



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
Total Hours of Training:		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

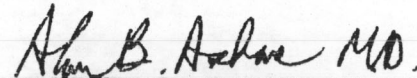
Mathematics Pertaining to the Use and Measurement of Radioactivity

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 30th, 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

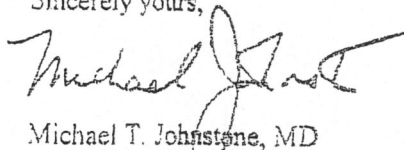
Nuclear Cardiology Hours

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>
TOTAL			1261 hours

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
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

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.

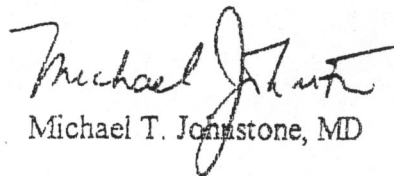
Assistant Professor of Medicine
Harvard Medical School

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

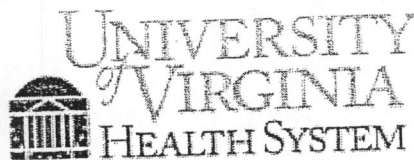
Reviewed by **Jeffrey Shanes, MD**, Clinical Associate Professor of Medicine, Rosalind Franklin University of Medicine and Science, Chicago, IL
Christine Young, MD, Clinical Editor
Nancy Otto, PharmD, Senior Clinical Editor, Pri-Med Institute

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.



The SCHOOL of MEDICINE
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A web-based education program in cardiovascular medicine

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April 25, 2007

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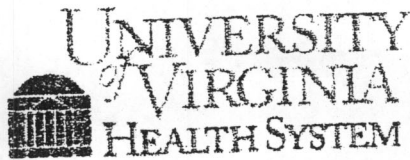
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A handwritten signature in cursive script, appearing to read "Jann Balmer".

Jann Balmer, RN, PhD
CME Faculty Coordinator

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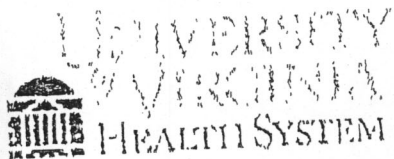

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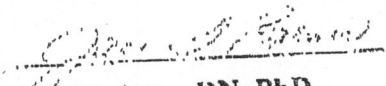
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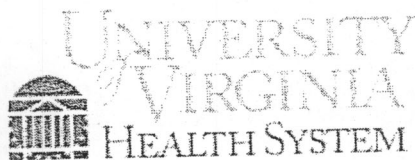
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CME Faculty Coordinator

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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).	
view / print Date: 4/25/2007 CME credit:	10.00
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:	[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

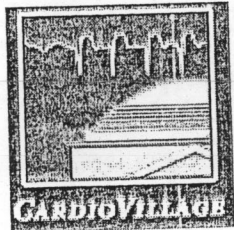
About CME Registration

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

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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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view / print Date: 4/25/2007 CME credit:	10.00
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
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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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Michael P. Notarianni, MD
130 Park Street, SE
#100
Vienna VA 22180

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Richmond, VA 23233-1463

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Sandra Whitley Ryals, Director

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