CURRICULUM VITAE

for

Gregory S. Hodges, Ph.D. DABR

Personal Information

Contact Information:

11325 Random Hills Road, Suite 360
Fairfax, VA 22030
cell# 540-355-8206
fax# 703-225-3333
www.diagphysservices.com
gshodges@verizon.net

Education

Ph.D., University of Toledo, Dec. 2005
(atomic physics, w. concentration in medical physics)

M.S., University of Toledo, May 2001
(atomic physics)

B.S., Ohio Northern University, May 1997
(physics/computer science dual major, math minor)

Training/Residencies/Certifications

Radiation Safety Officer at LewisGale Medical Center, Salem VA (RML# 161-126-1)
VA RAM License provisions: 12VAC5-481-1900, 1920, 1950, 2010 & 2040
(Federal equivalent: 10 CFR 35.100, 200, 300, 400 & 600)

Board Certification: American Board of Radiology (Diagnostic Medical Physics 2012)

Certification for shipping RAM (US-DOT)

State Registered Radiation Expert (Tennessee):
X-ray, Shielding Design, Film/Screen Mammography, Digital Mammography

State Registered Radiation Expert (Virginia):
X-ray, Shielding Design, Film/Screen Mammography, Digital Mammography

State Registered Radiation Expert (West Virginia):
X-ray, Shielding Design, Film/Screen Mammography, Digital Mammography

Diagnostic Medical Physics Residency Program Fellow, July 2006 – July 2008
University of Alabama at Birmingham, Department of Radiology
(Has since become a CAMPEP-approved residency)

Employment History

Jan. 2014 – current	Diagnostic Medical Physicist, Founding Business Member Diagnostic Physics Services LLC
Sept. 2008 – Dec. 2013	Consultant Health Physicist/Diagnostic Medical Physicist, Physics Associates, LLC (served as hospital RSO since February 2013)
July 2006 – Aug. 2008	Post-Doc/Physics Fellow, University of Alabama at Birmingham Dept. of Radiology (Physics Section)
June 2005 – June 2006	Research Assistant, Medical University of Ohio at Toledo Dept. of Radiology (Medical Physics)
Sept. 2005 – May 2006	Adjunct Faculty, University of Findlay Dept. of Physics
Sept. 2005 – Dec. 2005	Adjunct Faculty, University of Findlay Dept. of Mathematics
Jan. 1998 – May 2005	Teaching Assistant, University of Toledo Dept. of Physics & Astronomy (received Outstanding Teaching Assistant Award)
Jan. 2003 – May 2003	Instructor, Mercy Medical College (taught Radiation Biology for medical technologists)
Sept. 1997 – Nov. 1997	Teaching Assistant, Ohio University Dept. of Physics & Astronomy
Sept. 1994 – May 1997	Physics Tutor, Ohio Northern University Dept. of Physics
May 1996 – Aug. 1996	Research Assistant, Ohio Northern University Dept. of Mathematics & Computer Science

Honorary & Professional Society Memberships

Society of Nuclear Medicine and Molecular Imaging, 2013

Outstanding Student Honor Society, 2004

Sigma Pi Sigma, University of Toledo Chapter, 2003

American Association of Physicists in Medicine, 2002

Sigma Xi, University of Toledo Chapter, 2000

Society of Physics Students, Ohio Northern University Chapter, 1997
(Charter Member, Vice President)

Skills & Experience

Diagnostic Medical Physics Survey Modalities:
Digital (DR/CR) & Screen/Film Radiography, Analog & Digital Fluoroscopy
Digital & Screen/Film Mammography, Computed Tomography (w. ACR)
Linear Tomography, Magnetic Resonance Imaging (ACR testing)
Ultrasound (ACR testing), Gamma Cameras (NEMA/ACR testing)

Health Physics:
Shielding calculations for diagnostic x-ray and PET facilities,
Health Physicist annual & quarterly audits of nuclear medicine facilities,
administered over radiation badges/monitors for Radiation Safety,
performed annual radiation safety in-services, DOT/Hazmat training,
primary lecturer for 45-hour NMTCB preparatory exam course,
calculated patient and fetal radiation exposures due to misadministration,
performed hot lab decommissions, radioactive material spill cleanup,
Iodine-131 patient release calculations, Xenon-133 airflow calculations,
dose calibrator, well counter, and thyroid probe QC testing,
written amendments and renewals for state & NRC RAM licenses

Computer literacy, in particular:
MS-DOS, IRIX, Linux, Mac OS 9/X, UNIX, Windows 3.1/95/2000/XP

Programming experience in the following languages:
BASIC, C/C++, COBOL, FORTRAN, Pascal, ML, Prolog

Laboratory systems training, in particular:
computer networking, electronics, high voltage safety, ion-beam optics,
programming, radiation safety, vacuum systems,
machine shop techniques and safety

Publications

G Hodges. “Measurements of Total Cross Sections of the n=2 Excitation of Helium from the Impact of 10-25 keV Protons”. Ph.D. Dissertation. University of Toledo. December 2005.

J Thomas, G Hodges, D Seely, N Moroz, T Kvale. “Performance enhancement study of an electrostatic Faraday cup detector”. Nuclear Instruments and Methods on Physics Research Section A. Volume 536, Issue 1-2, Jan 1, 2005. pages 11-21.

G Hodges. “Measurements of Charge-Changing Cross Sections in Collisions of Protons on Helium”. Master's Thesis. University of Toledo, May 2001.

D Hudak, N Baughman, G Hodges. “Aggregates: using design patterns to create implicitly parallel data structures in C++”. Aerospace & Electronics Conference, 1997. NAECON 1997. Proceedings if the IEEE 1997 National Volume 1, 14-17 July 1997 pages 239-246.

Presentations at Conferences & Symposia

“Dose Reduction in Detection of Pulmonary Thrombotic Embolism with Computed Tomography”. Follow-up investigation and future work prospects. Invited talk at University of Cincinnati. 25 January 2010.

“Dose Reduction in Detection of Pulmonary Thrombotic Embolism with Computed Tomography”. Oral Presentation at AAPM Annual Meeting, 2008.

“Dose Reduction in Detection of Pulmonary Thrombotic Embolism with Computed Tomography”. Preliminary results. Southeast Chapter AAPM Annual Scientific Meeting, 2008.

“Observations of Ipsilateral and Increased Motor Gyrus Activity in Functional MRI Study of Learned Fine Motor Tasks”. 4th Annual Neuroscience Research Day at Medical University of Ohio at Toledo, 2005

“Measurements of Total Cross Sections of the n=2 Excitation of Helium from the Impact of 10-25 keV Protons”. Sigma Xi Student Research Symposium, University of Toledo, 2005 (awarded best presentation in research category)

“Measurements of Total Cross Sections of the n=2 Excitation of Helium from the Impact of 10-25 keV Protons”. Ohio Section of the American Physical Society, Spring Meeting, University of Dayton, 2005 (preliminary data results presented)

“Measurements of Energy Distributions of Secondary Emission Electrons”. Sigma Xi Student Research Symposium, University of Toledo, 2004

“Measurements of Charge-Changing Cross Sections in Collisions of Protons on Helium”. Sigma Xi Student Research Symposium, University of Toledo, 2000

The University of Toledo

Graduate School

Upon the recommendation of the Faculty, the Board of Trustees of the University by the authority of the statutes of the State of Ohio has conferred the Degree of

Doctor of Philosophy

upon

Gregory Scott Hodges

who, having honorably fulfilled all the requirements prescribed by the University for this Degree is entitled to all the rights and privileges pertaining thereto.

Dated at Toledo, Ohio,
December 17, 2005.

Dean of the College

Dean of the Graduate School

THE UNIVERSITY OF TOLEDO

Provost of the University

President of the University

Chair of the Board of Trustees

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The American Board of Radiology

Organized through the cooperation of the
American College of Radiology, the American Roentgen Ray Society,
the American Radium Society, the Radiological Society of North America,
the Section on Radiology of the American Medical Association,
the American Society for Radiation Oncology, the Association of
University Radiologists, and the American Association of Physicists in Medicine,
Hereby certifies that

Gregory Scott Hodges, PhD

Has pursued an accepted course of graduate study and clinical work; has met certain standards and qualifications, including passing the examinations conducted under the authority of the American Board of Radiology, demonstrating to the satisfaction of the Board qualification to practice; and is therefore awarded the Board's certification in

Diagnostic Medical Physics

RSO Eligible

Ongoing validity of this certificate is contingent upon meeting the requirements of Maintenance of Certification.

This diplomate of the American Board of Radiology is permitted to use the **DABR** *mark to signify this certification.*

DABR

THE AMERICAN BOARD OF RADIOLOGY INCORPORATED IN THE DISTRICT OF COLUMBIA 1934

President

Secretary-Treasurer

Executive Director

AMERICAN BOARD 1933 OF MEDICAL SPECIALTIES EXCELLENCE SCIENCE SERVICE INTEGRITY OPI BUSQUE NIHIL

Certificate No. P4387

Effective November 04, 2012

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Letter of Participation in Maintenance of Certification (MOC)

ABR Certificate Holder's Name: **Gregory Scott Hodges, PhD**
ABR Certificate Holder's DOB: **01/1974**
Letter of Participation Created On: **06/09/2014**
Letter of Participation Valid Through: **03/15/2015**

The above-named certificate holder is participating in the American Board of Radiology's Maintenance of Certification (MOC) Program.

The current certification and MOC public reporting status for **Gregory Scott Hodges, PhD** is as follows:

Diagnostic Medical Physics - Certified, Meeting MOC Requirements

The most current certificate and MOC public reporting status information can be accessed at any time for the above-named ABR diplomate by entering the required information in the 'Check Board Certification' search on the ABR website at http://www.theabr.org/.

For questions regarding the ABR MOC Program or its participation requirements, please contact the MOC Help Desk at (520) 519-2152 or abrmocp@theabr.org.

Sincerely,
American Board of Radiology
Maintenance of Certification (MOC) Services

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF HEALTH
Division of Radiological Health and Safety Regulations

This is to acknowledge that

GREG HODGES, Ph.D.

License Number: RH-135-09-321
PHYSICS ASSOCIATES
5346 PETERS CREEK ROAD, SUITE A-3, ROANOKE, VA 24019

has been approved to conduct the following type(s) of inspections within the Commonwealth of Virginia

Diagnostic, Mammography Inspections & Shielding Design

Date Issued: **01/10/12** *Expiration Date*: **2/1/2015**

Stan Orchol fr
Assistant Director

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GOVERNMENT
OF THE
DISTRICT OF COLUMBIA

ONE CITY

DEPARTMENT OF HEALTH
HEALTH REGULATION AND LICENSING ADMINISTRATION

RADIATION CONTROL DIVISION
899 NORTH CAPITOL STREET, NE, 2ND FLOOR
WASHINGTON, DC 20002

CERTIFICATE OF LICENSURE OR REGISTRATION

REGISTRANT

GREGORY S. HODGES
5332 CAROLYN CIRCLE
ROANOKE, VA 24018

CERTIFICATE NUMBER

RP1400001

Business Activity:Radiation Physics Co
Issue Date: 01/07/2014
Expiration Date:09/30/2014

Interim Director, Department of Health

This certificate applies only to the registrant listed herein and is not transferable on change of ownership, control, location, or business activity.

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MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

APR 9 2014

Gregory S. Hodges, Ph.D.
5332 Carolyn Circle
Roanoke, VA 24018

INSPECTOR LICENSE NUMBER 875
APPROVAL

Dear Dr. Hodges:

Your application for a license to inspect radiation machines has been approved by the Department. By this letter you are licensed to inspect radiation machines including machines having energy levels up to one million electron volts. You are approved to provide medical physicist services to mammography facilities in Maryland. Your license number is 875. The license expiration date is **March 31, 2017**.

As a State licensed inspector, you will be expected to perform inspections that will be used by the Department to certify that the requirements of COMAR 26.12.01.01, "Regulations for Control of Ionizing Radiation (1994)", and COMAR 26.12.02, "Inspection and Certification of Radiation Machines", are met. A copy of COMAR 26.12.02 is enclosed. You are provided with the "Catalog of Reference Inspection Procedures" (CRIP).

Your attention is directed to paragraph 26.12.02.03.C(1) dealing with *Conflict of Interest*. It is MDE policy to refuse to issue a license to anyone found in violation of those listed provisions. The Department has the authority to suspend or revoke the license of anyone found in violation of these provisions. Should you have any questions or require additional information, please contact Ms. Eva Nair or Mr. Ahsan Bhatti at 410-537-3193 or toll free in Maryland, 800-633-6101 ext 3193.

Sincerely,

Roland G. Fletcher, Program Manager IV
Radiological Health Program
Air and Radiation Management Administration

RGF/ESN/ab
Enclosures: COMAR 26.12.02
CRIP
Machine Numbers

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THIS IS TO CERTIFY THAT

Gregory S. Hodges, Ph.D.

Has Successfully Completed

Department of Transportation Hazardous Materials Shipper Training in accordance with the training requirements as outlined in 49 CFR Part 172, Subpart H, and the requirements of Physics Associates' USNRC Radioactive Materials License

At: Roanoke College, Salem, VA

Date: October 21, 2011

Lee S. Anthony

Lee S. Anthony, Ph.D.
Physics Associates; Roanoke, VA

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RSNA 2010

PERSONALIZED MEDICINE:
In Pursuit of Excellence

NOVEMBER 28 - DECEMBER 3 • McCORMICK PLACE, CHICAGO

820 Jorie Blvd., Oak Brook, IL 60523
TEL 1-630-571-2670
RSNA.org

RECORD OF ATTENDANCE

Radiological Society of North America
96th Scientific Assembly and Annual Meeting

GREGORY HODGES, PHD
5346 PETERS CREEK RD
ROANOKE, VA 24019

Date: 12/04/2010

Badge No.: 2657

Certificate No.: 10338002657 (1)

The Radiological Society of North America (RSNA) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The RSNA designates this educational activity for a maximum of 92.75 *AMA PRA Category 1 Credits*™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

The RSNA certifies that the individual named above has participated in the educational activity titled RSNA 2010 Scientific Assembly and Annual Meeting at Chicago, Illinois on November 28 – December 3, 2010. This activity was awarded 29.75 continuing education credits.

The Commission on Accreditation of Medical Physics Education Program (CAMPEP) has approved the direct transfer of *AMA PRA Category 1 Credit*™ to MPCEC on a credit-for-credit basis for medical physicists.

This record confirms that the individual designated attended the RSNA 2010 Scientific Assembly and Annual Meeting and participated in the listed activities. Attendance at specific activities of the RSNA 2010 Scientific Assembly and Annual Meeting should not be construed as training that would constitute competency in the subject matter. This record is the computer accumulation of vouchers submitted at the RSNA 2010 Scientific Assembly and Annual Meeting and is provided as a help in record keeping. It may not reflect the total credits if vouchers have not been appropriately used. If that is the case, it is the responsibility of the individual to correct his/her own records in accordance with the honor system, which is customarily observed in reporting CE credits. This record of attendance is available only to the designated individual and will not be supplied to accrediting agencies and other organizations. The individual is charged with the responsibility of maintaining his/her own record of accumulated credits.

Mark G. Watson

Mark G. Watson
RSNA Executive Director

SSG01	ISP: Breast Imaging (Computer Image Analysis)	1.50
IA32	Open-Source Tools for Medical Research and Applications	1.50
RC432	Update Course in Diagnostic Radiology Physics: CT and MR Imaging--Advanced Applications	1.50
SH40	Digital Tomosynthesis: Is This an Important New Breast Imaging Technique?	1.00
VB41	Breast Series: Emerging Technologies in Breast Imaging	3.00
II43	Digital Mammography Workflow: Standards, Tools and IHE MAMMO	1.50
RC615	High-Quality Breast Imaging and Accreditation	1.50
SSQ01	ISP: Breast Imaging (Tomosynthesis and Digital Mammography)	1.50
RC721	Challenges in Breast Imaging	1.50

CME Earned: **AMA/PRA Category 1: 29.75**

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AMA / PRA Category 1: 29.75

PS10	Opening Session	1.75
IA11	ImageJ: Open Source Imaging Solutions for Radiology	1.50
	BR Scientific Poster/Education Exhibit CME: Sunday, Breast	1.00
RC121	New Trends in Digital Mammography	1.50
II12	Monitoring Radiation Exposure: Standards, Tools and IHE REM	1.50
VM21	Breast/Nuclear Medicine/Molecular Imaging Series: Breast Imaging in the Era of Molecular Medicine	3.00
	BR Scientific Poster/Education Exhibit CME: Monday, Breast	1.00
AS24	Imaging Facility Design in an Age of Diminishing Resources (Sponsored by the Associated Sciences Consortium)	1.50
SH30	Image-guided Drug Delivery	1.00
ES31	Essentials of Mammography	1.50

(Continued on next page)

Initial Digital Mammography Classes/Training

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SH30	Image-guided Drug Delivery	1.00
ES51	Essentials of Mammography	1.50

UAB HEALTH SYSTEM

Sep. 17, 2009

To Whom It May Concern:

This is to certify that Gregory Hodges, Ph.D, actively participated in performing complete surveys on six digital mammographic units under my personal and direct supervision. In each case the survey time was at least 4 hours. The participation included taking data and analyzing the data.

Sincerely,

Michael Yester

Michael Yester, Ph.D., DABR

Department of Radiology
Division of Physics and Engineering
301 General Services Building
621 19th Street South
205.934.2071
Fax 205.975.4678

The University of
Alabama at Birmingham
Mailing Address:
GSB 301
619 19TH ST S
BIRMINGHAM AL 35249-6830

UAB HEALTH SYSTEM

January 26, 2009

Mr. Stan Orchel, Jr.
Program Supervisor
Radiological Health Program
James Madison Building, 7th Floor
109 Governor St., Room 730
Richmond, VA 23219

Dear Mr. Orchel,

I am the program director for the post-doctoral fellowship/residency program in diagnostic imaging medical physics at the University of Alabama in Birmingham. Dr. Greg Hodges was a fellow in our program for two years. During this time, he received at least twenty hours of specialized training in conducting surveys of mammography equipment.

Please feel free to contact me if you require further information.

Sincerely,

Sharon L. White, PhD

Department of Radiology
Division of Physics and Engineering
301 General Services Building
621 19th Street South
205.934.2071
Fax 205.975.4678

The University of
Alabama at Birmingham
Mailing Address:
GSB 301
619 19TH ST S
BIRMINGHAM AL 35249-6830

Initial Digital Mammography Classes/Training

MEDICAL PHYSICIST'S MAMMOGRAPHY QC TEST SUMMARY
Trainee or Assistant Log

Site	Memorial Hospital of Martinsville Martinsville, VA	Survey Date	September 15, 2008
		Room ID	2
X-Ray Unit Manufacturer	Bennett	Model	Contour Plus
Supervising Medical Physicist	Lee Anthony, Ph.D.	Signature	Lee S Anthony
Trainee or Assistant	Greg Hodges, Ph.D.	Signature	

RAD Physics, Inc.
Radiation Survey, Calibration and Quality Assurance Audit
GE Senographé DS Digital Mammography Unit

Facility: Room # 2, Baptist Medical Center Princeton, Birmingham, AL
Inspected By: Gary T. Barnes & Gregory Hodges Date: July 31 2007
Room ID 02962-08

Medical Physicist's Mammography QC Test Summary

Site: Stereo (3A-222)
The Kirklin Clinic
Birmingham, AL 35233
Report Date: Aug. 14, 2007
Survey Date: Aug. 19, 2007

X-Ray Unit Mfr:	Fischer	Model:	Mammotest
Date of Installation:	Aug. 2004	Room ID:	Stereo
Film Processor Mfr.		Model:	
Medical Physicist:	Michael Yester, Ph.D. Greg Hodges, Ph.D. Robert Merrill, Ph.D.	Signature:	Michael Yester

Medical Physicist's Mammography QC Test Summary

Site: Unit 8 Room #4 (3A-181)
The Kirklin Clinic
Birmingham, AL 35233
Report Date: January 11, 2008
Survey Date: January 10, 2008

X-Ray Unit Mfr:	Siemens	Model:	3000 Nova, Feb, 2003
Date of Installation:	March, 2003	Room ID:	07748-08
Film Processor Mfr.	Kodak	Model:	Multiloader 7000
Medical Physicist:	Xizeng Wu, Ph.D. Greg Hodges, Ph. D., Robert Merrill, Ph.D.	Signature:	

Medical Physicist's Mammography QC Summary

Unit/Site: Unit ; Room2 (3A-174): The Kirklin Clinic
UAB Medical Center
Birmingham, Alabama
Report Date: January 17, 2008
Survey Date: January 4, 2008

X-Ray Unit Mfr.: Siemens
Date of Installation: August, 2001
Film Processor Mfr.: Kodak
Model: 3000 Nova, June 2001
Room ID: 07748-06
Model: Multiloader 7000
Medical Physicists: Sharon L. White, Ph.D., DABR
Signature:

Radiation Survey, Calibration, and Quality Assurance Audit
GE Seongraphe DS Digital Mammographic Unit

Facility: The Kirklin Clinic Room 8 Room ID 07748-12
Inspected by: Michael Yester, Ph.D., Gregory Hodges, Ph.D Date: 7/21, 24/2006

Medical Physicist's Mammography QC Test Summary

Site: Unit 7 Room #8 (3A-163)
The Kirklin Clinic
Birmingham, AL 35233
Report Date: December 27, 2006
Survey Date: December 8, 2006

X-Ray Unit Mfr:	Instrumentarium	Model:	Performa, Sep. 2000
Date of Installation:	Nov. 2000	Room ID:	07748-07
Film Processor Mfr.	Kodak	Model:	Multiloader 7000
Medical Physicist:	Xizeng Wu, Ph.D. Michael Yester, Ph.D., Greg Hodges, Ph. D.	Signature:	Michael Yester

MEDICAL PHYSICIST'S MAMMOGRAPHY QC TEST SUMMARY
Full-Field Digital – General Electric Senographé DS

Site	Room 2, North Tower—St. Vincent's Hospital Birmingham, Alabama	Report Date	January 31, 2007
		Survey Date	January 26, 2007
X-Ray Unit Manufacturer	General Electric	Model	Senographé DS
Date of Installation	December 2004	Room ID	12875-06 (Room 2)
Medical Physicist	Michael V. Yester, Ph.D. Gregory Hodges, Ph.D	Signature	Michael Yester

RAD Physics, Inc.
Radiation Survey, Calibration and Quality Assurance Audit
GE Senographé DS Digital Mammography Unit

Facility: Room 3 North Tower St Vincent's Hospital
Inspected By: Gary T. Barnes & Gregory E. Hodges Date: January 25 & 26 2007
Room ID 12875-04

RAD Physics, Inc.
Radiation Survey, Calibration and Quality Assurance Audit
GE Senographé DS Digital Mammography Unit

Facility: Room # 1, North Tower, St Vincent's Hospital
Inspected By: Gary T. Barnes & Gregory S. Hodges Date: January 24 & 25, 2007
Room ID 12875-05 (Room 1)

RAD Physics, Inc.
Radiation Survey, Calibration and Quality Assurance Audit
Lorad M-IV Mammography Unit

Facility: American Cast Iron Pipe Company (ACIPCO), Birmingham AL
Inspected By: Gary T. Barnes & Greg Hodges Date: September 28, 2006
Room ID 06062-03

1. Equipment
X-Ray Generator/Control

Manufacturer:	Lorad (Hologic)	Date of Manufacture:	August 1997
Model:	M-IV	Serial Number:	1800 897 0565
Source Assembly			
Manufacturer:	Varian	Date of Manufacture:	August 1997
Model:	M-113	Serial Number:	46933-07

Radiation Survey, Calibration, and Quality Assurance Audit
GE Seongraphe DS Digital Mammographic Unit

Facility: The Kirklin Clinic Room Room 9 (07748-13)
Inspected by: Michael Yester, Ph.D., Sharon White, Ph.D. Date: 11/1/2007
Greg Hodges, Ph.D., Robert Merrill, Ph.D.

MEDICAL PHYSICIST'S MAMMOGRAPHY QC TEST SUMMARY
Full-Field Digital – General Electric

Site Name	The Kirklin Clinic (UAB HEALTH SYSTEM)	Report Date	15-Jun-07
Address	2000 6th Ave So	Survey Date	1-Jun-07
X-Ray Unit Mfr	General Electric	Model	DS
Date of Installation	3-May-06	Room ID	07748 - 11 (Room 7)
Review Workstation Mfr	General Electric	Model	SenoAdvantage
Laser Film Printer Mfr	Fuji	Model	Dry Pix 5000
Medical Physicist's Name	Xizeng Wu, Ph.D, Greg Hodges, Ph.D., Hong-Gang Liu, M.S.	Signature	

Medical Physicist's Mammography QC Test Summary

Site: Unit 9 Room 3A-177 (Rm #1);
The Kirklin Clinic
Birmingham, AL 35233
Report Date: January 8, 2008
Survey Date: January 2, 2008

X-Ray Unit Mfr:	GE	Model:	800T
Date of Installation:	March, 2003	Room ID:	07748-9
Film Processor Mfr.	Kodak	Model:	Multiloader 7000
Medical Physicist:	Xizeng Wu, Ph.D. Greg Hodges, Ph.D., Robert Merrill, Ph.D.	Signature:	

Medical Physicist's Mammography QC Test Summary

Site: Stereo (3A-222)
The Kirklin Clinic
Birmingham, AL 35233
Report Date: Sep. 9, 2006
Survey Date: Sep 7, 2006

X-Ray Unit Mfr:	Fischer	Model:	Mammotest
Date of Installation:	Aug. 2004	Room ID:	Stereo
Film Processor Mfr.		Model:	
Medical Physicist:	Michael Yester, Ph.D. Greg Hodges, Ph.D.	Signature:	Michael Yester

Medical Physicist's Mammography QC Test Summary

Site: Unit 8 Room #4 (3A-181)
The Kirklin Clinic
Birmingham, AL 35233
Report Date: January 12, 2007
Survey Date: January 5, 2007

X-Ray Unit Mfr:	Siemens	Model:	3000 Nova, Feb, 2003
Date of Installation:	March, 2003	Room ID:	07748-08
Film Processor Mfr.	Kodak	Model:	Multiloader 7000
Medical Physicist:	Xizeng Wu, Ph.D. Michael Yester, Ph.D., Greg Hodges, Ph. D.	Signature:	Michael Yester

Radiation Survey, Calibration, and Quality Assurance Audit
GE Seongraphe DS Digital Mammographic Unit

Facility: The Kirklin Clinic Room 8 (07748-12) Room ID 07748-12
Inspected by: Michael Yester, Ph.D., Gregory Hodges, Ph.D Date: 8/16 - 8/21/2007

Medical Physicist's Mammography QC Test Summary

Site: Unit 9 Room 3A-177 (Rm #1),
The Kirklin Clinic
Birmingham, AL 35233
Report Date: January 11, 2007
Survey Date: December 22, 2006

X-Ray Unit Mfr:	GE	Model:	800T
Date of Installation:	March, 2003	Room ID:	07748-9
Film Processor Mfr.	Kodak	Model:	Multiloader 7000
Medical Physicist:	Xizeng Wu, Ph.D. Michael Yester, Ph.D., Greg Hodges, Ph. D.	Signature:	Michael Yester

MAP ID Nos. _____

Each medical physicist who provides medical physics services at this facility must verify that they meet FDA requirements by completing a copy of Section H.

Please print, type or complete this form by computer. To use your computer, double-click the space and type or click your response. Tab to move to the next question. Signature dates must be within one year from the date of application. Original, electronic or faxed signatures are required and considered legally binding for this document. Stamped signatures are not acceptable. Complete all sections; an incomplete application will delay your accreditation.

PRIVILEGED and CONFIDENTIAL • PEER REVIEW
Code of Virginia 8.01-581.17

SECTION H - PERSONNEL - MEDICAL PHYSICIST

1. Name: Hodges (LAST NAME) Gregory (FIRST NAME) S. (MI) Ph.D. (DEGREE)

2. ACR Membership ID#: *(optional)* _____

3. Initial qualifying date (earliest date qualified to do mammography physics. Medical physicists qualifying prior to the MQSA Interim Rules should check "prior to October 1, 1994."):

☒ prior to October 1, 1994 or *specify date after October 1, 1994* 02 (MO) / 2009 (YR)

INITIAL QUALIFICATIONS

4. Do you meet FDA requirements for initial qualifications for medical physicists? *(complete ONLY the column that pertains to you)*

FDA Requirements	Initial Qualifications (Master's degree or higher)		Alternative Initial Qualifications *must have met before April 28, 1999* (Bachelor's degree)	
Qualified as a medical physicist under FDA's interim regulations and retained that qualification by maintenance of the active status of licensure, approval, or certification?	*Not applicable*		☐1No ☐2Yes	
Board Certified by either the 1. American Board of Radiology (ABR) in Diagnostic Radiological Physics (alone or combined with another sub-specialty), Radiological Physics, Roentgen Ray or Gamma Ray Physics or X-Ray and Radium Physics, or 2. American Board of Medical Physics (ABMP) in Diagnostic Imaging Physics	Board	Year	Board	Year
	ABR		ABR	
	ABMP		ABMP	
State licensed?	☐1No ☒2Yes		☐1No ☐2Yes	
State approved?	☐1No ☒2Yes		☐1No ☐2Yes	
Meet the following degree requirement in a physical science from an accredited institution?	*Master's degree or higher* ☐1No ☒2Yes		*Bachelor's degree obtained before training and initial experience* ☐1No ☐2Yes	
Have no less than the following semester hours or equivalent of college undergraduate or graduate level physics?	*20 semester hours or equivalent* ☐1No ☒2Yes		*10 semester hours or equivalent* ☐1No ☐2Yes	
Have the following contact hours of documented specialized training in conducting surveys of mammography facilities?	*20 hours* ☐1No ☒2Yes		*40 hours* ☐1No ☐2Yes	
Have experience conducting surveys of at least one mammography facility and the following number of mammography units? (No more than one survey of a specific unit within a period of 60 days may be counted towards the total mammography unit survey requirement. If experience was acquired after April 28, 1999, it must be under the direct supervision of a qualified medical physicist).	*10 units* ☐1No ☒2Yes		*20 units* ☐1No ☐2Yes	

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MAP ID Nos. _____

New modalities: You must have received at least 8 hours of modality-specific training (e.g., full-field digital or screen-film) in surveying these systems before independently performing surveys on these systems. Have you received this training? *(may be included in the above formal mammography education or obtained separately)*

Full-field digital mammography *(direct capture digital and/or computed radiography)*	☐[1]No	☒[2]Yes
Screen-film mammography	☐[1]No	☒[2]Yes

CONTINUING EXPERIENCE

5. How many mammography facilities and units have you surveyed over the previous 24-month period?

 # facilities: 12 **# units:** 9

If less than 2 facilities and 6 units, are you in the process of requalifying?

☐[1]No ☐[2]Yes

CONTINUING EDUCATION

6. Have you earned at least 15 continuing education units in mammography in a 36-month period? *(see FDA's Policy Guidance Help System for acceptable subject areas)*

☐[1]No ☒[2]Yes

If you answered "No", are you in the process of requalifying?

☐[1]No ☐[2]Yes

I certify that the information provided in Section H is true and correct.

Executed on: July 15, 2013
DATE

SIGNATURE OF MEDICAL PHYSICIST

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MTMI

Medical Technology
Management Institute

THIS CERTIFIES THAT:

Gregory S. Hodges

HAS SUCCESSFULLY COMPLETED THE LIVE WEBINAR ENTITLED:

DIGITAL BREAST TOMOSYNTHESIS(SESSION1)

Mar 6, 2012

This program has been approved for 2.5 hours of Category A continuing education credit for Radiologic Technologists as required by the ARRT and by various states requiring approval.

ASRT# WID0032016 and 2.5MPCECs

J. Ed Barnes, Ph.D.
Program Director

20900 Swenson Drive, Ste 650
Waukesha, Wisconsin 53186
(800)765-6864

MTMI

Medical Technology
Management Institute

THIS CERTIFIES THAT:

Gregory S. Hodges

HAS SUCCESSFULLY COMPLETED THE LIVE WEBINAR ENTITLED:

DIGITAL BREAST TOMOSYNTHESIS(SESSION2)

Mar 8, 2012

This program has been approved for 2.5 hours of Category A continuing education credit for Radiologic Technologists as required by the ARRT and by various states requiring approval.

ASRT# WID0032017 and 2MPCECs

J. M. Barnes, Ph.D.
Program Director

20900 Swenson Drive, Ste 650
Waukesha, Wisconsin 53186
(800)765-6864

MTMI

Medical Technology Management Institute

This Certifies That:

Gregory Hodges

Has Successfully Completed The Workshop Entitled:

"HANDS-ON DIGITAL BREAST TOMOSYNTHESIS TRAINING WORKSHOP"

March 23, 2012

held in Bedford, MA

This activity provides 4.0 hours of continuing education in Digital Breast Tomosynthesis.
Approval has been received from CAMPEP for up to 4.0 hours of Medical Physics Continuing Education Credits (MPCEC'S)
Credits to be awarded by CAMPEP.

J. Ed Barnes, Ph.D.

Co-Directors: J. Ed Barnes, Ph.D., FACR, FACMP
Jerry Thomas, MS, DABR, CHP, DABSNM

MTMI
20900 Swenson Drive Ste 650
Waukesha, WI 53186
A continuing education division of
Herzing University

MTMI
Medical Technology Management Institute

THIS CERTIFIES THAT:

GREGORY HODGES

SUCCESSFULLY COMPLETED THE SELF-ASSESSMENT MODULE TITLED:

"A REVIEW OF DIGITAL BREAST IMAGING TECHNOLOGY"

OCTOBER 5, 2013
Held in
Washington, D.C..

and has earned one and a half (1.5) SAM credit in Medical Physics.
The Medical Technology Management Institute Self-Assessment Module (SAM) titled "A Review of Digital Breast Imaging Technology" was approved on **September 18, 2013** under the designation **MTMD0913-1802** and has been qualified by the American Board of Radiology in meeting the criteria for self-assessment toward fulfilling requirements in the ABR Maintenance of Certification Program

J.Ed Barnes, Ph.D, FACR
President

20900 Swenson Dr., Ste 650
Waukesha, Wisconsin 53186

MTMI
Medical Technology Management Institute

THIS CERTIFIES THAT:

GREGORY HODGES

SUCCESSFULLY COMPLETED THE SELF-ASSESSMENT MODULE TITLED:

"SURVEYING/QC OF STEREOTACTIC BREAST BIOPSYUNITS"

OCTOBER 5, 2013
Held in
Washington, D.C..

and has earned one and a half (1.5) SAM credit in Medical Physics.
The Medical Technology Management Institute Self-Assessment Module (SAM) titled "Surveying/QC of STEREOTACTIC BREAST BIOPSYUNITS" was approved on **September 30, 2013** under the designation **MTMD0913-1804** and has been qualified by the American Board of Radiology in meeting the criteria for self-assessment toward fulfilling requirements in the ABR Maintenance of Certification Program

J.Ed Barnes, Ph.D, FACR
President

20900 Swenson Dr., Ste 650
Waukesha, Wisconsin 53186

MTMI
Medical Technology Management Institute

THIS CERTIFIES THAT:

GREGORY HODGES

SUCCESSFULLY COMPLETED THE SELF-ASSESSMENT MODULE TITLED:

"UPDATE ON MQSA AND MAMMOGRAPHY ACCREDITATION"

OCTOBER 5, 2013
Held in
Washington, D.C..

and has earned one (1.0) SAM credit in Medical Physics.
The Medical Technology Management Institute Self-Assessment Module (SAM) titled "Update on MQSA and Mammography Accreditation" was approved on **September 18, 2013** under the designation **MTMD0913-1805** and has been qualified by the American Board of Radiology in meeting the criteria for self-assessment toward fulfilling requirements in the ABR Maintenance of Certification Program

J.Ed Barnes, Ph.D, FACR
President

20900 Swenson Dr., Ste 650
Waukesha, Wisconsin 53186

MTMI
Medical Technology Management Institute

THIS CERTIFIES THAT:

GREGORY HODGES

SUCCESSFULLY COMPLETED THE SELF-ASSESSMENT MODULE TITLED:

"STEREOTACTIC BREAST BIOPSY: CLINICAL CONSIDERATIONS AND COMPARISON TO ALTERNATIVE BIOPSY TECHNIQUES"

OCTOBER 5, 2013

and has earned one (1.0) SAM credit in Medical Physics.
The Medical Technology Management Institute Self-Assessment Module (SAM) titled "STEREOTACTIC BREAST BIOPSY: CLINICAL CONSIDERATIONS AND COMPARISON TO ALTERNATIVE BIOPSY TECHNIQUES" was approved on **September 30, 2013** under the designation **MTMD0913-1803** and has been qualified by the American Board of Radiology in meeting the criteria for self-assessment toward fulfilling requirements in the ABR Maintenance of Certification Program

J.Ed Barnes, Ph.D, FACR
President

20900 Swenson Dr., Ste 650
Waukesha, Wisconsin 53186

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COMMONWEALTH of VIRGINIA

Department of Health

CYNTHIA C. ROMERO, MD, FAAFP
STATE HEALTH COMMISSIONER

PO BOX 2448
RICHMOND, VA 23218

TTY 7-1-1 OR
1-800-828-1120

February 5, 2013

Lewis-Gale Medical Center, LLC
Charlotte Tyson, Chief Operating Officer
1900 Electric Road
Salem, Virginia 24153

Dear Mr. Tyson:

Enclosed is Amendment # 6 to Radioactive Material License No. 161-126-1, with the changes printed in **bold letters**. The amendment changes the Radiation Safety Officer to Gregory S. Hodges, Ph.D.

Please read the license carefully as you will be responsible for its contents. Your operations will be subject to routine inspections by the Agency for compliance with Chapter 481 'Virginia Radiation Protection Regulation' and the conditions of your license. These inspections may be unannounced or scheduled.

If you have any questions, feel free to contact me at 804-864-7943 or asfaw.fenta@vdh.virginia.gov.

Sincerely,

Asfaw Fenta
Radiation Safety Specialist
109 Governor Street, Room 730
Richmond, VA 23219

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF HEALTH

RADIOACTIVE MATERIALS LICENSE

Under the Code of Virginia Section 32.1-229.3 and 12VAC5-481, Virginia Radiation Protection Regulations, and in reliance on statements and representations made by the licensee, a license is issued authorizing the licensee to receive, acquire, possess and transfer radioactive material designated below; to use the material for the purpose(s) and at the place(s) designated below; and to deliver or transfer the material to persons authorized to receive it in accordance with 12VAC5-481, Virginia Radiation Protection Regulations. This license is subject to all applicable rules and orders of the Virginia Department of Health now or hereafter in effect, and to any conditions specified below.

Licensee Name and Address	In accordance with the letter dated **January 31, 2013** 3. License Number: 161-126-1 is hereby amended to read follows:
1. Lewis-Gale Medical Center, LLC d/b/a LewisGale Medical Center	4. Amendment No.: **6**
2. 1900 Electric Road Salem, Virginia 24153-7494	5. Expiration Date: May 31, 2016

6. Radioactive material	7. Chemical and/or physical form	8. Maximum amount of radioactive materials that the licensee may possess at any one time under this license:	9. Authorized Use:
A. Any radioactive material permitted by 12VAC5-481-1900	A. Any	A. As needed	A. Any uptake, dilution and excretion study permitted by 12VAC5-481-1900
B. Any radioactive material permitted by 12VAC5-481-1920	B. Any	B. As needed	B. Any imaging and localization study permitted by 12VAC5-481-1920
C. Any radioactive material permitted by 12VAC5-481-1950	C. Any	C. 1.5 Curies	C. Any diagnostic study or therapy procedure permitted by 12VAC5-481-1950
D. Any radioactive material permitted by 12VAC5-481-2010	D. Sealed Sources	D. No single source to exceed the maximum amount listed on the Sealed Source and Device Registry (SSD); total not to exceed 4.5 curies.	D. Any manual brachytherapy procedure permitted by 12VAC5-481-2010

RADIOACTIVE MATERIALS LICENSE	License Number: 161-126-1 Amendment No: 6

E. Iridium-192	E. Sealed Sources	E. No single source to exceed 12 curies; total not to exceed 21 curies. The source activity may not exceed 12 curies at time of medical use.	E. One source for medical use permitted by 12VAC5-481-2040, in a Nucletron Model 105.999 or MicroSelectron-HDR Classic High Dose Rate Remote Afterloader unit. One source in its shipping container as necessary for replacement of the source in the remote afterloader.
F. Yttrium-90	F. Any	F. 200 millicuries	F. Calibration of licensee's instruments.

CONDITIONS

10. Licensed material may be used or stored only at the licensee's facilities located at 1900 Electric Road, Salem, Virginia.

11. The Radiation Safety Officer for this license is Gregory S. Hodges, Ph.D.

12. Licensed material is only authorized for use by, or under the supervision of:

A. Individuals permitted to work as an authorized user in accordance with 12VAC5-481-1680 and 1690.

B. The following individuals are authorized users for medical use:

Authorized Users	Material and Use
David A. Buck, M.D.	12VAC5-481-2010; Iridium-192 for uses in a High Dose Rate Remote Afterloader
Randall O. Hess, M.D.	12VAC5-481-1950; 12VAC5-481-2010; Iridium-192 for uses in a High Dose Rate Remote Afterloader
John M. Mathis, M.D.	12VAC5-481-1900; 12VAC5-481-1920; 12VAC5-481-1950
David M. Randolph, M.D.	12VAC5-481-1950; 12VAC5-481-2010; Iridium-192 for uses in a High Dose Rate Remote Afterloader
Robert C. Heath, M.D.	12VAC5-481-1950; 12VAC5-481-2010; Iridium-192 for uses in a High Dose Rate Remote Afterloader
John W. Rogers, M.D.	12VAC5-481-2010; Iridium-192 for uses in a High Dose Rate Remote Afterloader
Witold Brozyna, M.D.	12VAC5-481-1900; 12VAC5-481-1920
Charles H. Warner, M.D.	12VAC5-481-1900; 12VAC5-481-1920; 12VAC5-481-1950
Jackson W. Kiser, M.D.	12VAC5-481-1900; 12VAC5-481-1920; 12VAC5-481-1950

RADIOACTIVE MATERIALS LICENSE	License Number: 161-126-1
	Amendment No: 6

Peter Rosenfeld, M.D.	12VAC5-481-1900; 12VAC5-481-1920; 12VAC5-481-1950

C. The following individuals are authorized users for medical use:

Authorized Medical Physicist	Material and Use
Lee S. Anthony, M.D.	Iridium-192 in a High Dose Rate Remote Afterloader for calibrations, spot-checks, and training.
P. Scott Mange, M.S.	Iridium-192 in a High Dose Rate Remote Afterloader for calibrations, spot-checks, and training.
James Nunn, M.S.	Iridium-192 in a High Dose Rate Remote Afterloader for calibrations, spot-checks, and training.
Daniel Meleason, M.S.	Iridium-192 in a High Dose Rate Remote Afterloader for calibrations, spot-checks, and training.

D. The following individual is an authorized user for non-medical uses as indicated:

Users	Material and Use
Lee S. Anthony, M.D.	Yttrium-90 for instrument calibrations.

13. The licensee is authorized to transport licensed material in accordance with the provisions of Chapter 481, Part XIII, 'Transportation of Radioactive Material.'

14. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 12VAC5-481-450 C for establishing decommissioning financial assurance.

15. Per 12VAC5-481-740, no sealed source shall be stored for a period of more than 5 years without being tested for leakage or contamination.

16. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.

RADIOACTIVE MATERIALS LICENSE	License Number: 161-126-1
	Amendment No: 6

17. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. Chapter 481 'Virginia Radiation Protection Regulations' shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated March 31, 2011.

B. Letter dated May 27, 2011.

C. Letter dated May 07, 2012.

D. Letter dated March 29 & May 18, 2012.

FOR THE VIRGINIA DEPARTMENT OF HEALTH

Michael Welling
SIGNATURE
DIRECTOR, RADIOACTIVE MATERIALS PROGRAM

2/5/13
DATE