



UPMC | University of Pittsburgh
Medical Center

UPMC Presbyterian Shadyside

June 22, 2006

U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406

P-6

UPMC Presbyterian
200 Lothrop Street
Pittsburgh, PA 15213

UPMC Shadyside
5230 Centre Avenue
Pittsburgh, PA 15232

RE: 10 CFR 35.14 notification letter, License No. 37-02523-01

03003021

Dear Madams/Sirs:

Please consider the attached information in support of the notification under 10 CFR 35.14 for the following authorized user addition to License 37-02523-01. Supporting documentation is enclosed.

Item 12 B, Authorized Users

Please add:

- 1 **Ashok Muthukrishnan, M.D.** for byproduct material identified in 10 CFR 35.100, 10 CFR 35.200 and 10 CFR 35.300.

Dr. Muthukrishnan is certified in Nuclear Medicine by the American Board of Nuclear Medicine. Documentation is enclosed. Dr. Muthukrishnan has been named as authorized for use of diagnostic and therapeutic radionuclides encompassing these activities and sources on the University of Pittsburgh radioactive materials license (RSO authorization and preceptor enclosed). Also enclosed is affidavit of approval by James Terwilliger, Vice President UPMC Presbyterian Shadyside.

Should you have any questions regarding this request, please contact me at (412) 623-1052. Thank You.

Sincerely,

Ronald Scala, MS
Radiation Safety Officer
UPMC Presbyterian Shadyside Hospital
License No. 37-02523-01

enclosures

cc: RSC file

2006 JUN -5 AM 7:49
RECEIVED
REGION I

Scala, Ronald

From: Reeder, Kathy on behalf of Terwilliger, James

Sent: Wednesday, June 28, 2006 11:37 AM

To: Scala, Ronald

Cc: Terwilliger, James

Subject: Approval

I approve Dr. Ashok Muthukrishnan for human uses of radioactive material and radiation sources.

06/28/2006

The American Board of Nuclear Medicine

Incorporated 1971

Certifies that

Ashok Muthukrishnan

has met the requirements of this Board and is qualified during the period of 2005 through 2015 to practice as a Specialist in all aspects of Clinical and Laboratory

Nuclear Medicine

including but not limited to Radiobioassay, Nuclear Imaging, In Vivo Measurements & Therapy with Unsealed Radionuclides

Tom R. Miller
Chairman

J. Anthony Parker
Secretary-Treasurer

07526

Number
United States

**UNIVERSITY OF PITTSBURGH
 AUTHORIZED USER CERTIFICATION FOR HUMAN USES OF RADIOACTIVE
 MATERIAL AND RADIATION SOURCES
 NRC License No. 37-00245-02 and PA License No. PA-190**

- New Application
- Renewal

1. PHYSICIAN IDENTIFICATION

Name: ASHOK MUTHUKRISHNAN Degree: MD, MS
 Department: Nuclear Medicine, Radiology Title: Asst. Professor
 Office Location: Room PUH E-177 Building: UPMC Presbyterian
 Office Phone: (412) 647-0104 E-mail: muthukrishnana@upmc.edu

2. TRAINING AND EXPERIENCE WITH RADIONUCLIDES AND RADIATION SOURCES

Submit the following information in support of the qualification requirements for the human use of radioactive material and radiation sources (Required for new applicants only):

- A. Current copy of Curriculum Vitae
- B. Copy of applicable Medical Board Certification(s)
- C. Preceptor/Attestation Statement of physician's classroom, laboratory, and clinical training and experience with radioactive material, signed by the supervising Authorized User (NRC Form 313A).

List recent clinical experience in the use of radionuclides and/or radiation sources for diagnostic and therapeutic procedures (Required for all applicants):

Type of Use	Location	Dates
- Diagnosis (F18-FDG)	UPMC Presbyterian	July 1, 05 till date
- Diagnostic & therapy I-131	UAB Univ. of Alabama	July 2003 - July 2005 ^{6th}
- Diagnostic (Tc-99m)	UAB Univ. of Alabama	July 2003 - July 2005
- Y-90 zevalin (therapy)	UAB Univ. of Alabama	July 2003 - July 2005

3. AUTHORIZED USES

List the types of medical use for which specific authorization is requested:

- A. Radioactive material for diagnostic human use involving uptake, dilution, and excretion studies (10 CFR 35.100)
- B. Radioactive material for diagnostic human use involving imaging and localization studies (10 CFR 35.200)
- C. Radioactive material for diagnostic and therapeutic use in humans for which a written directive is required (10 CFR 35.300)
- D. Y-90 TheraSpheres, Y-90 SIR-Spheres (10 CFR 35.1000)
- E. _____
- F. _____

4. CONDITIONS ON THE USE OF RADIONUCLIDES AND RADIATION SOURCES

- A. This authorization is limited to the use of radionuclides and radiation sources approved under the UPMC Nuclear Medicine Joint Authorization.
- B. All policies, procedures, and conditions contained in the currently approved UPMC Nuclear Medicine Joint Authorization application must be followed.
- C. Physician must complete internal training and instruction requirements for the use of Y-90 TheraSpheres and Y-90 SIR-Spheres.

NRC FORM 313A
(10-2005)

U.S. NUCLEAR REGULATORY COMMISSION

MEDICAL USE TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

10. SUPERVISING INDIVIDUAL -- IDENTIFICATION AND QUALIFICATIONS

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

A. Name of Supervisor

JAMES M. MOUNTZ, MD, PhD

B. Supervisor is:

Authorized User

Authorized Medical Physicist

Radiation Safety Officer

Authorized Nuclear Pharmacist

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

for medical uses in Part 35, Section(s) 35.100, 25.200, 35.300

D. Address

UPMC Presbyterian
200 Lothrop St.
P. Hsbuish, PA 15213

E. Materials License Number

37-00245-02

PART II -- PRECEPTOR ATTESTATION

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

I attest the individual named in Item 1:

11a.

has satisfactorily completed the requirements in Part 35, Section(s) and Paragraph(s) 390 as documented in section(s) _____ of this form.

11b. Select one

meets the requirements in 35.50(a) 35.51(c) 35.390(b)(1)(ii)(G) 35.690(c) for _____ types of use, as documented in section(s) _____ of this form.

N/A

11c.

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

has achieved a level of competency sufficient to function independently as an authorized User for 35.100, 200, 300 uses (or units); **OR**

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

N/A

11d.

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

I meet the requirements of 35.390 section(s) of 10 CFR Part 35

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

for the following byproduct material uses (or units): 35.100, 200, 300

A. Address

B. Materials License Number

JAMES MOUNTZ MD PhD

James Mountz MD PhD

6-20-06

C. NAME OF PRECEPTOR (print clearly)

D. SIGNATURE - PRECEPTOR

E. DATE

Ashok Muthukrishnan, MD, MS

200 Lothrop St
Department of Radiology,
University of Pittsburgh Medical center
Pittsburgh, PA 15213
☎ 412-329-4286
muthukrishnana@upmc.edu

BIOGRAPHICAL

NAME: Ashok Muthukrishnan [REDACTED]
Home Address: [REDACTED]
Home Phone: [REDACTED]
Business Address: 200 Lothrop Street E-mail: muthukrishnana@upmc.edu
Pittsburgh, PA 15213
Business Phone: 412-647-0104

EDUCATION AND TRAINING

GRADUATE

August 1989 - December 1993

Medical education and training- Chingleput Medial College, The Tamilnadu Dr.MGR Medical University, Madras INDIA

January 1994 - January 1995

Internship, Chingleput Medial College Hospital, The Tamilnadu Dr.MGR Medical University, Madras INDIA

POSTGRADUATE

January 1995 - December 1997

Postgraduate training in Internal Medicine, Stanley Medical College & Hospital, Chennai 600 001 INDIA.

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

January 1998 - July 2000

Postgraduate training in nuclear medicine – Dept. of Nuclear Medicine, Christian Medical College & Hospital, Vellore 632004 INDIA

August 2001- June 2003

Master of Science Health Informatics (Health Information Management), Dept. of Health Services Administration, School of Health Related Professions, University of Alabama at Birmingham, AL 35294 USA

July 2003 – July 2005

Post graduate training in Nuclear Medicine, University of Alabama at Birmingham Medical Center/ Birmingham Veteran Affairs Hospital, Birmingham, AL 35249 USA

July 2005 – July 2006

Clinical Fellowship in P.E.T./ Nuclear medicine, Department of Radiology, University of Pittsburgh medical center, Pittsburgh, PA 15213 USA

APPOINTMENTS

August 2000 - August 2001

Nuclear medicine Physician- Dept. of Nuclear Medicine, Govt. General Hospital, Pondicherry 605001 INDIA.

CERTIFICATIONS AND LICENSURE

SPECIALTY CERTIFICATION**Certifying Board****Year**

American Board of Nuclear Medicine
(ABNM, certification # 07526)
ECFMG/USMLE

2005 valid until 2015
1996 indefinitely valid

MEDICAL LICENSURE:**Country/State****License #****Year**

Michigan (unrestricted)
Pennsylvania (unrestricted)
India (unrestricted)

4301086679
MD428793
55552

2005
2006
1995