



The  
Cardiovascular  
Group, P.C.

J-6

Fritz H. Andersen, M.D., F.A.C.C.  
Anthony Chang, M.D., F.A.C.C., F.A.C.P.  
Nicholas Cossa, M.D., F.A.C.C.  
Stephen M. Day, M.D.  
Richard F. Dietz, M.D., F.A.C.C.  
Robert F. Herron, D.O., F.A.C.C., F.A.C.P.  
Sara Kulangara, M.D.  
Warren S. Levy, M.D., F.A.C.C.  
Carey M. Marder, M.D., F.A.C.C.  
J. Kenneth Marshall, M.D., F.A.C.C.  
Francis J. McGrath, M.D., F.A.C.C.  
Lawrence A. Miller, M.D., F.A.C.C.  
Diane Mukherjee, M.D., F.A.C.C.  
Pradeep R. Nayak, M.D., F.A.C.C.  
Antonio R. Parente, M.D., F.A.C.C.  
Dean M. Pollock, M.D., F.A.C.C.  
Stephen P. Rosenfeld, M.D., F.A.C.C.  
Anne M. Safko, M.D., F.A.C.C.  
Harry Schwartz, M.D., F.A.C.C.  
Stuart E. Sheifer, M.D.  
Robert A. Shor, M.D., F.A.C.C.  
Joseph M. Smith, M.D., Ph.D., F.A.C.C.  
Mark P. Tanenbaum, M.D., F.A.C.C.

August 26, 2008

Nuclear Regulatory Commission  
Commercial and R&D Branch  
Division of Nuclear Materials Safety  
Region I  
475 Allendale Road  
King of Prussia, Pennsylvania 19406

RECEIVED  
REGION I  
2008 AUG 27 AM 10:10

RE: The Cardiovascular Group  
License Amendment  
45-25533-01 03035466

To Whom It May Concern:

Please amend the above referenced license to add Michael P. Notarianni, M.D. as authorized users to the above referenced license. Documentation in support of these physician's credentials is enclosed.

Any questions regarding this request may be directed to me at (703) 641-0500.

Sincerely,

Neil C. Smarte, C.N.M.T.  
Radiation Safety Officer.

4660 Kenmore Ave., Suite 1200  
Alexandria VA 22304  
703-751-8111 ♥ Fax 703-751-1105

1635 N. George Mason Dr., Suite 190  
Arlington VA 22205  
703-524-7202 ♥ Fax 703-516-4501

611 S. Carlin Springs Rd., Suite 203  
Arlington VA 22204  
703-671-8200 ♥ Fax 703-379-9767

3700 Joseph Siewick Dr., Suite 102  
Fairfax VA 22033  
703-648-3266 ♥ Fax 703-648-3264

44055 Riverside Pkwy., Suite 200  
Leesburg VA 20176  
703-858-3050 ♥ Fax 703-858-3051

1830 Town Center Dr., Suite 201  
Reston VA 22090  
703-437-5977 ♥ Fax 703-478-2475

130 Park St. SE, Suite 100  
Vienna VA 22180  
703-281-1265 ♥ Fax 703-255-0571

3289 Woodburn Rd., Suite 375  
Annandale VA 22003  
703-573-3494 ♥ Fax 573-5353

142632  
NMSS/RGNI MATER.ALS-002

NRC FORM 313A (AUD)  
(3-2007)

U.S. NUCLEAR REGULATORY COMMISSION

**AUTHORIZED USER TRAINING AND EXPERIENCE  
AND PRECEPTOR ATTESTATION**  
(for uses defined under 35.100, 35.200, and 35.500)  
[10 CFR 35.190, 35.290, and 35.590]

APPROVED BY OME: NO. 3150-0126  
EXPIRES: 10/31/2009

Name of Proposed Authorized User

Michael Notarianni, M.D.

State or Territory Where Licensed

Virginia

Requested Authorization(s) (check all that apply)

- 35.100 Uptake, dilution, and excretion studies
- 35.200 Imaging and localization studies
- 35.500 Sealed sources for diagnosis (specify device \_\_\_\_\_)

**PART I -- TRAINING AND EXPERIENCE**  
(Select one of the three 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. If using only 35.500 materials, stop here. If using 35.100 and 35.200 materials, skip to and complete Part II Preceptor Attestation.

**2. Current 35.390 Authorized User Seeking Additional 35.290 Authorization**

- a. Authorized user on Materials License \_\_\_\_\_ meeting 10 CFR 35.390 or equivalent Agreement State requirements seeking authorization for 35.290.
- b. Supervised Work 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 Experience/License or Permit Number of Facility	Clock Hours	Dates of Experience*
Eluting generator systems appropriate for the preparation of radioactive drugs for imaging and localization studies, measuring and testing the eluate for radionuclidic purity, and processing the eluate with reagent kits to prepare labeled radioactive drugs			

**Total Hours of Experience:**

Supervising Individual

License/Permit Number listing supervising individual as an authorized user

Supervisor meets the requirements below, or equivalent Agreement State requirements (check all that apply).

- 35.290
- 35.390 + generator experience in 32.290(c)(1)(ii)(G)

NRC FORM 313A (AUD)  
(3-2007)

U.S. NUCLEAR REGULATORY COMMISSION

## AUTHORIZED USER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

 3. Training and Experience for Proposed Authorized User

## a. Classroom and Laboratory Training.

Description of Training	Location of Training	Clock Hours	Dates of Training*
Radiation physics and instrumentation	St. Elizabeth's Medical Center of Boston 736 Cambridge Street, Boston, Mass. 02135	40 hours	January to March 1997
Radiation protection	St. Elizabeth's Medical Center of Boston 736 Cambridge Street, Boston, Mass. 02135	40 hours	January to March 1997
Mathematics pertaining to the use and measurement of radioactivity	St. Elizabeth's Medical Center of Boston 736 Cambridge Street, Boston, Mass. 02135	40 hours	January to March 1997
Chemistry of byproduct material for medical use (not required for 35.590)	St. Elizabeth's Medical Center of Boston 736 Cambridge Street, Boston, Mass. 02135	40 hours	January to March 1997
Radiation biology	St. Elizabeth's Medical Center of Boston 736 Cambridge Street, Boston, Mass. 02135	40 hours	January to March 1997
<b>Total Hours of Training:</b>		200 hours	

b. Supervised Work Experience (completion of this table is not required for 35.590).  
(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Supervised Work Experience		Total Hours of Experience: 500+	
Description of Experience Must include:	Location of Experience/License or Permit Number of Facility	Confirm	Dates of Experience*
Ordering, receiving, and unpacking radioactive materials safely and performing the related radiation surveys	Beth Israel Deaconess Medical Center Boston, Mass Mass. Radiation Control Program #600432	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	July 1996-1997
Performing quality control procedures on instruments used to determine the activity of dosages and performing checks for proper operation of survey meters	Beth Israel Deaconess Medical Center Boston, Mass Mass. Radiation Control Program #600432	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	July 1996-1997

NRC FORM 313A (AUD)  
(3-2007)

U.S. NUCLEAR REGULATORY COMMISSION

**AUTHORIZED USER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)**

**3. Training and Experience for Proposed Authorized User (continued)**

**b. Supervised Work Experience. (continued)**

Description of Experience Must Include:	Location of Experience/License or Permit Number of Facility	Confirm	Dates of Experience*
Calculating, measuring, and safely preparing patient or human research subject dosages	Beth Israel Deaconess Medical Center Boston, Mass Mass. Radiation Control Program #600432	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	July 1996-1997
Using administrative controls to prevent a medical event involving the use of unsealed byproduct material	Beth Israel Deaconess Medical Center Boston, Mass Mass. Radiation Control Program #600432	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	July 1996-1997
Using procedures to contain spilled byproduct material safely and using proper decontamination procedures	Beth Israel Deaconess Medical Center Boston, Mass Mass. Radiation Control Program #600432	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	July 1996-1997
Administering dosages of radioactive drugs to patients or human research subjects	Beth Israel Deaconess Medical Center Boston, Mass Mass. Radiation Control Program #600432	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	July 1996-1997
Eluting generator systems appropriate for the preparation of radioactive drugs for imaging and localization studies, measuring and testing the eluate for radionuclidic purity, and processing the eluate with reagent kits to prepare labeled radioactive drugs	Beth Israel Deaconess Medical Center Boston, Mass Mass. Radiation Control Program #600432	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	July 1996-1997

Supervising Individual

Duane Pinto, M.D.

License/Permit Number listing supervising individual as an authorized user  
Mass. Radiation Control Program #600432

Supervisor meets the requirements below, or equivalent Agreement State requirements (*check one*).

- 35.190     35.290     35.390     35.390 + generator experience in 35.290(c)(1)(i)(G)

**c. For 35.590 only, provide documentation of training on use of the device.**

Device	Type of Training	Location and Dates

**d. For 35.500 uses only, stop here. For 35.100 and 35.200 uses, skip to and complete Part II Preceptor Attestation.**

NRC FORM 313A (AUD)  
(3-2007)

U.S. NUCLEAR REGULATORY COMMISSION

**AUTHORIZED USER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)**

**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. (Not required to meet training requirements in 35.590)

**First Section**

Check one of the following for each use requested:

For 35.190

Board Certification

I attest that \_\_\_\_\_ has satisfactorily completed the requirements in  
Name of Proposed Authorized User

10 CFR 35.190(a)(1) and has achieved a level of competency sufficient to function independently as an authorized user for the medical uses authorized under 10 CFR 35.100.

OR

Training and Experience

I attest that \_\_\_\_\_ has satisfactorily completed the 60 hours of training and  
Name of Proposed Authorized User

experience, including a minimum of 8 hours of classroom and laboratory training, required by 10 CFR 35.190(c)(1), and has achieved a level of competency sufficient to function independently as an authorized user for the medical uses authorized under 10 CFR 35.100.

For 35.290

Board Certification

I attest that \_\_\_\_\_ has satisfactorily completed the requirements in  
Name of Proposed Authorized User

10 CFR 35.290(a)(1) and has achieved a level of competency sufficient to function independently as an authorized user for the medical uses authorized under 10 CFR 35.100 and 35.200.

OR

Training and Experience

I attest that Michael Notarianni, M.D. has satisfactorily completed the 700 hours of training  
Name of Proposed Authorized User

and experience, including a minimum of 80 hours of classroom and laboratory training, required by 10 CFR 35.290(c)(1), and has achieved a level of competency sufficient to function independently as an authorized user for the medical uses authorized under 10 CFR 35.100 and 35.200.

**Second Section**

Complete the following for preceptor attestation and signature:

I meet the requirements below, or equivalent Agreement State requirements, as an authorized user for:

- 35.190
- 35.290
- 35.390
- 35.390 + generator experience

Name of Preceptor Duane Pinto, M.D.	Signature 	Telephone Number (617) 667-8800	Date 25 Aug 2008
License/Permit Number/Facility Name Commonwealth of Massachusetts Radiation Control Program # 600432			



# Beth Israel Deaconess Medical Center



A teaching hospital of  
Harvard Medical School

**Duane S. Pinto, MD**

*Division of Cardiology  
Interventional Cardiology  
Section*

*Assistant Professor of  
Medicine  
Harvard Medical School*

*Director, Cardiovascular  
Disease Fellowship  
Training Program*

*Associate Firm Chief,  
Zoll Cardiology Firm*

August 26, 2008

To: Certification Board of Nuclear Cardiology

Date: August 25, 2008

Michael Notarianni, M.D. has completed a fellowship training program in nuclear cardiology that meets the requirements for Level 2 as outlined in the ACC/ASNC COCATS Guidelines for Training in Nuclear Cardiology, (revised 2006) within an accredited fellowship program.

Michael Notarianni, M.D. completed level 2 nuclear cardiology training between the dates of 7/1/1996 and 6/30/1999.

I attest that Dr. Notarianni is competent to independently function as an authorized user under NRC 10 CFR 35.290 uses. He completed more than 80 hours of classroom and laboratory training that meets the NRC requirements external to his/her fellowship program.

Sincerely,

Duane Pinto, M.D.

Preceptor

Program Director, Cardiology Fellowship

600432 Commonwealth of Massachusetts Radiation Control Program

Interventional Cardiology Section  
155 Pilgrim Road, Palmer 415  
Boston, Ma 02215

office (617) 632-7515  
fax (617) 632-7460  
dpinto@bidmc.harvard.edu

# **St. Elizabeth's Medical Center of Boston**

This is to certify that

**MICHAEL NOTARIANNI, M.D.**

has successfully completed the course for physicians entitled

**Radiation Physics and Biology**

for a total of 200 hours of lectures, demonstrations and related assignments

**SUBJECTS COVERED INCLUDE:**

**Radiation Physics and Instrumentation**

**Radiation Biology**

**Instrumentation for Radionuclide Imaging**

**Radiopharmaceutical Chemistry**

**Radiation Safety and Protection**

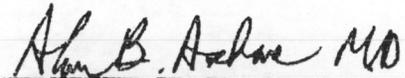
**Mathematics Pertaining to the Use and Measurement of Radioactivity**

as specified by the USNRC, CFR 10, Chapter 1, Part 35.920

sponsored by the Division of Nuclear Medicine  
St. Elizabeth's Medical Center of Boston, Massachusetts

**Dates:**

**January through March 1997**



**Alan B. Ashare, M.D.  
Program Director**



# BETH ISRAEL DEACONESS MEDICAL CENTER

A member of CAREGROUP



A major teaching hospital of Harvard Medical School

Michael T. Johnstone, M.D.  
FRCP(C), FACC, FACP  
Department of Medicine  
Cardiovascular Division

July 1, 2002

Co-Director  
Diabetic Heart Program

Medical Director,  
Cardiac Rehabilitation and  
Prevention

Co-Director, Cardiology  
Fellowship Training Program

Assistant Professor of Medicine,  
Harvard Medical School

To Whom It May Concern:

This Letter is to affirm that Michael Notarianni, MD gained clinical experience at the Beth Israel Deaconess Medical Center in nuclear cardiology. The preceptorship began July 1, 1996 and ended June 30<sup>th</sup>, 1999. Dr. Notarianni actively participated in the following number of both planar and SPECT myocardial imaging procedures:

1450	Myocardial (perfusion) imaging rest/exercise/pharmacologic (Thallium/Sestamibi)
50	Myocardial pain resting sestamibi studies
25	Viability studies with Thallium imaging
35	Gated equilibrium/"first pass" radionuclide cineangiography (rest/exercise)
50	Correlation with catheterization/angiographic data and myocardial perfusion

### Nuclear Cardiology Hours

Clinical I consult rotation	10 weeks	40hrs/wk x 10 x 50%	200 hours
Clin II CCU rotation	10 weeks	40hrs/wk x 10 x 25%	100 hours
ECG/Stress rotation	12 weeks	140 radionuclide hours	140 hours
Reading Sessions	40 weeks	40 wks x 7hrs/wk	280 hours
Clinic 7/96-6/99	1 pts/wk	90 wks x 1pt/wk	90 hours
Nuclear Med Rotation	4/97, 9/97, 5/98, 9/98, 4/99		440 hours
New England Med Nuc Mtg	10/96 Waltham, 10/97 Peabody MA		6 hours
Didactic Nuclear Conference	5 conferences x 1 hour		<u>5 hours</u>
<b>TOTAL</b>			<b>1261 hours</b>

During this time, Dr. Notarianni has acquired experience in: calibrating dose calibrators and diagnostic instruments and performing checks for proper operation of survey meters; calculating and safely preparing patient dosages; receiving and unpacking radioactive materials safely and performing the radiation surveys; eluting the technetium-99m generator system, measuring and testing the elute for molybdenum-99 and alumina contamination; using administrative controls to prevent the misadministration of byproduct material; administering Thallium/sestamibi dosages to patients and using syringe radiation shields; calibration and set up of the gamma camera, and processing data; collaborating with the authorized user in the interpretation of the radioisotope test results; selecting the suitable radiopharmaceuticals and calculating the dosages; examining the patients and reviewing their case histories to determine the suitability for radioisotope diagnosis, limitations or contraindications; and patient follow up.

The hours of nuclear cardiology clinical and work experience during this period exceeds 1000 hours.

Sincerely yours,

Michael T. Johnstone, MD

Lowry Medical Office Building  
110 Francis Street, Suite 4B  
Boston, MA 02215

(617) 632-9294  
fax (617) 632-7533  
email: mjohnst1@caregroup.harvard.edu



BETH ISRAEL DEACONESS  
MEDICAL CENTER

A member of CAREGROUP



A major teaching hospital  
of Harvard Medical School

July 1, 2000

Michael Johnstone, MD,  
FRCP(C), FACC, FACP  
Department of Medicine

Medical Director, Cardiac  
Rehabilitation and Prevention  
Co-Director, Cardiology  
Fellowship Training Program  
Cardiovascular Division

Instructor in Medicine

Re: Michael Notarianni, MD

To Whom It May Concern:

Please allow this letter to attest to the training and experience of Dr. Michael Notarianni while at Beth Israel Deaconess Medical Center during the period July 1, 1996 to June 30, 1999.

During his tenure here, Dr. Notarianni received 500 hours of work experience under the supervision of an authorized user. This included the ordering, receiving, and unpacking of radioactive materials and the related surveys, calibration of the dose calibrator and diagnostic instruments, and performing checks for proper operation of survey meters; calculating and safely preparing patient dosages; using administrative controls to prevent misadministrations; and using procedures to contain spilled byproduct materials safely, and using decontaminating procedures, as applicable.

Dr. Notarianni also received 500 hours of clinical experience under the supervision of an authorized user. This included examining patients and reviewing their case histories to determine their suitability for radioisotope diagnosis, limitations, or contraindications; selecting the suitable radiopharmaceuticals and calculating and measuring dosages; administering the dosages to patients using syringe shields; collaborating with the authorized user in the interpretation of radioisotope test results; and patient follow-up. During his three years at Beth Israel Deaconess, Dr. Notarianni completed approximately 450 nuclear cardiology cases, including myocardial perfusion studies, nuclear ventriculograms, and viability studies. He also performed quality assurance evaluation on approximately 25% of these cases.

If you should have any questions or concerns about the training of Dr. Michael Notarianni, please feel free to contact me.

Sincerely,

Michael Johnstone, MD

MJ/hs

Lowry Medical Office Building  
110 Francis Street, Suite 4B  
Boston, MA 02215

(617) 632-9294  
fax (617) 632-7533  
email: mjohnst1@caregroup.harvard.edu



BETH ISRAEL DEACONESS  
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A major teaching hospital  
of Harvard Medical School

Michael T. Johnstone, M.D.  
FRCP(C), FACC, FACP  
Department of Medicine  
Cardiovascular Division

July 1, 2002

Co-Director,  
Diabetic Heart Program

RE: Michael Notarianni, MD

Medical Director,  
Cardiac Rehabilitation and  
Prevention

To Whom It May Concern:

Co-Director, Cardiology  
Fellowship Training Program

Michael Notarianni, MD spent in excess of six months under my supervision at the Beth Israel Deaconess Medical Center. He completed approximately 450 nuclear cardiology cases, the bulk of which were dual isotope myocardial perfusion studies. He is skilled in reading cardiolute stress tests, hybrid cardiolute stress tests, and thallium viability studies. He is also capable of performing and interpreting MUGA scans, as well as first pass cases.

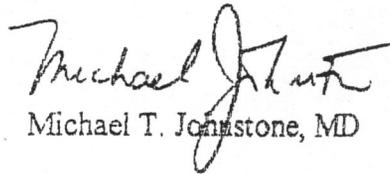
Assistant Professor of Medicine  
Harvard Medical School

Michael exemplified himself as one of the outstanding fellows in our nuclear cardiology laboratory. He was able to run the lab unsupervised, and his interpretations, as demonstrated by his own quality assurance, were comparable to the best readers in the country. Finally he is skilled at interpreting these studies in the context of the patient's heart disease and is capable of using this information to devise the appropriate treatment strategy.

Michael got along with the staff and was always very punctual.

I strongly support Dr. Notarianni's application to become an authorized user on your radioactive materials license. If you should have any questions or concerns about the training of Dr. Michael Notarianni, please feel free to contact me.

Sincerely,

  
Michael T. Johnstone, MD



BETH ISRAEL DEACONESS  
MEDICAL CENTER

A member of CAREGROUP



A major teaching hospital  
of Harvard Medical School

Michael Johnstone, MD,  
FRCP(C), FACC, FACP  
Department of Medicine

July 1, 2000

Medical Director, Cardiac  
Rehabilitation and Prevention  
Co-Director, Cardiology  
Fellowship Training Program  
Cardiovascular Division

U. S. Nuclear Regulatory Commission

Instructor in Medicine

Re: Michael Notarianni, MD  
NYS Dept. of Health  
Radioactive Materials  
License No. 3094  
DH No. 00-241

To Whom It May Concern:

Michael Notarianni, MD, spent in excess of six months under my supervision at Beth Israel Deaconess Medical Center. He completed approximately 450 nuclear cardiology cases, the bulk of which were dual-isotope myocardial perfusion studies. He is skilled in reading cardiolute stress tests, hybrid cardiolute stress tests, and thallium viability studies. He is also capable of performing and interpreting MUGA scans, as well as first-pass cases.

Michael exemplified himself as one of the outstanding fellows in our Nuclear Cardiology Laboratory. He was able to run the lab unsupervised, and his interpretations, as demonstrated by his own quality assurance, were comparable to the best readers in the country. Finally, he is skilled at interpreting these studies in the context of the patient's heart disease, and is capable of using this information to devise an appropriate treatment strategy.

Michael got along very well with the staff, and was always punctual.

I strongly support Dr. Notarianni's application to become an authorized user on your radioactive materials license. If you have any further questions, please feel free to call me at 617-632-7681.

Sincerely,

Michael Johnstone, MD

MJ/hs

Lowry Medical Office Building  
110 Francis Street, Suite 4B  
Boston, MA 02215

(617) 632-9294  
fax (617) 632-7533  
email: mjohnst1@caregroup.harvard.edu

# MICHAEL PHILIP NOTARIANNI, MD, FACC

8911 Lynnhurst Drive, Fairfax, VA 22031

## Contact Numbers:

Home:

[REDACTED]

Cell:

[REDACTED]

Fax:

[REDACTED]

Email:

[REDACTED]

## Work Experience:

2002 - Present

**The Cardiovascular Group, P.C.,**  
Attending Cardiologist  
Virginia Hospital Ctr., Fair Oaks Hospital  
and Fairfax Hospital  
Arlington, VA

1999- 2002

**Onondaga Hill Cardiovascular Group, P.C.,**  
Attending Cardiologist,  
Community General Hospital, St. Joseph's Hospital,  
and Crouse Memorial Hospital  
Syracuse, NY

## Postdoctoral Training:

1996 - 1999

**BETH ISRAEL DEACONESS MEDICAL CENTER**  
Harvard Medical School, Boston, MA  
Cardiology Fellowship

1993 - 1996

**GEORGETOWN UNIVERSITY HOSPITAL**  
Washington, DC  
Internship and Residency, Internal Medicine

## Education:

1993

**HAHNEMANN UNIVERSITY**  
Philadelphia, PA  
Medical Doctor Degree, June 1993

1988

**BOSTON COLLEGE**, School of Arts & Sciences  
Newton, MA  
Bachelor of Science Degree, Biology/Pre-Med.

## DIRECTORSHIPS

2005

Virginia Hospital Center Cardiac Rehab.

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

## Board Certifications:

2002 Fellow, American College of Cardiology  
2000 - 2010 American Board of Internal Medicine, Cardiovascular Disease  
1999 - 2009 American Board of Internal Medicine  
1994 USMLE

## Licensure

VA Board of Medicine 0101051518 expires: 6-30-07  
MA Board of Medicine 151339 expires: 6-30-03  
NY Board of Medicine 215253 expires: 7-31-05

## Previous Work Experience:

1997-1999 Coverage for Cardiology Practice, Deaconess Glover Hospital  
Needham, MA  
1996-1999 Moonlighter ICU, New England Baptist Hospital,  
Boston, Massachusetts  
1993-1996, Moonlighter ICU, Fairfax Hospital & Arlington Hospitals.  
Arlington, VA

## Research

### Fellowship:

#### Published:

1. Hartnell G., Notarianni M. MRI and ECHO: How Do They Compare in Adults? *Seminars in Roentgenology*. 1998; 33: 252-261.
2. Johnstone M., Notarianni M., Charlamb M., Rasmussen C., Quist W., and Levitsky S. Ventricular Tachycardia: A Complication of an Intramyocardial Echinococcal Cyst. *Circulation*, 2000 102: 123-125.
3. Burger AJ, Notarianni MP, Aronson D. Safety and efficacy of an accelerated Dobutamine stress echocardiography protocol in the evaluation of coronary artery disease. *Am J Cardiol*, 2000 Aug 15; 86(8):825-829.
4. Burger AJ, Charlamb MJ, Singh S, Notarianni M, Blackburn GL, Sherman HB. Low risk of significant echocardiographic valvulopathy in patients treated with anorectic drugs. *Int J Cardiol*, 2001 Jul;79(2-3):159-65.

#### Abstracts/Presentations:

1. False Positive ST Segment Elevation during Dobutamine Stress Testing Due to LVH. Accepted Poster: Can CV Society 10/98
2. Low Incidence of Embolic Events with Atrial Septal Aneurysms: A Prospective Long Term Study. ACC 5/99.
3. Investigator in the Multi-country, randomized, double-blind, parallel, placebo-controlled trial to assess the effect of Valsartan on morbidity and mortality, signs and symptoms, and quality of life in patients with stable, chronic congestive heart failure (NYHA II-IV).
4. Investigator in Natrecor (nesiritide) Versus Dobutamine Therapy for Symptomatic, Decompensated CHF: A safety study using 24-Hr Holter

REFERENCES AVAILABLE ON REQUEST

Revised 8/24/2006



---

*Pri-Med Institute certifies that*

Name: Michael Notarianni, MD

*has participated in the educational activity titled*

Title: Discerning the Cause of Intermittent Chest Pain in a 63 yo Woman

On: 5/17/2007

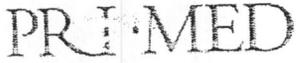
*And is awarded 2.00 AMA PRA Category 1 Credit(s).™*

*Marissa Seligman, PharmD*

Marissa Seligman, PharmD  
Chief Clinical & Regulatory Affairs Officer and VP  
Pri-Med Institute

PR I · MED

c/o M|C Communications, LLC - 101 Huntington Ave - Boston, MA 02199  
Tel. 617.406.4000 Fax. 617.406.4100 Web. pri-med.com



AMA Category 1 Credits

Activity Title

Format

Amount

Discerning the Cause of Intermittent Chest Pain in a 63 yo Woman

Patient Case Study

2.00

Total Credits

2.00

## Online CME Activity

[View all Nuclear Cardiology Activities](#)

Title: **Discerning the Cause of Intermittent Chest Pain in a 63 yo Woman**  
 Expiration Date: **5/26/2007**  
 Topic: **Nuclear Cardiology**  
 Primary audience: **Cardiologists**  
 Activity format: **Patient Case Study**  
 Credits: **2.00 AMA Category 1**



**BEGIN**

### Learning Objective

Participants should be able to detail at least three factors to consider in the evaluation of a patient with chest pain and detail the role of stress testing in characterizing functional perfusion defects.

Credits	Type	Accreditation Statement	Designation Statement
2.00	AMA Category 1	Pri-Med Institute is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.	Pri-Med Institute designates this educational activity for a maximum of 2 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

[View Additional Accreditation Information](#)

### Faculty and Editorial Board

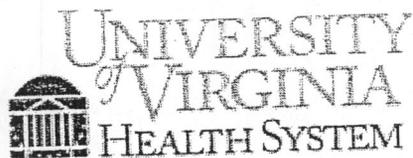
Reviewed by **Jeffrey Shanes, MD**, Clinical Associate Professor of Medicine, Rosalind Franklin University of Medicine and Science, Chicago, IL  
**Christine Young, MD**, Clinical Editor  
**Nancy Otto, PharmD**, Senior Clinical Editor, Pri-Med Institute

### Financial Disclosure Statement(s)

Dr Shanes has received honoraria from GSK, Abbott, Sanoï, AstraZeneca, and Takeda. He has served as a consultant to Abbott and AstraZeneca.  
 Dr Young has no financial relationships to disclose.  
 Dr Otto has no financial relationships to disclose.

**Education Partner:** Pri-Med Institute

**Commercial Support:** This CME activity is supported with an educational grant from Bristol-Myers Squibb Medical Imaging.



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**CardioVillage**

*A web-based education program in cardiovascular medicine*

and is awarded 10 hours of *AMA PRA Category 1 Credit™* toward  
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A handwritten signature in cursive script, appearing to read "Jann Balmer".

Jann Balmer, RN, PhD  
CME Faculty Coordinator

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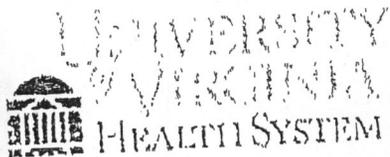
  
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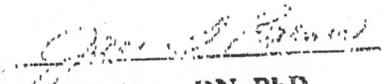
*A web-based education program in cardiovascular medicine*

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has participated  
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*A web-based education program in cardiovascular medicine*

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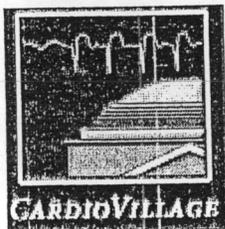
  
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CME/CEU	
Educational pages visited in the learning pavilions during this session:	0
CME hours (CEUs) earned during this session:	0.00 ( 0.000)
CME hours (CEUs) earned to date but for which you have not yet applied. These hours may be applied for at any time.*	0.00 ( 0.000)
Listed below are the dates and amount of CME/CEU credit already received through CardioVillage to date (retain a copy of the certificate for your records).	
<b>view / print</b> <b>Date:</b> 4/25/2007 <b>CME credit:</b>	10.00
Total CME hours and/or CEUs received from CardioVillage to date:	CME: 10.00 CEUs: 0.000
*The University of Virginia School of Medicine is accredited by the ACCME to provide Continuing Medical Education (CME) for physicians. The University of Virginia School of Medicine designates this educational activity appropriate for <i>AMA PRA Category 1 Credit™</i> of the Physician's Recognition Award of the American Medical Association representing 0.1 Continuing Education Unit (CEU) per contact hour. Each participant should claim only those hours of credit that he/she actually spends in the educational activity.	

Registration Information	
Email:	[REDACTED]
Last Name:	Notarianni
Middle Name:	P
First Name:	Michael
Affiliation:	Georgetown university
Address:	[REDACTED]
City:	[REDACTED]
State:	[REDACTED]
Country:	[REDACTED]
ZIP:	[REDACTED]
Phone:	[REDACTED]
Fax:	[REDACTED]
Date of Birth:	[REDACTED]
Professional Category:	Physician
Specialty:	Cardiology, General Medicine
Interests:	Nuclear Cardiology, Echocardiography, Diagnostic Cardiac Catheterization
Type of CME credit:	CME
Contact:	Colleague
Preferred bandwidth:	
Created:	February 12, 2007
Last update:	February 12, 2007
Last on line:	May 10, 2007

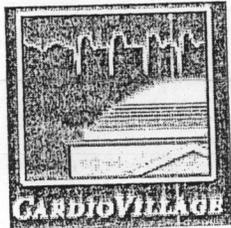
Visited Exercises				
Exercises:	Date:	Pages:	Visited:	Credit (CME, for CEU divide by 10):
Case Study: Predictive Value of Perfusion Imaging	4/25/2007	13	2 (15%)	.25
Case Study: Nuclear Imaging Pre- and Post-PTCA	4/25/2007	7	7 (100%)	.50
Case Study: Dilated vs. Ischemic Cardiomyopathy	4/25/2007	11	11 (100%)	.75
Nuclear Stress Testing to Diagnose CAD	4/5/2007	14	14 (100%)	.75
The Role of Myocardial Perfusion Imaging in Patients with Congestive Heart Failure	4/5/2007	42	42 (100%)	2.25

About CME Registration

Pharmacologic Stress Myocardial Perfusion Imaging	4/5/2007	44	44 (100%)	2.25
Bayes' Theorem	2/12/2007	10	10 (100%)	.50
Sensitivity and Specificity	2/12/2007	6	6 (100%)	.50
Isotope Basics	2/12/2007	8	8 (100%)	.50
Posttest: Nuclear Cardiology	2/12/2007	7	1 (14%)	.25
Principles of Quantitative Imaging	2/12/2007	13	13 (100%)	.75
Pretest: Nuclear Cardiology	2/12/2007	12	12 (100%)	.75

**Registration Records**

CONTINUE



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CME/CEU	
Educational pages visited in the learning pavilions during this session:	54
CME hours (CEUs) earned during this session:	3.50 ( 0.350)
CME hours (CEUs) earned to date but for which you have not yet applied. These hours may be applied for at any time.*	3.00 ( 0.300)
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Total CME hours and/or CEUs received from CardioVillage to date:	CME: 10.00 CEUs: 0.000
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Registration Information
Email: [REDACTED]
Last Name: Notarianni
Middle Name: P
First Name: Michael
Affiliation: Georgetown university
Address: [REDACTED]
City: [REDACTED]
State: [REDACTED]
Country: United States
ZIP: [REDACTED]
Phone: [REDACTED]
Fax: [REDACTED]
Date of Birth: [REDACTED]
Professional Category: Physician
Specialty: Cardiology, General Medicine
Interests: Nuclear Cardiology, Echocardiography, Diagnostic Cardiac Catheterization
Type of CME credit: CME
Contact: Colleague
Preferred bandwidth:
Created: February 12, 2007
Last update: February 12, 2007
Last on line: May 10, 2007

Visited Exercises				
Exercises:	Date:	Pages:	Visited:	Credit (CME, for CEU divide by 10):
Posttest: Nuclear Cardiology	5/17/2007	7	7 (100%)	.50
Board Review and Self Assessment: Nuclear Cardiology	5/17/2007	13	13 (100%)	.75
Case Study: Assessment of Viability in Ischemic Cardiomyopathy	5/17/2007	16	16 (100%)	1.00
Case Study: Silent Myocardial Ischemia in a Diabetic Patient	5/17/2007	8	8 (100%)	.50
Case Study: Predictive Value of Perfusion Imaging	5/17/2007	13	13 (100%)	.75

Case Study: Nuclear Imaging Pre- and Post-PTCA	4/25/2007	7	7 (100%)	.50
Case Study: Dilated vs. Ischemic Cardiomyopathy	4/25/2007	11	11 (100%)	.75
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The Role of Myocardial Perfusion Imaging in Patients with Congestive Heart Failure	4/5/2007	42	42 (100%)	2.25
Pharmacologic Stress Myocardial Perfusion Imaging	4/5/2007	44	44 (100%)	2.25
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Sensitivity and Specificity	2/12/2007	6	6 (100%)	.50
Isotope Basics	2/12/2007	8	8 (100%)	.50
Principles of Quantitative Imaging	2/12/2007	13	13 (100%)	.75
Pretest: Nuclear Cardiology	2/12/2007	12	12 (100%)	.75

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#100  
Vienna VA 22180

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