
Gamma Cameras  
P.E.T.  
Audrey Wegst, PhD  
5:30 Demonstration:  
Dose Calibrator Tests  
6:30 END

**Monday, October 13, 2003****DAY FOUR**

8:00 am Review  
8:30 Quiz  
9:15 Radiation Biology I  
Ben Friesen, PhD  
10:00 Coffee Break  
11:00 Thyroid Uptakes  
Joel McAllister, MS  
12:00 pm Lunch–Radiation Safety Video and Discussion  
1:00 Thyroid Uptake Pitfalls  
Audrey Wegst, Phd  
2:00 Demonstrations and Lab  
Well Counter  
Pulse Height Spectra  
Thyroid Uptake  
Thyroid Assay  
Sample Counting  
ALARA  
6:00 END

**Tuesday, October 14, 2003**

**DAY FIVE****Wednesday, October 15, 2003**

8:00 am	Review
8:30	Quiz
9:15	Radiation Biology II Ben Friesen, PhD
10:00	Coffee Break
10:15	Radiation Biology III Ben Friesen, PhD
12:00 pm	Lunch–Radiation Safety Video and Discussion
1:00	Radiation Dosimetry: External Internal Ben Friesen, PhD
2:00	Protection from External Sources of Radiation: Time, Distance, Shielding Audrey Wegst, Ph.D.
3:00	Coffee Break
03:15	Required Monitoring for External Radiation Airborne, Surface and Skin Audrey Wegst, PhD
3:45	Protection from Internal Contamination Audrey Wegst, PhD Monitoring for Internal Contamination Thyroid Bioassays Audrey Wegst, PhD Demonstration of Monitoring Area Surveys Wipe Test Surveys Spill Procedures
6:00	END

**DAY SIX****Thursday, October 16, 2003**

8:00 am	Quiz
8:30	Tracer Kinetics Jay Spicer, M.S.
9:30	Thyroid Treatment and Calculation of Dose Jay Spicer, M.S.
10:15	Coffee Break
10:30	Measurement of Dose and Proper Records Audrey Wegst, PhD
11:30	Demonstration of Proper Administration of Dose
12:00 pm	Lunch–Radiation Safety Video and Discussion
1:00	Example Problems Larry Cook, PhD
2:00	Regulatory Agencies and Agreement States Audrey Wegst, PhD
3:00	Coffee Break
3:15	Review of Iodine Chemistry

Jay Spicer, M.S.  
Radiopharmaceuticals in Nuclear Medicine

5:15 Jay Spicer, M.S.  
Demonstrations  
Radioactive Package Receipt and Return

6:00 END

**DAY SEVEN**

**Friday, October 17, 2003**

8:00 am Quiz  
8:30 Obtaining a Radioactive Materials License  
Joel McAllister, MS  
9:30 Review of NRC Regulations  
Audrey Wegst, PhD  
10:00 Coffee Break  
10:15 Personnel Monitoring  
Member of the Public Dose Determination  
Waste Disposal  
Radiation Safety Committee  
Radiation Safety Officer  
Audrey Wegst, PhD  
12:00 pm Lunch–Radiation Safety Video and Discussion  
1:00 Laboratory Monitoring.  
Lecture and Demonstration  
3:00 Coffee Break  
3:15 Written Directives (Appendix S, “Consolidated Guide”)  
Patient Release, NRC and Example State  
Joel McAllister, MS  
5:30 Package Receipt and Monitoring  
Audrey Wegst, PhD  
6:00 END

**DAY EIGHT**

**Saturday, October 18, 2003**

8:00 am Review and Questions  
8:30 Review of Essential Records for License Compliance  
Audrey Wegst, PhD  
10:00 Coffee Break  
10:15 Regulations-Variations from State to State  
Audrey Wegst, PhD  
12:00 pm Lunch–Radiation Safety Video and Discussion  
1:00 Tour of Nuclear Medicine Department  
University of Kansas Medical Center  
Jay Spicer, MS  
4:00 Coffee Break  
4:15 FINAL EXAM  
6:00 END OF COURSE

THE  
AMERICAN BOARD OF INTERNAL MEDICINE  
INCORPORATED 1936

ATTESTS THAT

**Robert Rocco Savino**

HAS MET THE REQUIREMENTS OF THIS BOARD AND IS HEREBY  
RECERTIFIED FOR THE PERIOD 2005 THROUGH 2015

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*Ralph A. Horwitz*  
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AMERICAN BOARD OF INTERNAL MEDICINE

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AMERICAN BOARD OF INTERNAL MEDICINE

*James R. Patterson*  
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AMERICAN BOARD OF INTERNAL MEDICINE

*Chase*  
PRESIDENT  
AMERICAN BOARD OF INTERNAL MEDICINE

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CHAIR

*David S. Cooper*

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*Carolyn B. Beck*

*Robert D. Edel*

*Shalender Bhasin*

*Joel S. Finkelstein*

# THE AMERICAN BOARD OF INTERNAL MEDICINE

INCORPORATED 1936

ATTESTS THAT

**Robert Rocco Savino**

HAS MET THE REQUIREMENTS OF THIS BOARD AND IS HEREBY

CERTIFIED FOR THE PERIOD 2002 THROUGH 2012

AS A DIPLOMATE IN

**INTERNAL MEDICINE**

*Douglas P. Zipes*  
CHAIR

*Ralph Horwitz*  
CHAIR-ELECT

*James R. Patterson*  
SECRETARY-TREASURER

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PRESIDENT

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*Del Pomeroy*

*Holly J. Humphrey*

*Oaniel S. Klein*

*Joseph L. Lacy*

*Ernest L. Maggioni*

*Steven R. Mige*

*Harold R. ...*

*W. Michael Silver*

*Veronique Sherwood*

*Donald C. Sherson*

*Beverly Woo*

*Kenn K. ...*

NUMBER 141533

2002

0007979 FP \*\*PRSR T1 0 1364 06877  
ROBERT R. SAVINO DO

Dear Licensed/Certified Professional,  
Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health  
P.O. Box 340308  
M.S.#12MQA  
Hartford, CT 06134-0308

(860) 509-7603  
or  
(860) 509-7596

Sincerely,

*J Robert Galvin M.D., M.P.H.*  
J. ROBERT GALVIN, MD, MPH, COMMISSIONER  
DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

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CURRENT THROUGH  
12/31/06  
VALIDATION NO.  
03-270899

SIGNATURE

*J Robert Galvin M.D., M.P.H.*  
COMMISSIONER

EMPLOYER'S COPY

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NAME

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LICENSE NO.  
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PROFESSION

CURRENT THROU  
12/31/06

PHYSICIAN/SURGEON

SIGNATURE

*J Robert Galvin M.D., M.P.H.*  
COMMISSIONER

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NAME

ROBERT R. SAVINO DO

VALIDATION NO.  
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000429  
PROFESSION

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12/31/06

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SIGNATURE

*J Robert Galvin M.D., M.P.H.*  
COMMISSIONER

PERSONAL INFORMATION WAS REMOVED  
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**MEDICAL USE TRAINING AND EXPERIENCE  
AND PRECEPTOR ATTESTATION**APPROVED BY OMB: NO. 3150-0120  
EXPIRES: 10/31/2008**PART I -- TRAINING AND EXPERIENCE**

**Note:** Descriptions of training and experience must contain sufficient detail to match the training and experience criteria in the applicable regulation (10 CFR Part 35)

1. Name of Individual, Proposed Authorization (e.g., Radiation Safety Officer), and Applicable Training Requirements (e.g., 10 CFR 35.50)

Susan Mari, MD 10 CFR 35.100 / 35.200  
Authorized User - Nuclear Cardiology Diagnostic Imaging

2. For Physicians, Podiatrists, Dentists, Pharmacists -- State or Territory Where Licensed

CT, NY - Medical License (no prior NRC License)

**3. CERTIFICATION**

- a. Provide a copy of the board certification. (Stop here if applying under 10 CFR Part 35, Subpart J or 35.590(a); continue if applying under other subparts.) Board Certified - American Society of Nuclear Cardiology
- b. Provide documentation in appropriate items 4 through 10 of training or clinical case work required by 35.50(e); 35.51(c); 35.290(c)(1)(ii)(G) for AU seeking 35.200 authorization; 35.390(b)(1)(ii)(G); 35.396(d)(1) and 35.396(d)(2); 35.590(c); or 35.690(c).

- c. Provide completed Part II Preceptor Attestation, Items 11a through 11d.

Stop here after completing items 3a, 3b, and 3c when using board certification to meet 10 CFR Part 35 training and experience requirements.

**4. INDIVIDUALS IDENTIFIED ON A LICENSE OR PERMIT AS RADIATION SAFETY OFFICERS (RSO),  
AUTHORIZED USERS (AU), AUTHORIZED MEDICAL PHYSICISTS (AMP), OR  
AUTHORIZED NUCLEAR PHARMACISTS (ANP) SEEKING ADDITIONAL AUTHORIZATIONS**

- a. Provide a copy of the license or broadscope permit listing the current authorization and (b) or (c)
- b. Complete items 6c (and 10 when training is provided by an RSO, AMP, ANP, or AU) and preceptor items 11b through 11d to meet requirements for: RSO in 35.50(c)(2) or 35.50(e); or AU in 35.290(c)(1)(ii)(G) or 35.390(b)(1)(ii)(G) or 35.590(c) or 35.690(c); or AMP under 35.51(c).
- c. Complete items 5, 6a, 6b, 10, and Preceptor items 11a through 11d to meet AU requirements in 35.396(a).

**5. DIDACTIC OR CLASSROOM AND LABORATORY TRAINING (optional for Medical Physicists)**

Description of Training	Location	Clock Hours	Dates of Training
Radiation Physics and Instrumentation	Board Certified Nuclear Cardiology		
Radiation Protection			
Mathematics Pertaining to the Use and Measurement of Radioactivity			
Radiation Biology			
Chemistry of Byproduct Material for Medical Use			
OTHER			

*Susan Marie, MD*

**MEDICAL USE TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)**

**6a. WORK OR PRACTICAL EXPERIENCE WITH RADIATION**

Description of Experience	Name of Supervising Individual(s)	Location and Corresponding Materials License Number	Dates and/or Clock Hours of Experience
<i>Board Certified</i>			

**6b. SUPERVISED CLINICAL CASE EXPERIENCE (describe experience elements in 6a)**


Radionuclide	Type of Use	No. of Cases Involving Personal Participation	Name of Supervising Individual	Location and Corresponding Materials License Number	Dates and/or Clock Hours of Experience



**Susan Mani, M.D.**  
Danbury Office of Physician Services, P.C.  
Department of Cardiology.  
The Regional Heart & Vascular Center at Danbury Hospital  
24 Hospital Avenue  
Danbury, CT 06810  
(203) 797-7155

---

## TRAINING

06/2001 — 6/2005 Fellowship in Cardiology, Division of Cardiology  
New York Presbyterian Hospital, New York NY  
Level II Echocardiography Eligible  
Nuclear License Eligible *certified 9/05*   
2002--2003 Assistant Chief of Service, Osler Medical Service J  
Johns Hopkins Hospital, Baltimore MD  
1998--2001 Internship and Residency in Internal Medicine  
Johns Hopkins Hospital, Baltimore MD

## EDUCATION

1994--1998 Doctor of Medicine, May 1998  
Johns Hopkins University School of Medicine  
1991-- 1994 Bachelor of Science in Pre-Medicine, May 1994 Pennsylvania  
State University

## HONORS

2004 Society of Geriatric Cardiology 10<sup>th</sup> Annual Scientific Session  
Awarded in Poster Competition Physician-in-Training Category  
2004 Annual Southworth Research Competition  
Honorable Mention

## ABSTRACTS/PUBLICATIONS

Mani S, Maurer MS, Wajahat R, El-Khoury Rumbarger L. Impact of blood volume and its components on ventricular remodeling in patients with heart failure and normal ejection fraction.  
*Heart Failure Society of America, 2004*

Mani S, Maurer MS, Wajahat R, El-I:houry Rumbarger, King D, Burkhoff D. Anemia in patients with heart failure and preserved ejection fraction.

**Susan Mani, M.D.**  
Danbury Office of Physician Services, P.C.  
Department of Cardiology.  
The Regional Heart & Vascular Center at Danbury Hospital  
24 Hospital Avenue  
Danbury, CT 06810  
(203) 797-7155

---

*Society of Geriatric Cardiology, 2004*

Nilsson K, Mani S. Cases from the Osler Medical Service at Johns Hopkins University. *Am J Med* 2004; 116(1): 54-6

Dharmadhikari A, Sukkar A, Mani S. Cases from the Osler Medical Service at Johns Hopkins University *Am J Med* 2003; 114(9): 765-7.

Thompson Ferguson T, Mani S. Cases from the Osler Medical Service at Johns Hopkins University. *Am J Med* 2003; 114(4): 336-8.

Mani S, Becker L, Blumenthal R, Yook R, Becker D. Exaggerated blood pressure response to exercise in a normotensive, asymptomatic population is associated with premature vascular disease. *American Heart Association, 2000*

#### **BOARD CERTIFICATION**

2001-2001                      Diplomate, American Board of Internal Medicine

#### **LICENSE**

2001-Present                      New York State License # 22980

#### **ACADEMIC APPOINTMENTS**

2001-2003                      Assistant in Clinical Medicine , Columbia University, New York NY

2002-2003                      Instructor in Clinical Medicine, Johns Hopkins Hospital

#### **HOSPITAL APPOINTMENTS**

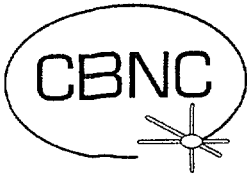
2001-Present                      Post-Doctoral Clinical Fellow  
New York Presbyterian Hospital, New York, NY

#### **PROFESSIONAL SOCIETIES**

American Heart Association  
American College of Cardiology

#### **REFERENCES**

Provided upon request



## Certification Board of Nuclear Cardiology

19562 Club House Road • Montgomery Village, MD 20886  
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December 6, 2005

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Dear Dr. Mani:

We are pleased to inform you that the Board of Directors of the Certification Board of Nuclear Cardiology (CBNC) has determined that your score on the written examination of October 23, 2005 meets the standards the Board has established for certification in nuclear cardiology. Congratulations on your achievement!

A passing score of 125 questions correct was determined by an independent panel of peers, representing the disciplines involved in the practice of nuclear cardiology, drawn from both private practice and academia.

The number of questions you answered correctly was 138. The attached chart shows the number of correct answers you had for each of the content areas. Also enclosed is a press release which you may wish to use to announce your successful completion of the 2005 exam.

As you may recall, the application form that you completed carried the wording "List name as you wish it to appear on certificate if you successfully pass the exam." Therefore, we will honor your request. We anticipate that the hand calligraphed certificates will be mailed by February 1, 2006.

It is important for future mailings that you keep the CBNC headquarters office informed of any address changes and so that the information in our online verification database is correct. The names of the successful 2005 examinees will be posted on CBNC's Website by January 1, 2006.

On behalf of the Board of Directors, I wish to thank you for your participation in the CBNC examination.

Sincerely,

Manuel D. Cerqueira, M.D.  
President

Enclosures

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ID No. 2005768



January 3, 2006

Candidate Number: 209654

Dr. Susan Mani  
[REDACTED]

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A Member Board of the  
American Board of  
Medical Specialties (ABMS)

Dear Dr. Mani:

Congratulations! The Board is pleased to inform you that you passed the Fall 2005 Certification Examination in Cardiovascular Disease and are now certified as a Diplomate in Cardiovascular Disease. Your certification will remain valid through the year 2015.

The following information regarding your certification is attached:

- Score Report
- Description of the Score Report
- Form to order your Certificate(s)

The Board's Web site <[www.abim.org](http://www.abim.org)> includes a page to verify certification status and information about the ABIM and its activities. In 10 days, the ABIM verification of certification web page will be updated to indicate that you are certified.

To ensure that you receive timely information from the Board about maintaining your certification, please notify us of any changes in contact information, including an e-mail address. You can update contact information online through the ABIM Web site.

Your name will be provided to the American Board of Medical Specialties for listing in *The Official ABMS Directory of Board Certified Medical Specialists*. You will receive a form from the ABMS, the publisher of the directory, soliciting the information to appear in your listing.

To maintain your certification beyond its 10-year limit you must complete the ABIM Maintenance of Certification program, Continuous Professional Development (CPD). Details about the CPD program can be found on the ABIM website, and the Board will inform you by mail about your CPD status annually.

The Board wishes you continued success.

Most sincerely,

F. Daniel Duffy, M.D.

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# The Johns Hopkins University

*Upon the recommendation of the Faculty of*

THIS IS TRUE AND EXACT COPY OF THE  
DIPLOMA AWARDED TO SUSAN MANI ON  
MAY 21, 1998.

**The School of Medicine**

*has conferred upon*

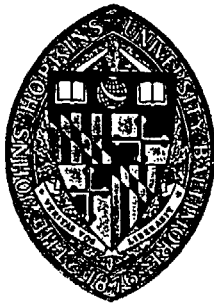
**Susan Mani**

*the degree of*

**Doctor of Medicine**

*with all the rights, honors and privileges appertaining thereto.*

*Given under the seal of the University at Baltimore, Maryland  
on May twenty-first, nineteen hundred and ninety-eight.*



*Stuart D. Mink Jr.*

*Dean*

*William R. Brody*

*President*

*Anthony M. Williams*

*Chairman of the Board of Trustees*



# STATE OF CONNECTICUT

## DEPARTMENT OF PUBLIC HEALTH

April 1, 2005

Susan Mani M.D.

Dear Licensee:

I am pleased to inform you that you have met all requirements for licensure as a **Physician/Surgeon** in Connecticut. Your license number is **043275** and is effective as of the date of this letter. Your formal license will be mailed to you in the near future. Your name will appear on your license as shown above unless you notify us otherwise.

It is your responsibility to notify the Department of Public Health, Office of Practitioner Licensing and Certification, in writing, of any changes of name, residence address or business address, either within or outside Connecticut. Such notification to the Department of Public Health is required by law; failure to provide same may jeopardize the status of your license.

Please note that your license must be renewed annually during your month of birth. Renewal will be required in the first birth month which immediately follows the issuance of licensure. Failure to renew your license within ninety (90) days of the due date will result in your license becoming void. In that event, re-licensure would require a new application to the department and a review of all credentials to determine whether you satisfy current licensing requirements.

Should you have any questions or concerns regarding the renewal of your license, please contact the renewal staff at (860) 509-7603.

Respectfully,

**Stephen B. Carragher**  
Health Program Supervisor  
Office of Practitioner Licensing and Certification

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SBC:MM



Phone: (860) 509-7603

Telephone Device for the Deaf (860) 509-7191

410 Capitol Avenue - MS # 12MQA

P.O. Box 340308 Hartford, CT 06134

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Website for licensure verification <http://www.ct-clc.com>



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## Health Care or Environmental Health Professional's License Status

This site is part of **CT-clic.com**, the **Connecticut Licensing Info Center**, that links to all YOUR State licensing and registration needs.

Note: Requests for copies of documents related to past disciplinary action for professions other than physicians may be emailed as such documents are not currently available via this web site. Please include your name and telephone number on any request.

**License Type:** Physicians & Surgeons  
**License Number:** 043275  
**Name:** MANI, SUSAN  
**Expiration Date:** 9/30/2006  
**Granted Date:** 4/1/2005  
**License Name:** Susan Mani M.D.  
**License Status:** Current  
**Disciplinary Action:** None

### Questions ??

E-mail [webmaster.dph@po.state.ct.us](mailto:webmaster.dph@po.state.ct.us) or call (860) 509-7603  
[Return to DPH Licensure/Renewal Page](#)

For Business Registry Questions? Contact **Smart State** or call 1-800-392-2122.

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**REGISTRATION CERTIFICATE**

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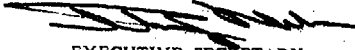
License Number: 222980-1

Certificate Number: 5362103

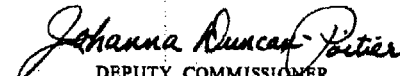
MANI SUSAN  
[REDACTED]

is registered to practice in New York State through 08/31/2007 as a(n)  
**PHYSICIAN**

LICENSEE/REGISTRANT

  
EXECUTIVE SECRETARY

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

2/2/2006, and to inform you that the initial processing which includes an administrative review has been performed.

☒ Amend. 06-08544-01  
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

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** 138427.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.