

**Essex Cardiology Group
769 Northfield Avenue - Suite 130
West Orange, New Jersey 07052**

**Dennis Lawyer
U.S. Nuclear Regulatory Commission, Region I
Licensing Assistance Section
Nuclear Materials Safety Branch
475 Allendale Road
King of Prussia, Pa. 19406-1415**

MS 16
J-6

Re : Notification for NRC License # 29-3127001
Control Number: 143604

April 8, 2009

03037543

Dear Mr. Lawyer:

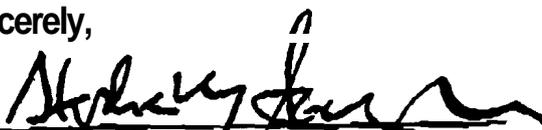
Per p u r telephone conversation on 7 April 2009, with our consulting physicist, Elaine Rovazzi, M.S. We wish to confirm that Sargis A. Khooblar, M.D is working as an authorized user (35.200 Cardiovascular imaging only) for Essex Cardiology Group, 769 Northfield Avenue, Suite 130, West Orange, NJ under the supervision of authorized user Stephen Verdesca, M.D.

- 1) **Add** Sargis A. Khooblar, M.D. as authorized user for 35.200 cardiovascular imaging. Enclosed for your review:
 - a) Curriculum Vitae for Sargis A. Khooblar, M.D.
 - b) CBNC Certification Board of Nuclear Cardiology letter dated February 2009.
 - c) NRC Preceptorship attestation (AU 313A) signed by authorized user Stephen Verdesca, M.D.

- 2) **Delete** Stephen Verdesca M.D. as authorized user and radiation safety officer upon the approval of Dr. Khooblar for both an Authorized user and RSO position.

Thank you in advance for your cooperation. We look forward to receiving our amended license. Please contact Elaine Rovazzi, M.S., DABR @ 973-322-5178 if you need additional information

Sincerely,


Stephen Levy, M.D.
Management, Essex Cardiology Group


Stephen Verdesca M.D.
Authorized User / RSO Essex Cardiology Group

143604

APR 09 2009 12:02 PM

NRC FORM 313A (AUP)
(10-2007)

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)

By checking the boxes below, the preceptor is attesting that the individual has knowledge to fulfill the duties of the position sought and not attesting to the individual's "general clinical competency."

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 Sargis A. Khoobial M.D. 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 33.100 and 36.200.

OR

Training and Experience

I attest that _____ 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	Signature	Telephone Number	Date
Stephen Vandesca M.D.	<i>[Signature]</i>	973-292-1020	4-9-09
License/Permit Number/Facility Name			
Essex Cardiology Group 29-3127601			

NO. 741 P. 3
APR 9 2009

ESSEX CARDIOLOGY
APR 8 2009 3:38PM

**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 OMB: NO. 315091
EXPIRES: 10/31/2008

Name of Proposed Authorized User
Sargis A. Khoobiar M.D.

State or Territory Where Licensed
New Jersey

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 35.290 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)

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			
Radiation protection			
Mathematics pertaining to the use and measurement of radioactivity			
Chemistry of byproduct material for medical use (not required for 35.590)			
Radiation biology			
Total Hours of Training:			

**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:	
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		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Performing quality control procedures on instruments used to determine the activity of dosages and performing checks for proper operation of survey meters		<input type="checkbox"/> Yes <input type="checkbox"/> No	

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		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Using administrative controls to prevent a medical event involving the use of unsealed byproduct material		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Using procedures to contain spilled byproduct material safely and using proper decontamination procedures		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Administering dosages of radioactive drugs to patients or human research subjects		<input type="checkbox"/> Yes <input type="checkbox"/> No	
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		<input type="checkbox"/> Yes <input type="checkbox"/> No	

Supervising Individual _____ License/Permit Number listing supervising individual as an authorized user _____

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

35.190 35.290 35.390 35.390 + generator **experience** in 35.290(c)(1)(ii)(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.

Certification Board of Nuclear Cardiology

Incorporated 1996

Certifies that

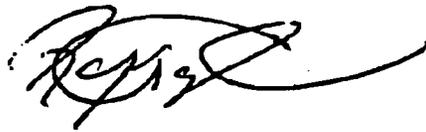
Sargis A. Khoobiar, MD

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

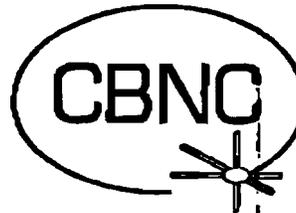
A DIPLOMATE CERTIFIED IN THE SUBSPECIALTY OF

NUCLEAR CARDIOLOGY

FOR THE PERIOD 2008 - 2018

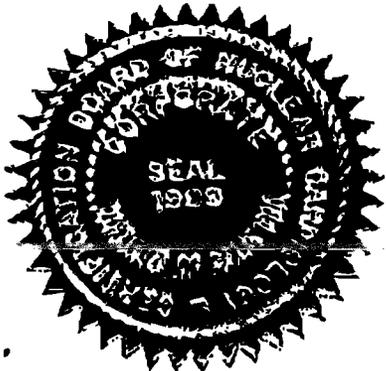


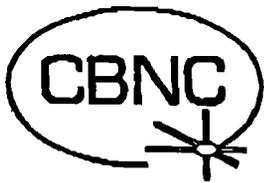
President



Secretary

CERTIFICATE NUMBER: 6318





CERTIFICATION BOARD OF NUCLEAR CARDIOLOGY

101 LAKEFOREST BOULEVARD • SUITE 401 • GAITHERSBURG, MARYLAND 20877
TEL: +240.631.8151 • FAX: +240.631.8152 • ADMINISTRATION@CBNC.ORG • WWW.CBNC.ORG

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EXECUTIVE DIRECTOR

February 2009

Sargis A. Khoobiar, MD
101 Appleton Way
Whippany, NJ 07981

Eligibility ID No. NC8512

Dear Dr. Khoobiar:

We are pleased to inform you that the Board of Directors of the Certification Board of Nuclear Cardiology (CBNC) has determined that your score on the certification examination of December 2008 meets the standards the Board has established for certification in nuclear cardiology. Congratulations on your achievement!

A passing score of 123 questions correct was determined by an independent panel of peers, representing the disciplines involved in the practice of nuclear cardiology, drawn from both private practice and academia.

The number of questions you answered correctly was 144. The enclosed diagnostic report shows the number of correct answers you had for each of the content areas.

As of now, you have "testamur" status. Please be aware that this status has no real standing; however, once we have documentation that you have passed your Cardiology, Nuclear Medicine or Radiology boards we will change your status to Diplomate. You will receive your certificate at that time and will then be listed in the roster of Diplomates on the CBNC Website. Please remember that you must provide CBNC with documentation of your successful board within 2 years of passing the CBNC examination, and that your certification period will date from 2008.

It is important for a future mailing that you keep the CBNC headquarters office informed of any address changes so that we mail your certificate to the correct address when your status changes.

On behalf of the Board of Directors, I wish to thank you for your participation in the CBNC examination. Again, congratulations on your success.

Sincerely,

Robert J. Gropler, M.D.
President

Enclosures

Curriculum Vitae
Sargis A. Khoobiar, M.D.

PERSONAL INFORMATION:

Place of Birth: Ridgewood, New Jersey
Citizenship: USA
Date of Birth: February 18, 1975

Home Address: 28 Lawrence Road
Madison, New Jersey 07940

Professional Address: Essex Cardiology Group, P.C.
769 Northfield Road
Suite 130
West Orange, New Jersey 07052

Office Telephone Number: (973) 736-9557
Office Fax Number: (973) 736-9757

Email Address: sak4@cornell.edu

EDUCATION:

St George's University School of Medicine – 1997-2001
St. George's, Grenada, West Indies
M.D. GPA: 3.75 (4.0 during clinical rotations)
Dean's List '97-'01 Ranked 53rd of 196

Cornell University – 1993-1997
Ithaca, New York
Bachelor of Science and Engineering, Chemical Engineering

POSTDOCTORAL TRAINING:

Newark Beth Israel Medical Center Cardiology Fellowship Program – 7/05-6/08
Newark Beth Israel Medical Center, Newark, New Jersey
Marc Cohen, Program Director
Level II training in Cardiac Catheterization, Cardiac Computed Tomography,
Echocardiography (including TEE and stress echo) and Nuclear Cardiology

Morristown Memorial Hospital Internal Medicine Residency – 7/01-6/05
Morristown Memorial Hospital, Morristown, New Jersey

LICENSURE AND CERTIFICATIONS:

Diplomate of the ABIM in Cardiovascular Disease: 2008-2018

Diplomate of the Certification Board of Nuclear Cardiology: 2008
Diplomate of the National Board of Echocardiography: 2008
New Jersey Medical License – 11/04 – Present (Number available upon request)
Diplomate of the ABIM in Internal Medicine: 2004-2014
USMLE Step I: June, 1999 – 224/89
USMLE Step II: August, 2000 – 222/87
USMLE Step III: May, 2003 – 240/97
ACLS – 6/2010
BLS – 6/2010
Certified EMT-Intermediate provider 1993-1998

PROFESSIONAL SOCIETIES:

American College of Cardiology – Associate member
American Society of Nuclear Cardiology – Member
American Society of Echocardiography – Member
American College of Physicians – Associate member

HONORS & AWARDS:

New Jersey Medical School Golden Apple Award Nominee, 2001-2002
For outstanding teaching as a resident

Iota Epsilon Alpha Honor Medical Society, St George's University, 1998-2001
For medical students maintaining a GPA of 3.5 or higher

W.G. Maguire Scholarship, Cornell University, 1993-1997
Awarded by Panhandle Eastern Corporation to 15 of 300 students for merit.

Women of Smoke Rise Scholarship, Cornell University, 1993-1997
For exceptional academic merit and community service.

WORK EXPERIENCE

Essex Cardiology Group, P.C., 8/2008 – Present
Practicing clinical cardiology, nuclear cardiology, echocardiography, invasive cardiology and preventive cardiology

MEMBERSHIPS, OFFICES AND COMMITTEE ASSIGNMENTS:

Attending Staff, 8/2008 – Present
Cardiology Section, Saint Barnabas Medical Center, Livingston, New Jersey
Including teaching rounds and lecture series with internal medicine residents

Associate Staff, 1/2009 – Present
Division of Cardiology, Morristown Memorial Hospital, Morristown, New Jersey

Chief Fellow, 2007-2008
Cardiovascular Fellowship Program, Newark Beth Israel Medical Center

Manage and schedule daily operations and activities of the fellowship program.
Educate both residents and medical students.

Grand Rounds Coordinator, 2005-present

Division of Cardiology, Newark Beth Israel Medical Center

Manage, obtain funding and schedule monthly Grand Rounds for the division.
Select speakers and assess division educational needs.

Chief Resident, 2004-2005

Department of Internal Medicine, Morristown Memorial Hospital

Managed daily activities of the residency program. Educated residents and medical students. Scheduled all aspects of the residency program. Acted as a junior attending in the management of the service team,

Atlantic Health System Residents Council, 2003-2005

Addressed and improved residents' issues concerning quality of education and employment

Morristown Memorial Hospital Medical Education Committee, 2001-2005

Formulated policy to further residents' educational experiences

Procedure Taskforce

Provided comprehensive education program for competency in ABIM required procedures

Milestone and Evaluation Task Force

Set appropriate milestones for advancement and evaluation structure

St George's University Emergency Medicine Club:

President, June 1998 – December 1998

Organized lectures, hands-on workshops for medical students and fund raising events for local charities

Vice President, January 1998 – June 1998

Procured supplies for workshops and organize fund raising events

Cornell University Emergency Medical Service

Director, June 1996 – June 1997

Represented 120 members and oversaw quality of care, advised and directed all squad meetings, participated in county EMS advisory board as squad delegate, and acted as liaison to surrounding agencies

Equipment Officer, June 1995 – June 1996

Responsible for all supplies, property and major purchases, in addition to Executive Board seat

Crew Chief, August 1993 – June 1997

Certified EMT-Intermediate provider, responsible for patient care and on the job training.

PUBLICATIONS AND SUBMISSIONS:

Khoobiar SA, Cohen M, Mejevoi N, et al. "Primary percutaneous coronary intervention for ST-elevation myocardial infarction using an intravenous and subcutaneous enoxaparin low molecular weight heparin regimen." *J Thromb Thrombolysis* 2008 Oct;26(2):85-90.

Nalmas S, Bishburg E, Meurillio J, Khoobiar SA, Cohen M. "Prosthetic aortic valve endocarditis and aortic root abscess caused by *staphylococcus capitis*; a report of two cases and review of the literature." *Heart Lung J* 2008 Sep-Oct;37(5):380-4.

Khoobiar SA, Orlando J, VanHise A and Cohen M "Interatrial Thrombus-in-Transit Resulting in Paradoxical Thromboembolism" submitted to *Lancet*

Setty S, Jarreau TK, Khoobiar SA, Cohen M, Chen C "Zero Calcium Score does Not Exclude Significant Coronary Stenosis : Incremental Value of 64-slice Cardiac Computed Tomography over Calcium Scan" *Circulation* 2007;116:II_408

Jarreau T, Khoobiar S, et al. "Incidence of Significant Coronary Artery Disease with Zero Calcium Score in a Diverse Patient Population with Clinical Suspicion of Ischemic Heart Disease Incremental Value of 64-slice CT Coronary Angiography over Calcium Scan." *Journal of Cardiovascular Computed Tomography* 2007; 1(1): S23

Khoobiar S, Winters S, et al. "Inaccuracy of Automated Electrogram Amplitude Measurements in Implantable Cardioverter-Defibrillators." *Circulation*. 2007; 115(21): e557

RESEARCH EXPERIENCE:

Blinded Clinician for patient assessment and NYHA Classification for "Evaluation of the Safety and Efficacy of the OPTIMIZER™ System With Active Fixation Leads in Subjects with Heart Failure Resulting from Systolic Dysfunction: FIX-HF-5." 2005-Present

Research assistant under R. Zappulla, M.D., Ph.D. Through volunteer externship investigated single unit recordings at the New Jersey Neuroscience Institute, affiliate of Seton Hall University. Designed recording schema and aided development of research design. Research currently ongoing. 1998-1999

Research assistant under J. Jachowicz, Ph.D. Investigated polymers and their effects for use in personal care products at International Specialty Products, Inc. Proprietary results presented to corporate research and development committee. 1996

PRESENTATIONS:

Setty S, Jarreau TK, Khoobiar SA, Cohen M, Chen C "Zero Calcium Score does Not Exclude Significant Coronary Stenosis : Incremental Value of 64-slice Cardiac Computed Tomography over Calcium Scan" American Heart Association Scientific Sessions 2007 Orlando, FL, Nov 4-7, 2007

Jarreau TK, Khoobiar SA, et al. "Incidence Of Significant Coronary Artery Disease With Zero Calcium Scores In A Diverse Patient Population With A Clinical Suspicion Of Ischemic Heart Disease: Incremental Value Of 64-Slice Ct Coronary Angiography Over Calcium Scan" 13th World Congress on Heart Disease, International Academy of Cardiology, Annual Scientific Session 2007, Vancouver, BC, Canada July 31, 2007

Khoobiar S, et al. "Inaccuracy of Automated Electrogram Amplitude Measurements in Implantable Cardioverter-Defibrillators." The American Heart Association 8th Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke. May 9-11, 2007 Washington, DC.

"Dependence on Automated Electrogram Amplitude Measurements from Implanted Cardioverter Defibrillators May Lead to Unnecessary Risk" Poster presentation, Atlantic Health Research Day, June 2005; Oral presentation, Cath Lab Conference, June 2005.

"Stress Test Basics for the Internist" Resident Noon Conference, 2007, Ambulatory Morning Report, October 2004

"Aortic Valve Disease: A Case Presentation" 3rd Annual St. Barnabas Progress in the Treatment of Cardiovascular Disease Symposium, Long Branch, NJ, 2006

"Aortic Endocarditis: A Case Presentation" 2nd Annual St. Barnabas Progress in the Treatment of Cardiovascular Disease Symposium, Red Bank, NJ, 2005

"Arrhythmogenic Right Ventricular Dysplasia - A Case study" Medical Grand Rounds, Morristown Memorial Hospital, February 2004.

"Wide Complex Tachycardias - Diagnosis and Misconceptions" Emergency Medicine/Internal Medicine Joint Morning Report, August 2003

"Screening Practices for Seniors and Understanding Medical Imaging" Senior Citizen Lecture Series, August 2003

"ICD Indications - The Implications of MADIT II" Ambulatory Morning Report, October 2002

OUTSIDE INTERESTS:

Sailing - Cornell University Sailing Team, Big Boat Team - won national big boat regatta 1994. Head sailing instructor at Smoke Rise Lake - 1990-1994

Golf

Photography

Source: www.CBNC.org website on February 18, 2009

Certification by the CBNC recognizes those physicians who have demonstrated knowledge skills in the field of Nuclear Cardiology by successfully passing a comprehensive written examination administered by the CBNC. To date, there are 6,068 physicians certified by the CBNC.

If you passed the exam and were testamur status, you need to provide documentation that you have passed your Cardiology, Nuclear Medicine or Radiology examination before your certificate will be mailed and your name listed in the roster of Diplomates.

All Diplomates certified in 1996 have indefinite certification. Beginning in 1997, certification is for a ten-year period with re-certification required by December 31, ten years following initial certification for those wishing to maintain Diplomate status with the CBNC.

The following records match your search criteria:

Name / Location	Info
Dr. Sargis Khoobiar West Orange, NJ UNITED STATES	Certificate Number: 6318 Certified in Nuclear Cardiology on 12/06/2008 Dr. Khoobii's certification is valid until 12/31/2018.

SEARCH AGAIN

NOTE: For questions or further clarification, call the CBNC office at: 240.631.8151.

CERTIFICATION BOARD OF NUCLEAR CARDIOLOGY
101 Lakewood Boulevard, Suite 401, Gaithersburg MD 20877 • (T): 240.631.8151 • (F): 240.631.8152