

JAMES CLIFFORD, M.D.
CARDIOLOGY & INTERNAL MEDICINE
255 WEST SPRING VALLEY AVE
MAYWOOD, NJ 07607
(732) 996-0055

NMSBZ

July 2, 2007

U.S. Nuclear Regulatory Commission
Region 1
License Assistance Team
475 Allendale Rd
King of Prussia, PA 19406-1415

0303643

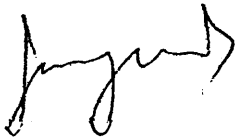
RE: NRC License # 29 – 31003 –01
James Clifford, M.D.

To Whom It May Concern:

We would like to amend our license:

- 1 Please add **Kamran Hamirani, M.D.** as an Authorized User and as the Radiation Safety Officer. His credentials are attached. (ATT 1)
- 2 Please remove **Karan Nejad, M.D.** as the Radiation Safety Officer and Authorized User on this license.

If you need any additional information please contact me.



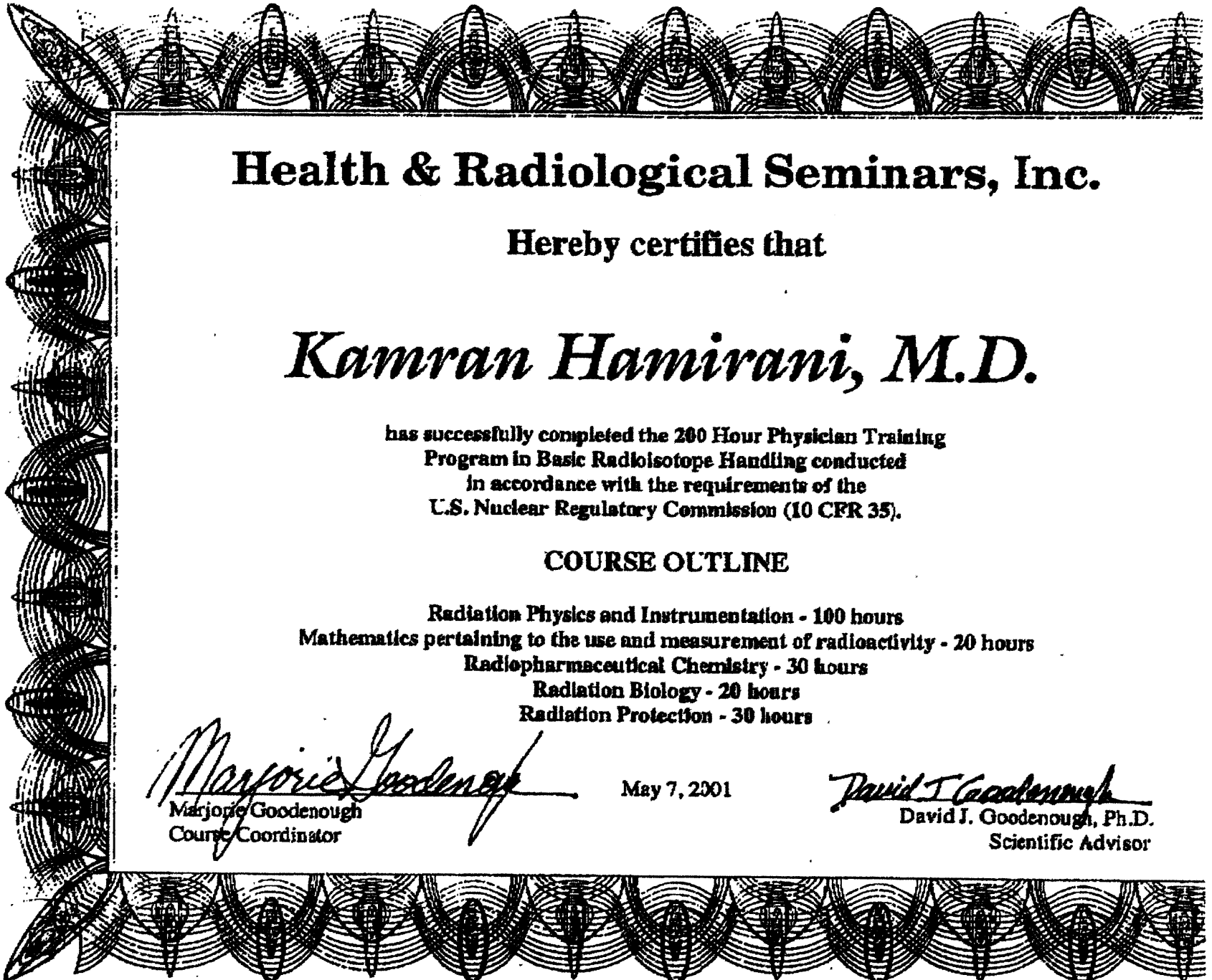
James Clifford, M.D.

2007 JUL -9 PM 1:15
RECEIVED
REGION 1

140787

NMSS/RGN1 MATERIALS-002

ATT 1



Health & Radiological Seminars, Inc.

Hereby certifies that

Kamran Hamirani, M.D.

has successfully completed the 200 Hour Physician Training Program in Basic Radioisotope Handling conducted in accordance with the requirements of the U.S. Nuclear Regulatory Commission (10 CFR 35).

COURSE OUTLINE

- Radiation Physics and Instrumentation - 100 hours
- Mathematics pertaining to the use and measurement of radioactivity - 20 hours
- Radio pharmaceutical Chemistry - 30 hours
- Radiation Biology - 20 hours
- Radiation Protection - 30 hours

Marjorie Goodenough
 Marjorie Goodenough
 Course Coordinator

May 7, 2001

David J. Goodenough
 David J. Goodenough, Ph.D.
 Scientific Advisor

Certification Board of Nuclear Cardiology

Incorporated 1996

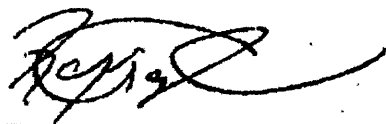
Certifies That

Kamran Ismail Hamirani, MD

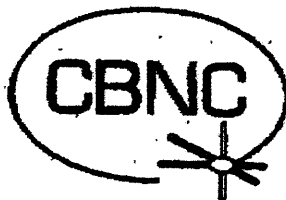
HAVING MET THE REQUIREMENTS PRESCRIBED BY THIS BOARD
FOR PHYSICIANS TRAINED IN THE UNITED STATES
AND HAVING SATISFACTORILY PASSED THE REQUIRED EXAMINATION,
IS HEREBY DESIGNATED

A DIPLOMATE CERTIFIED IN THE SUBSPECIALTY OF
NUCLEAR CARDIOLOGY

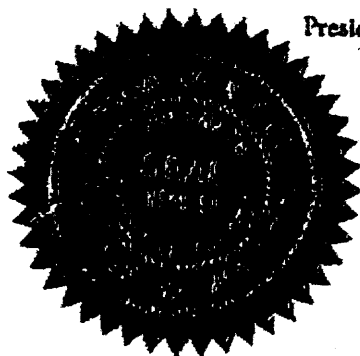
FOR THE PERIOD 2006 - 2016



President



Secretary



CERTIFICATE NUMBER: 4969

Graduate Hospital

One Graduate Plaza
1800 Lombard Street
Philadelphia, Pennsylvania 19146
tel: 215.893.2000

June 30, 2001

U.S. Nuclear Regulatory Commission:

Dear Sir:

This is to certify that Dr. Kamran Hamirani has been under my supervision during his training in the performance of imaging and localizing techniques as related to the field of nuclear cardiology.

Dr Hamirani served in the Graduate Hospital Nuclear laboratory as a trainee for four months. During this period Dr Hamirani accrued more than the required number of hours of training in the clinical practice of nuclear cardiology and has had the appropriate hands on experience in terms of properly handling radioactive isotopes, selection of patients, appropriate dose calculation, administration of radionuclides, and scanning patients using Single Photon Emission Computerized Tomography (SPECT) and planar imaging equipment. His training also included radiation safety, radiopharmacy (including elution of molybdenum/technetium generators, and the preparation of various radiopharmaceuticals from kits), and radiopharmaceutical quality control.

Dr Hamirani has had training in first pass and gated pool studies as well as in myocardial uptake and localization studies and their proper evaluation and interpretation.

Dr Hamirani has completely fulfilled the following NRC requirements:

- A- 200 hours of classroom and laboratory training, given by Health and Radiological Seminars Incorporated (HRSI) in Gaithersburg, MD, that includes:
 - 1- Radiation physics and instrumentation;
 - 2- Radiation protection and biology;
 - 3- Mathematics pertaining to the use and measurement of radioactivity; and
 - 4- Radiopharmaceutical chemistry
- B- 500 hours of supervised work experience under the supervision of an authorized user that includes:
 - 1- Ordering, receiving, and unpacking radioactive materials safely, and performing the related radiation surveys;
 - 2- Calibrating dose calibrators and diagnostic instruments, and performing checks for proper operation of survey meters;
 - 3- Calculating and safely preparing patient doses;
 - 4- Using administrative controls to prevent the misadministration of byproduct material;
 - 5- Using procedures to contain spilled byproduct material safely and using proper decontamination procedures; and
 - 6- Eluting technetium-99m from generator systems, measuring and testing the eluate for Molybdenum-99 and alumina contamination, and processing the eluate with reagent kits to prepare technetium-99m labeled radiopharmaceuticals.

tenet

Graduate Hospital

One Graduate Plaza
1800 Lombard Street
Philadelphia, Pennsylvania 19146
tel: 215.893.2000

- C. 500 hours of supervised clinical experience under the supervision of an authorized user that includes:
- 1- Examining patients and reviewing their case histories to determine their suitability for nuclear cardiology procedures;
 - 2- Selecting the suitable radiopharmaceuticals and calculating and measuring the doses; administering radiopharmaceuticals to patients and using syringe radiation syringes;
 - 3- Collaborating with an authorized user in the interpretation of radioisotope test results; and
 - 4 - Patient follow-up.

Dr Hamirani was directly involved in the following studies:

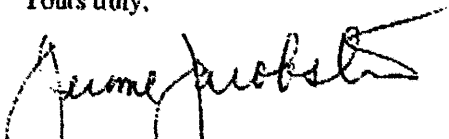
- 1- Rest/Stress Tc-99m myocardial perfusion studies (500 cases)
- 2- Resting Tc-99m gated cardiac wall motion studies (500 cases)
- 3- Multiple Gated Acquisition (MUGA) studies (35 cases)

In summary, I found Dr Hamirani to be an excellent fellow who mastered the clinical material well. I have no hesitation in recommending him for licensure to receive, handle and administer Tc-99m and Tl-201 in conjunction with cardiac nuclear medicine procedures, and for privileges to order monitor and interpret these studies in a clinical setting.

If I can provide any further information regarding Dr. Hamirani's training or performance,

You may contact me at the address below.

Yours truly,



Jerome Jacobstein, MD
Division of Nuclear Medicine
The Graduate Hospital.
1800 Lombard St
Philadelphia, PA 19146
(215) 893-2345

Curriculum vitae
Kamran Ismail Hamrani MD

Email: [REDACTED]

EDUCATION:

- American Board Certified in Interventional Cardiology (2004)
- American Board Certified in Cardiology (2001)
- Board Certified in Echocardiography (2005)
- Board certified in Nuclear Cardiology (2006)
- Certified in Internal Medicine by ABIM (1997)
- Certified by [CCFMG]
- FLEX and USMLE III
- GRADUATION: MBBS degree from Liaquat Medical College (Pakistan), 1990
- COLLEGE: Public college, 1982
- SCHOOL: St. Bonaventure's High, 1980

HONORS/AWARDS:

- CHIEF MEDICAL RESIDENT
- CHIEF CARDIOLOGY FELLOW
- TOP DOC AWARD in UMDNJ (2005)
- Case report presentation in the ACP meeting of 1997. I was 4th out of 26 presenters.
- JUDGE and moderator in the Georgia chapter ACP meeting of 98
- 3rd position in 1st year med. school
- 6th in class in 4th year med. school
- 4th in class in final year med. school
- 1st in the subject of Internal Medicine
- Distinction in Preventive Medicine
- Distinction in Ophthalmology
- Distinction in Anatomy
- Distinction in Biochemistry

WORK EXPERIENCE:

- Assistant Professor of Cardiology and Associate Director Interventional cardiology. (UMDNJ)
- 4th year Interventional Cardiology Fellowship (UMDNJ) Cooper Hospital University Medical Center (7/2002 to 6/2003)
- Pennsylvania Hospital. (UNIVERSITY OF PENNSYLVANIA). 8/2001 to 6/2002
- FELLOWSHIP in Cardiology at MCP HAHNEMANN UNIV. (Graduate Hospital Center)
- CHIEF MEDICAL RESIDENT (PGY 1) at Morehouse School of Medicine Atlanta. July 97- June 98.
- Three year residency in Internal Medicine at Morehouse School of Medicine. July 94-June 97
- Applying for residency in USA. Nov 93 to Jun 94
- Two year residency in Medicine/Physiology at Liaquat Medical College. Oct 91- Oct 93
- Six months internship in Medicine at Liaquat Medical College. Aug 1990-Feb 1991
- Six months internship in surgery at Liaquat Medical College. Feb 1991- Aug 1991

(1)

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

CONTRACTOR VITALS
Kamran Hamirani MD

RESEARCH:

- Prevention of hospitalization of patients with CHF. The abstract was published in the **Canadian Journal of Cardiology**.
- Targeting physician behavior in the management of **Hypercholesterolemia**. The abstract was presented at the twelfth **International Interdisciplinary Conference on Hypertension in Blacks**.
- Outcomes in percutaneous **PFO closure**.
- Sub investigator in the **TIMI 37 TRIAL**
- Sub investigator in the **SHINE TRIAL**

PUBLICATIONS:

- **"INCREASED FREQUENCY OF HOSPITALIZATION IN CONGESTIVE HEART FAILURE"**
CANADIAN JOURNAL OF CARDIOLOGY, Vol 13 suppl
8 June 1997
Elizabeth Ofili, Ernest Mensah, Kamran Hamirani, Stefanie Salim et al
- **"RISK FACTORS FOR FREQUENT HEART FAILURE HOSPITALIZATIONS IN AFRICAN AMERICANS: GENDER DIFFERENCES AND PRACTICAL IMPLICATIONS"**
CIRCULATION, Vol 98 no. 17 oct 27 98. This abstract was presented in the 71 scientific sessions of AHA held in Dallas TX. Complete article of the above study was published in the May issue of **American Journal of Cardiology**, 1999; 83: 1350-1355
Elizabeth Ofili MD, Ernest Mensah PhD, Kamran Hamirani et al.
- **Multiple Aortic Thrombi associated with Protein C and S deficiency**, Anekwe Onwulanyi MD, Robert Paris MD, Kamran Hamirani MD et al. **MAYO CLINIC PROCEEDINGS**, 2001; 76:319
- **Idiopathic verapamil responsive ventricular tachycardia**.
(Cardiology fellows forum)
- **PFO Closure in the Cardiac Catheterization Lab: 6 month clinical outcomes and comparison of the sizing modalities**, CCI May 2003.
Kamran Hamirani, Elias Ilies, Aji Janah
- **PFO Closure in the Cardiac Catheterization Lab: Impact of hypercoagulable states on clinical outcomes**, CCI May 2003
- **Mechanical fragmentation of pulmonary embolism**, Abstract
(CHEST Oct. 2003)
- **Anterior ST elevation with pure RV infarct**. (Under review)
- **Severe Chronic Aortic Insufficiency Requiring Valve Replacement: An Infrequent Complication of Takayasu's Disease**, **ECHOCARDIOGRAPHY**, Volume 23, July 2006
- **Sudden Cardiac Death in a Young Man with Takotsubo Cardiomyopathy**, **International Journal of Angiology**, Volume 15, Number 2 (2006)

KAMRAN HAMIRANI MD

PRESENTATIONS:

- " BARI TRIAL "
- " Aortic Thrombo-emboli "
- " Renal Artery Stenosis "
- " Acute and chronic mitral regurgitation "
- " Stroke Prevention in Atrial Fibrillation " TRIAL
- " Outcomes in patients with acute non q wave myocardial infarction randomly assigned to an invasive as compared with a conservative management strategy "
- Coronary artery stenting compared with balloon angioplasty for Restenosis after initial balloon angioplasty "
- " vasovagal pacemaker study "
- " Tolerability and efficacy of carvedilol in patients with NYHA Class IV Heart Failure "

PROCEDURES:

- Cardiac catheterizations → approx 5000
- Coronary interventions → > 2000. > 500 in last 18 months.
- TEE → approx 150
- Nuclear Medicine → All the requirement for nuclear license met

COMMITTEE MEMBERSHIPS:

(Current)

- Utilization review committee
- Cardiac services committee
- Invasive and other procedures committee
- Cardiac cath lab quality assurance committee
- Fellow of the American College of Cardiology.
- Member of the Council in Clinical Cardiology activities at the AHA

(Previous)

- Member of residency review committee
- Member of the Graduate education committee
- Member of the subcommittee of GME for policy and procedures development

LICENSE:

- Georgia, NY, NJ, and Pennsylvania.
- Texas (applied)

VISA STATUS:



(3)

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

State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Board of Medical Examiners

HAS REGISTERED

KARIM Y. HAMIRANI



FOR PRACTICE IN NEW JERSEY AS A(n): Medical Doctor

PLEASE DETACH HERE
IF YOUR LICENSE/REGISTRATION
CERTIFICATE IS LOST
PLEASE NOTIFY:
Board of Medical Examiners
P.O. Box 189
Trenton, NJ 08646

06/02/2008 TO 06/02/2007
VALID

25MA0748300
LICENSE/REGISTRATION CERTIFICATION #

Karim Y. Hamirani
Signature of Licensee/Registration Certificate Holder

Jeffrey Bernstein
ACTING DIRECTOR

PLEASE DETACH HERE

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

P. P

FAX HP LASERJET HP 40 unC 2007 06 04 16:09 12019960584

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

7/2/2007, and to inform you that the initial processing which includes an administrative review has been performed.

Amend. 29-3103-01 There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 140787.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

Sincerely,
Licensing Assistance Team Leader