

Cardiac Care Consultants, P.C.
9116 Columbia Avenue
Munster, Indiana 46321

August 12, 2009

U.S. Nuclear Regulatory Commission
Region III
NRC Materials Licensing Branch
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4351

Re: License #13-32585-01

To Whom It May Concern:

We request amendment to our radioactive materials license #13-32585-01 to make the following changes:

1. Change in facility location:

Our nuclear medicine facility will be moving to a new location, at 1730 45th Street, Munster, IN 46321. A sketch of the new area is attached for your review. We confirm a closeout survey of our current facility will be completed after the move and will be forwarded to you for removing this address from our license. Radioactive material will be stored in the room designated Hot Lab. This room will remain locked to prevent unauthorized access when authorized persons are not physically present.

2. Please correct two spellings on the current license.

- (a) The correct spelling of my first name is Shashi, not Sashi.
- (b) Anuradha Divakaruni, not Divarkaruni

3. Please change the Radiation Safety Officer from Michael Zimmer, Ph.D. to Anuradha Divakaruni, M.D.

Dr. Anuradha Divakaruni is already listed on our radioactive materials license as an authorized user, and training and experience information was previously supplied to your office. Attached is attestation that Dr. Divakaruni has achieved a level of radiation safety knowledge sufficient to function independently as a Radiation Safety Officer for this license.

Please contact us if additional information is needed.

Thank you.

Sincerely,


Shashi Divakaruni, M.D., Owner

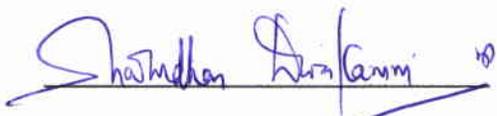
RECEIVED AUG 21 2009

Delegation of Authority to Radiation Safety Officer

Authority, Duties and Responsibilities of Radiation Safety Officer

You, Anuradha Divakaruni, M.D. have been appointed Radiation Safety Officer and are responsible for ensuring the safe use of radiation. You are responsible for managing the radiation protection program, identifying radiation safety problems, initiating recommending or providing corrective actions, stopping unsafe operations, and verifying implementation of corrective actions.

You have been delegated the authority needed to meet those responsibilities, including prohibiting the use of radioactive materials by employees who do not meet the necessary requirements and shutting down operations where justified by radiation safety. You are to notify management if staff do not cooperate and do not address radiation safety issues. In addition, you are free to raise issues with the U.S. Nuclear Regulatory Commission at anytime.

A handwritten signature in blue ink, reading "Shashi Divakaruni" with a small "10" to the right. The signature is written over a horizontal line.

Signature of Management Representative, Shashi Divakaruni, M.D.

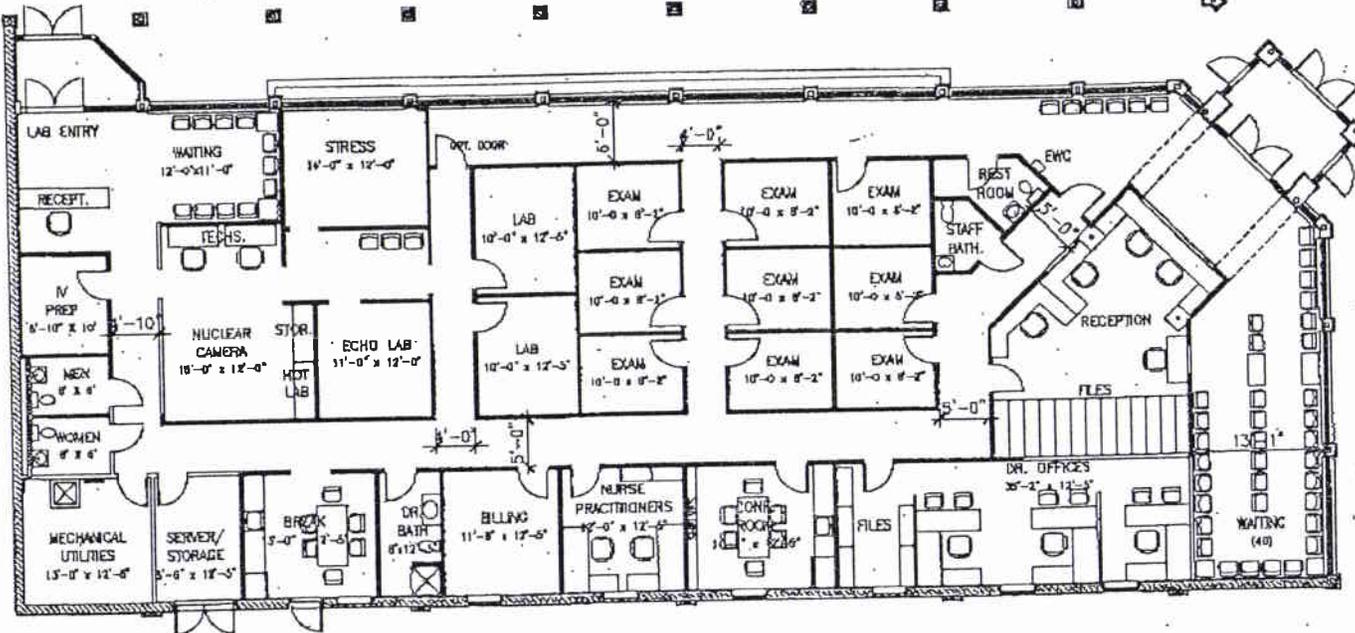
A handwritten signature in black ink, reading "Anuradha Divakaruni". The signature is written over a horizontal line.

Signature of Radiation Safety Officer, Anuradha Divakaruni, M.D.

PARKING LOT

MY ENTRANCE

Field



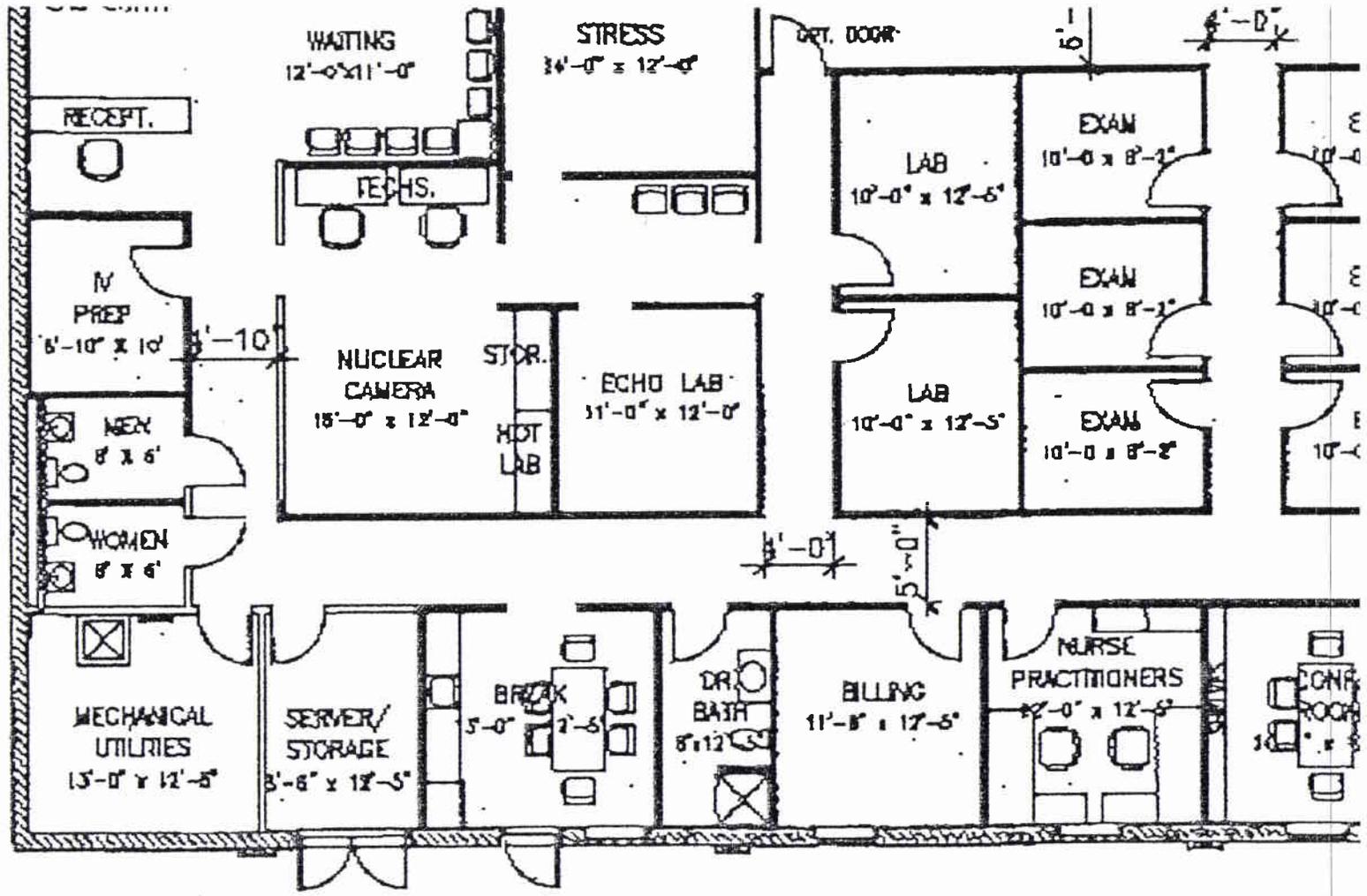
1 PRELIMINARY FLOOR PLAN
3/8" = 1'-0"

Empty Field

CARDIAC CARE CONSULTANTS - 07.10.2009
1700 45TH STREET
MUNSTER, IN

GEORGIU & ASSOCIATES ARCHITECTS
ST. JOHN, IN

Field



1 PRELIMINARY FLOOR PLAN
1/32" = 1'-0"

Empty Field

NRC FORM 313A (RSO) (2-2007)	U.S. NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB: NO. 3150-0120 EXPIRES: 10/31/2008
RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION [10 CFR 35.50]		

Name of Proposed Radiation Safety Officer
Anuradha Divakaruni, M.D.

Requested Authorization(s) *The license authorizes the following medical uses (check all that apply):*

35.100
 35.200
 35.300
 35.400
 35.500
 35.600 (remote afterloader)

35.600 (teletherapy)
 35.600 (gamma stereotactic radiosurgery)
 35.1000 (_____)

PART I – TRAINING AND EXPERIENCE
(Select one of the four methods below)

*Training and Experience, including board certification, must have been obtained within the 7 years preceding the date of application or the individual must have obtained related continuing education and experience since the required training and experience was completed. Provide dates, duration, and description of continuing education and experience related to the uses checked above.

- 1. Board Certification**
- a. Provide a copy of the board certification.
 - b. Use Table 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.
 - c. Skip to and complete Part II Preceptor Attestation.

OR

- 2. Current Radiation Safety Officer Seeking Authorization to Be Recognized as a Radiation Safety Officer for the Additional Medical Uses Checked Above**
- a. Use the table in section 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for the additional types of medical use for which recognition as RSO is sought.
 - b. Skip to and complete Part II Preceptor Attestation.

OR

- 3. Structured Educational Program for Proposed Radiation Safety Officer**
- a. Classroom and Laboratory Training

Description of Training	Location of Training	Clock Hours	Dates of Training*
Radiation physics and instrumentation			
Radiation protection			
Mathematics pertaining to the use and measurement of radioactivity			
Radiation biology			
Radiation dosimetry			
Total Hours of Training:			

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

3. Structured Educational Program for Proposed Radiation Safety Officer (continued)

b. Supervised Radiation Safety Experience

(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Description of Experience	Location of Training/ License or Permit Number of Facility	Dates of Training*
Shipping, receiving, and performing related radiation surveys		
Using and performing checks for proper operation of instruments used to determine the activity of dosages, survey meters, and instruments used to measure radionuclides		
Securing and controlling byproduct material		
Using administrative controls to avoid mistakes in administration of byproduct material		
Using procedures to prevent or minimize radioactive contamination and using proper decontamination procedures		
Using emergency procedures to control byproduct material		
Disposing of byproduct material		
Licensed Material Used (e.g., 35.100, 35.200, etc.)+ _____ _____ _____ _____		

* Choose all applicable sections of 10 CFR Part 35 to describe radioisotopes and quantities used: 35.100, 35.200, 35.300, 35.400, 35.500, 35.600 remote afterloader units, 35.600 teletherapy units, 35.600 gamma stereotactic radiosurgery units, emerging technologies (provide list of devices).

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

3. Structured Educational Program for Proposed Radiation Safety Officer (continued)

b. Supervised Radiation Safety Experience (continued)

(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Supervising Individual	License/Permit Number listing supervising individual as a Radiation Safety Officer
This license authorizes the following medical uses:	
<input type="checkbox"/> 35.100	<input type="checkbox"/> 35.200
<input type="checkbox"/> 35.300	<input type="checkbox"/> 35.400
<input type="checkbox"/> 35.500	<input type="checkbox"/> 35.600 (remote afterloader)
<input type="checkbox"/> 35.600 (gamma stereotactic radiosurgery)	<input type="checkbox"/> 35.600 (teletherapy)
	<input type="checkbox"/> 35.1000 (_____)

c. Describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.

Description of Training	Training Provided By	Dates of Training*
Radiation safety, regulatory issues, and emergency procedures for 35.100, 35.200, and 35.500 uses		
Radiation safety, regulatory issues, and emergency procedures for 35.300 uses		
Radiation safety, regulatory issues, and emergency procedures for 35.400 uses		
Radiation safety, regulatory issues, and emergency procedures for 35.600 - teletherapy uses		
Radiation safety, regulatory issues, and emergency procedures for 35.600 - remote afterloader uses		
Radiation safety, regulatory issues, and emergency procedures for 35.600 - gamma stereotactic radiosurgery uses		
Radiation safety, regulatory issues, and emergency procedures for 35.1000, specify use(s):		

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

3. Structured Educational Program for Proposed Radiation Safety Officer (continued)

c. Training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license (continued)

<p>Supervising Individual <i>If training was provided by supervising RSO, AU, AMP, or ANP. (If more than one supervising individual is necessary to document supervised training, provide multiple copies of this page.)</i></p>	<p>License/Permit Number listing supervising individual</p>
<p>License/Permit lists supervising individual as:</p> <p> <input type="checkbox"/> Radiation Safety Officer <input type="checkbox"/> Authorized User <input type="checkbox"/> Authorized Nuclear Pharmacist <input type="checkbox"/> Authorized Medical Physicist </p> <p>Authorized as RSO, AU, ANP, or AMP for the following medical uses:</p> <p> <input type="checkbox"/> 35.100 <input type="checkbox"/> 35.200 <input type="checkbox"/> 35.300 <input type="checkbox"/> 35.400 <input type="checkbox"/> 35.500 <input type="checkbox"/> 35.600 (remote afterloader) <input type="checkbox"/> 35.600 (teletherapy) <input type="checkbox"/> 35.600 (gamma stereotactic radiosurgery) <input type="checkbox"/> 35.1000 (_____) </p>	

d. Skip to and complete Part II Preceptor Attestation.

OR

4. Authorized User, Authorized Medical Physicist, or Authorized Nuclear Pharmacist identified on the licensee's license

- a. Provide license number.
- b. Use the table in section 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.
- c. Skip to and complete Part II Preceptor Attestation.

PART II – PRECEPTOR ATTESTATION

Note: This part must be completed by the individual's preceptor. The preceptor does not have to be the supervising individual as long as the preceptor provides, directs, or verifies training and experience required. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each.

First Section

Check one of the following:

1. Board Certification

I attest that _____ has satisfactorily completed the requirements in
Name of Proposed Radiation Safety Officer
 10 CFR 35.50(a)(1)(i) and (a)(1)(ii); or 35.50 (a)(2)(i) and (a)(2)(ii); or 35.50(c)(1).

OR

2. Structured Educational Program for Proposed Radiation Safety Officers

I attest that _____ has satisfactorily completed a structural educational
Name of Proposed Radiation Safety Officer
 program consisting of both 200 hours of classroom and laboratory training and one year of full-time radiation safety experience as required by 10 CFR 35.50(b)(1).

OR

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

Preceptor Attestation (continued)

First Section (continued)

Check one of the following:

3. Additional Authorization as Radiation Safety Officer

I attest that Anuradha Divakaruni, M.D. is an
Name of Proposed Radiation Safety Officer

Authorized User

Authorized Nuclear Pharmacist

Authorized Medical Physicist

identified on the Licensees license and has experience with the radiation safety aspects of similar type of use of byproduct material for which the individual has Radiation Safety Officer responsibilities

AND

Second Section

Complete for all (check all that apply):

I attest that Anuradha Divakaruni, M.D. has training in the radiation safety, regulatory issues, and
Name of Proposed Radiation Safety Officer

emergency procedures for the following types of use:

35.100

35.200

35.300 oral administration of less than or equal to 33 millicuries of sodium iodide I-131, for which a written directive is required

35.300 oral administration of greater than 33 millicuries of sodium iodide I-131

35.300 parenteral administration of any beta-emitter, or a photon-emitting radionuclide with a photon energy less than 150 keV for which a written directive is required

35.300 parenteral administration of any other radionuclide for which a written directive is required

35.400

35.500

35.600 remote afterloader units

35.600 teletherapy units

35.600 gamma stereotactic radiosurgery units

35.1000 emerging technologies, including:

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

AND

Third Section
Complete for ALL

I attest that Anuradha Divgkaruni, MD, has achieved a level of radiation safety knowledge
Name of Proposed Radiation Safety Officer
sufficient to function independently as a Radiation Safety Officer for a medical use licensee.

Fourth Section
Complete the following for Preceptor Attestation and signature

I am the Radiation Safety Officer for Elmhurst Memorial Hospital, Elmhurst, IL
Name of Facility

License/Permit Number: IL-01612-01 (copy attached)

Name of Preceptor	Signature	Telephone Number	Date
Stan Buhr	Stan W. Buhr	630-365-5858	8/13/09

STATE OF ILLINOIS
ILLINOIS EMERGENCY MANAGEMENT AGENCY
DIVISION OF NUCLEAR SAFETY

RADIOACTIVE MATERIAL LICENSE

1035 OUTER PARK DRIVE
SPRINGFIELD, ILLINOIS 62704

Pursuant to the Illinois Radiation Protection Act and the rules and regulations in 32 Illinois Administrative Code promulgated thereunder, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess and transfer radioactive material(s) listed herein; and to use such radioactive material(s) for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders of the Agency now or hereafter in effect and to any conditions specified in the license.

<u>LICENSEE</u>	<u>LICENSE NUMBER</u>	<u>EXPIRATION DATE</u>
Elmhurst Memorial Hospital 200 Berteau Avenue Elmhurst, IL 60126	IL-01612-01	August 31, 2010
	<u>AMENDMENT NUMBER</u>	
	19	

Attention: Connie Parker, M.D.
Vice President

In accordance with application dated May 10, 2005, License Number IL-01612-01 is renewed in its entirety.
Previous amendments are void.

ITEM	RADIONUCLIDE	CHEMICAL and/or PHYSICAL FORM	MAXIMUM ACTIVITY* PER SOURCE	MAXIMUM POSSESSION LIMIT
A.	Any in 32 Ill. Adm. Code 335.2040	Any calibration or reference source identified in 32 Ill. Adm. Code 335.2040.		As needed
B.	Any in 32 Ill. Adm. Code 335.3010	Any radiopharmaceutical identified in 32 Ill. Adm. Code 335.3010.		As needed
C.	Any in 32 Ill. Adm. Code 335.4010	Any radiopharmaceutical identified in 32 Ill. Adm. Code 335.4010.		As needed
D.	Any in 32 Ill. Adm. Code 335.5010	Any radiopharmaceutical identified in 32 Ill. Adm. Code 335.5010.		As needed
E.	Any in 32 Ill. Adm. Code 335.6010	Any sealed source identified in 32 Ill. Adm. Code 335.6010.		As needed
F.	Any in 32 Ill. Adm. Code 335.7010	Any sealed source identified in 32 Ill. Adm. Code 335.7010, excluding remote afterloaders.	1 Ci	As needed

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

APPROVED BY:

DATE

PAGE of PAGES


Charles G. Vinson, Supervisor of Materials Licensing
IL 473-0059

August 8, 2005

1 7

STATE OF ILLINOIS
 IEMA DIVISION OF NUCLEAR SAFETY
 RADIOACTIVE MATERIAL LICENSE

<u>LICENSEE</u>	<u>LICENSE NUMBER</u>	<u>AMENDMENT NUMBER</u>	<u>EXPIRATION DATE</u>
Elmhurst Memorial Hospital	IL-01612-01	19	August 31, 2010

<u>ITEM</u>	<u>RADIONUCLIDE</u>	<u>CHEMICAL and/or PHYSICAL FORM</u>	<u>MAXIMUM ACTIVITY* PER SOURCE</u>	<u>MAXIMUM POSSESSION LIMIT</u>
G.	Any in 32 Ill. Adm. Code 330.220(f)(1)	Prepackaged kits.		As needed
H.	Ir-192	Sealed Source – Best Industries Model 81-01	35 mCi	2.1 Ci

AUTHORIZED USE:

- A. For use as calibration and reference sources.
- B. Any medical use identified in 32 Ill. Adm. Code 335.3010.
- C. Any medical use identified in 32 Ill. Adm. Code 335.4010.
- D. Any medical use identified in 32 Ill. Adm. Code 335.5010.
- E. Any medical use identified in 32 Ill. Adm. Code 335.6010.
- F. Any medical use identified in 32 Ill. Adm. Code 335.7010.
- G. *In vitro* testing.
- H. For storage only.

CONDITIONS

1. Radioactive material shall be used only at the licensee's facilities located at 200 Berteau Avenue, Elmhurst, Illinois in accordance with statements, representations and procedures listed in other conditions of this license.

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

APPROVED BY:

DATE

PAGE of PAGES

Charles G. Vinson, Supervisor of Materials Licensing
 IL 473-0059

August 8, 2005

2 7

STATE OF ILLINOIS
 IEMA DIVISION OF NUCLEAR SAFETY
 RADIOACTIVE MATERIAL LICENSE

<u>LICENSEE</u>	<u>LICENSE NUMBER</u>	<u>AMENDMENT NUMBER</u>	<u>EXPIRATION DATE</u>
Elmhurst Memorial Hospital	IL-01612-01	19	August 31, 2010

2. Radioactive material is authorized for use by, or under the supervision of, the following individual(s) for the materials and uses indicated:

I. H. Abbasy, M.D.	E.
Eugene J. Bartucci, M.D.	E.
Timothy E. Caragher, Ph.D.	G.
Lee Dennis, M.D.	B., C., D., E. and G.
Balbino B. Fernandez, M.D.	G.
Hatem Galal, M.D.	E.
William M. Hadesman, M.D.	E.
Gerald B. Holtz	B., C., E. and G.
Peter W. T. Hui, M.D.	E.
Raymond Janevicius, M.D.	E.
Alvin Kanter, M.D.	E.
John W. Laude, M.D.	B., C., D., E. and G.
Regina Liebman, M.D.	B. and C.
James Migala, M.D.	E.
Dean R. Milos, M.D.	E.
David Morrissey, M.D.	B., C., E. and G.
Dwight M. Morrow, M.D.	G.
Aloyzas K. Pakalniskis, M.D.	B., C. and G.
Robert L. Peiss, M.D.	B., C., D., E. and G.
Thomas L. Rodts, M.D.	E.
Howard D. Roth, M.D.	B., C., E. and G.
Alan Simon, M.D.	B. and C.
Arvind Soni, M.D.	D., F., H. and I.
Ronald Stefani, M.D.	E.
Marcelo E. Virgili, M.D.	E.

In addition, radioactive material listed in License Schedule Item A. is authorized for use by or under the supervision of any one of the individuals listed in this condition.

3. The Radiation Safety Officer for this license is Stan Buhr.
4. The licensee shall decontaminate or restrict access to each area described in 32 Ill. Adm. Code 335.2080(d) for which removable radioactive contamination is found to exceed 2000 dpm/100 cm². This monitoring must be performed to ensure that decontamination was effective or decay reduced the levels adequately. Records of monitoring must contain the information specified in 32 Ill. Adm. Code 335.2080(f).

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

APPROVED BY:

DATE

PAGE of PAGES

Charles G. Vinson, Supervisor of Materials Licensing

IL 473-0059

August 8, 2005

3

7

CARDIAC CARE CONSULTANTS
615 COLUMBIA AVE.
MONSTER, IN 46321



Wm Reichhold
U.S. Nuclear Regulatory Commission
Region III
NRC Materials Licensing Branch
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4351