

## Curriculum Vitae

### Tony D. Murphy, MS DABR

**Contact Info:***Phone:* (612) 961-1232*Fax:* (763) 592-8242*E-mail:* [tony@midwestphysics.com](mailto:tony@midwestphysics.com)**Degrees:**

MS - Medical Physics, University of Wisconsin-Madison, 1991

BS - Physics (Summa Cum Laude), Western Kentucky University, 1989

**Board Certification:**

American Board of Radiology - Therapeutic Radiology, June 1995

American Board of Radiology – Diagnostic Radiology, Nov 2000

**Experience:***Consultant Medical Physicist*, Midwest Physics and Technology Solutions, 1992-Present*Chief Medical Physicist*, CentraCare Health Systems, 1999 – 2000*Clinical Medical Physicist*, Abbott-Northwestern Hospital, 1991 – 1999*Instructor*, School of Radiation Therapy Abbott Northwestern Hospital, 1993 – 1999*Medical Physicist Intern*, Radiation Oncology, Mayo Clinic, Rochester, MN June-Sept 1991*Research Assistant*, Univ of Wisconsin ADCL, Madison, Wisconsin, 1990 - 1991*Research Assistant*, Ultrasound Division of Medical Physics, Univ of Wisconsin, 1990*Research Assistant*, Dr. George Vourvopoulos, Western Kentucky University, 1987-89*Research Assistant*, Holifield Heavy Ion Research Facility, Oak Ridge Nat'l Laboratory, 1987**Society Memberships:**

American Association of Physicists in Medicine (AAPM)

North Central Chapter - AAPM (*Secretary/Treasurer 1994-1998*)

Minnesota Radiological Society (MRS)

American College of Radiology (ACR)

American Society for Therapeutic Radiology and Oncology (ASTRO)

Health Physics Society (HPS)

**Continuing Education:**

CAMPEP Medical Physics Credits – 1/1/2009 through 12/31/2011

151.67 Credit Hours in all areas – **See attached transcript for summary**

/-----	Mammography	28+ CEU hours
Category specific credits -----/-----	CT	21+ CEU hours
\-----	NM/PET	18+ CEU hours
\----	MRI	15+ CEU hours

In addition, over 69 hours of General Medical Physics credits may also be applied per ACR and MQSA**Mammography Qualification Status:**

- Certified by American Board of Radiology in Diagnostic Radiological Physics
- Meet interim rules for MQSA qualified medical physicist
- See Attestation Form following regarding previous experience and training
- Met 8 hours requirement for FFDM surveys – new modality training

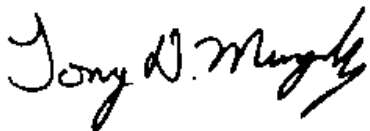
## ATTESTATION FORM

### Regarding Requirements of the Mammography Quality Standards Act

I, **Tony D. Murphy, MS**, attest that to the best of my knowledge and my belief, the following information provided in this declaration is true and correct. I understand that the FDA may request additional information to substantiate the statements made in this declaration:

- 1) Prior to 10/1/94, I have received greater than 40 hours of training in medical physics relating to mammography physics. This training was obtained at the University of Wisconsin during my acquisition of the Masters of Science degree during the time period from 9/89 to 5/91. This training included coursework in the biological sciences. Please see attached copy of degree certificate.
- 2) Prior to 10/1/94, I have conducted surveys on greater than 20 mammography units. This includes approximately 15 units tested in 1992, 25 units in 1993, and 30 units in 1994. The first year of my surveys was under the training supervision of J. Thomas Payne, Ph.D., certified by the ABR in Radiological Physics.

**I understand that knowingly providing false information in a matter within the jurisdiction of an agency of the United States could result in criminal liability, punishable by up to \$10,000 fine and imprisonment of up to five years, or civil liability under the MQSA or both.**



\_\_\_\_\_, Medical Physicist

Attestor's Signature and Title

10/4/96

Date First Attestation Signed

Facility Name and Address (if applicable):  
(including zip code)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Facility ID Number (if applicable)  
(from the Facility's MQSA certificate)

\_\_\_\_\_

**CAMPEP**  
**Commission on Accreditation of Medical Physics Education Programs, Inc.**  
**Certificate of Medical Physics Continuing Education Credits**  
**----Unofficial Transcript----**

**Tony Murphy**  
 1417 Cougar Ct  
 Sartell, MN 56377  
 US

Participated in the following CAMPEP accredited educational program(s) and is awarded Medical Physics Continuing Education Credits (MPCECs) as designated

<u>Program Title</u>	<u>Date Credits Earned</u>	<u>Category/SubCategory</u>	<u>EA Title</u>	<u>Credits</u>
2009 AAPM Online Continuing Education	02/11/2009	Diagnostic Radiology:Mammography	MAMO-0176 MQSA Compliance Guidance	1
2009 AAPM Online Continuing Education	02/16/2009	Diagnostic Radiology:Mammography	MAMO-0178 Mammographic Surveys	1
2009 AAPM Online Continuing Education	02/10/2009	Diagnostic Radiology:Mammography	MAMO-0180 Survey of Mammographic Equipment	1
2009 AAPM Online Continuing Education	02/11/2009	Diagnostic Radiology:Mammography	MAMO-0182 Preparing for MQSA Inspections	1
2009 AAPM Online Continuing Education	02/10/2009	Diagnostic Radiology:Mammography	MAMO-0183 Quality Control for Full-Field Digital Mammography	1
2009 AAPM Online Continuing Education	02/10/2009	Diagnostic Radiology:Mammography	MAMO-0186 Testing FFDM Systems	1
2009 AAPM Online Continuing Education	02/11/2009	Diagnostic Radiology:Mammography	MAMO-0187 State of the Art: Digital Mammography	1
2009 AAPM Online Continuing Education	02/10/2009	Diagnostic Radiology:Mammography	MAMO-0189 Technological and Psychophysical Considerations for Digital Mammographic Displays.	1
2009 AAPM Online Continuing Education	02/10/2009	Diagnostic Radiology:Mammography	MAMO-0190 Technological and Psychophysical Considerations for Digital Mammographic Displays	1
2009 AAPM Online Continuing Education	02/09/2009	Diagnostic Radiology:Mammography	MAMO-0192 Mammography Dose and Accreditation	1
2009 AAPM Online Continuing Education	02/09/2009	Diagnostic Radiology:Mammography	MAMO-0194 DMIST Quality Control (Part I)	1
2009 AAPM Online Continuing Education	02/09/2009	Diagnostic Radiology:Mammography	MAMO-0195 DMIST Quality Control (Part II)	1
2009 AAPM Online Continuing Education	02/09/2009	Diagnostic Radiology:Mammography	MAMO-0196 Mammography Update: Practical and Regulatory Issues for Medical physicists	1
2009 AAPM Online Continuing Education	02/09/2009	None:None	MAMO-0197 Digital Mammography Systems Performance	1
2009 AAPM Online Continuing Education	02/11/2009	None:None	MAMO-0198 Digital mammography clinical systems evaluation	1
2009 NCCAAPM Fall Meeting	10/23/2009	General Medical Physics:Professional	ABR Certification in Medical Physics: A new Era	0.5
2009 NCCAAPM Fall Meeting	10/23/2009	Radiotherapy:Dosimetry	Calculation errors in Pinnacle and Radcalc for off-axis wedged fields	0.33

2009 NCCAAPM Fall Meeting	10/23/2009	Diagnostic Radiology:Dosimetry	Calibration of CT ionization chambers	0.25
2009 NCCAAPM Fall Meeting	10/23/2009	Radiotherapy:Dosimetry	Determination of the air-kerma strength for the Flexisource: a new Ir-192 high dose rate source manufactured by Isodose Control	0.25
2009 NCCAAPM Fall Meeting	10/23/2009	Radiotherapy:Dosimetry	Device for monitoring the size of the Luminal cavity encompassed by the LAGB	0.33
2009 NCCAAPM Fall Meeting	10/23/2009	Radiotherapy:Brachytherapy	Dosimetric measurements on a family of electronic brachytherapy skin applicators	0.33
2009 NCCAAPM Fall Meeting	10/23/2009	Radiotherapy:Dosimetry	DVH with position index - DVHp	0.25
2009 NCCAAPM Fall Meeting	10/23/2009	Radiotherapy:Image-guided	Image-Guided Radiation Therapy: Benefits and Limitations	0.67
2009 NCCAAPM Fall Meeting	10/23/2009	Radiotherapy:Image-guided	Inclusion of kilovoltage cone beam CT dose in the treatment plan	0.33
2009 NCCAAPM Fall Meeting	10/23/2009	General Medical Physics:Dosimetry	Influence of skeletal damage on <sup>45</sup> Ca pharmacokinetics and response to zoledronic acid	0.33
2009 NCCAAPM Fall Meeting	10/23/2009	Radiotherapy:Dosimetry	Investigating the synergistic effects of combining radiation and Beta Lapachone against tumors	0.25
2009 NCCAAPM Fall Meeting	10/23/2009	Diagnostic Radiology:Dosimetry	Polymer gel R2 response as a function of photon energy for moderately filtered x-ray spectra in the range of 50 to 250 kVp relative to Co-60	0.25
2009 NCCAAPM Fall Meeting	10/23/2009	General Medical Physics:Professional	Proposed changes to the WI HS 157 regulations	0.33
2009 NCCAAPM Fall Meeting	10/23/2009	General Medical Physics:Dosimetry	Recent Data on Clinical Trials QA from the RPC	0.17
2009 NCCAAPM Fall Meeting	10/23/2009	Radiotherapy:Dosimetry	Selective Internal Radiation Treatment using Yttrium 90 Microsphere	0.33
2010 AAPM Online Continuing Education	11/09/2010	Diagnostic Radiology:Computed Tomography	1541-N The phantom portion of the American College of Radiology (ACR) Computed Tomography (CT) accreditation program: Practical tips, artifact examples, and pitfalls to avoid	1
2010 AAPM Online Continuing Education	11/09/2010	Diagnostic Radiology:Mammography	1569-N Clinical Factors and Patient Dose in Mammography	1
2010 AAPM Online Continuing Education	11/09/2010	Diagnostic Radiology:Mammography	1598-N Mammographic Surveys	1
2010 AAPM Online Continuing Education	11/09/2010	Diagnostic Radiology:Mammography	1600-N Preparing for MQSA Inspections	1
2010 AAPM Online Continuing Education	11/09/2010	Diagnostic Radiology:Mammography	1607-N Mammography Update: Practical and Regulatory Issues for Medical physicists	1
2010 AAPM Online Continuing Education	11/08/2010	Diagnostic Radiology:Mammography	1810-N Mammography CR performance evaluation	1
2010 AAPM Online Continuing Education	11/09/2010	Diagnostic Radiology:Computed Tomography	1826-N Quality Control in CT, CE - CT 2	1
2010 AAPM Online Continuing Education	11/08/2010	Diagnostic Radiology:Mammography	1898-N Breast Cancer Screening and Digital Mammography	1
2011 AAPM OnLine	12/26/2011	Diagnostic Radiology:Magnetic	1615-N ACR MRI Accreditation	1

Continuing Education		Resonance	Program Phantom Testing	
2011 AAPM OnLine Continuing Education	12/27/2011	Diagnostic Radiology:Magnetic Resonance	1624-N ACR MRI Accreditation Overview	1
2011 AAPM OnLine Continuing Education	12/29/2011	Diagnostic Radiology:Magnetic Resonance	1645-N Practical aspects of functional MRI (NMR Task Group #8)	1
2011 AAPM OnLine Continuing Education	12/27/2011	Diagnostic Radiology:Magnetic Resonance	1654-N MRI Quality Control Manual	1
2011 AAPM OnLine Continuing Education	12/27/2011	Diagnostic Radiology:Magnetic Resonance	1655-N MR Accreditation Program Quality Control: Beyond Just the Scans and Measurements	1
2011 AAPM OnLine Continuing Education	12/30/2011	Diagnostic Radiology:Magnetic Resonance	1657-N The Principles of Quantitative MRI	1
2011 AAPM OnLine Continuing Education	12/30/2011	Diagnostic Radiology:Computed Tomography	1824-N Fundamentals of Single and Multiple Row Detector Computed Tomography	1
2011 AAPM OnLine Continuing Education	12/25/2011	Diagnostic Radiology:Computed Tomography	1827-N Quality assurance for computed-tomography simulators and the computed-tomography-simulation process: Report of the AAPM Radiation Therapy Committee Task Group No. 66	1
2011 AAPM OnLine Continuing Education	12/30/2011	Diagnostic Radiology:Computed Tomography	1828-N RECENT ADVANCES in CT: MSCT and Highspeed Scanning	1
2011 AAPM OnLine Continuing Education	12/25/2011	Nuclear Medicine:Radiation Protection	1837-N Releasing Nuclear Medicine Patients to the Public: Dose Calculations and Discharge Instructions	1
2011 AAPM OnLine Continuing Education	12/28/2011	Diagnostic Radiology:Magnetic Resonance	1849-N MRI Artifacts in ACR Accreditation Phantom Images	1
2011 AAPM OnLine Continuing Education	12/29/2011	Diagnostic Radiology:Magnetic Resonance	1854-N A Generalized Approach to Parallel Magnetic Resonance Imaging	1
2011 AAPM OnLine Continuing Education	12/28/2011	Diagnostic Radiology:Magnetic Resonance	1855-N Optimizing MRI Protocols ◆ Clinical Practice and Compromises	1
2011 AAPM OnLine Continuing Education	12/25/2011	Diagnostic Radiology:Computed Tomography	1892-N Cone beam CT dosimetry A unified and self-consistent approach including all scan modalities	1
2011 AAPM OnLine Continuing Education	12/27/2011	Diagnostic Radiology:PET	1914-N 4D-PET data sorting into different number of phases - a NEMA IQ phantom study	1
2011 AAPM OnLine Continuing Education	12/28/2011	Diagnostic Radiology:Magnetic Resonance	1915-N MRI Annual Equipment Performance Evaluation and Acceptance Testing	1
2011 AAPM OnLine Continuing Education	12/27/2011	Diagnostic Radiology:Computed Tomography	1931-N C-Arm Cone-Beam CT: Some Essential Science and Practicalities	1
2011 AAPM OnLine Continuing Education	12/25/2011	Diagnostic Radiology:Patient Safety	1979-N Imaging Symposium - Patient Dose in CT: Calculating Patient-Specific Doses in CT	1
51st AAPM Annual Meeting	07/29/2009	Imaging:Magnetic Resonance	ACR Accreditation for MRI - Role of the Medical Physicist	2
51st AAPM Annual Meeting	07/27/2009	Nuclear Medicine:None	ACR Accreditation in Nuclear Medicine and PET - A Practical Guide	1.83
51st AAPM Annual Meeting	07/29/2009	Imaging:Ultrasound	Advances in Cardiovascular Imaging : MR Fluoroscopy and	1.5

Annual Meeting	07/27/2009	Imaging:Ultrasound	Imaging:Ultrasound and Ultrasound	1.5
51st AAPM Annual Meeting	07/28/2009	Imaging:Computed Tomography	Advances in CT	1.5
51st AAPM Annual Meeting	07/29/2009	Imaging:None	Breast Imaging and CAD	1.83
51st AAPM Annual Meeting	07/27/2009	Imaging:Mammography	CE - Imaging: Breast Imaging I	0.92
51st AAPM Annual Meeting	07/30/2009	Imaging:Computed Tomography	CE - Imaging: Computed Tomography III	0.92
51st AAPM Annual Meeting	07/27/2009	Imaging:Magnetic Resonance	CE - Imaging: MRI I	0.92
51st AAPM Annual Meeting	07/30/2009	Nuclear Medicine:Dosimetry	CE - Imaging: Radionuclide Imaging III	0.92
51st AAPM Annual Meeting	07/28/2009	Imaging:Computed Tomography	Computed Tomography and Reconstruction	1.83
51st AAPM Annual Meeting	07/28/2009	Imaging:Mammography	Developments in Breast Imaging - In Memoriam of Carolyn Kimme-Smith	2
51st AAPM Annual Meeting	07/26/2009	General Medical Physics:Education	Education Council Symposium	1.5
51st AAPM Annual Meeting	07/26/2009	General Medical Physics:None	General Poster Sessions	8
51st AAPM Annual Meeting	07/26/2009	None:None	John R. Cameron: Young Investigators Symposium	2
51st AAPM Annual Meeting	07/30/2009	Imaging:None	Magnetic Resonance Imaging and Nuclear Medicine Techniques	1.83
51st AAPM Annual Meeting	07/26/2009	Imaging:Computed Tomography	Moderated Poster - Computed Tomography	0.75
51st AAPM Annual Meeting	07/27/2009	Imaging:None	Moderated Poster - MRI and Image Processing	0.75
51st AAPM Annual Meeting	07/26/2009	Imaging:PET	Moderated Poster - SPECT and PET/CT	0.75
51st AAPM Annual Meeting	07/27/2009	Imaging:PACS	Moderated Poster - X-Ray Imaging and PACS	0.75
51st AAPM Annual Meeting	07/27/2009	General Medical Physics:None	President's Symposium: Present and Future Role of Computers in Medicine	2
51st AAPM Annual Meeting	07/26/2009	General Medical Physics:Professional	Professional Council Symposium	1.5
52nd Annual Meeting SAMs	07/20/2010	Diagnostic Radiology:Magnetic Resonance	MRI II-MR Spectroscopy:The physical Basis and Acquisition Strategies	1.5
52nd Annual Meeting SAMs	07/21/2010	Diagnostic Radiology:PET	Radionuclide Imaging II:PET/CT:Technology Updates,Quality Assurance and Applications:Spect/CT:Technology Updates,Quality Assurance and Applications	1.5
AAPM 51st Annual Meeting SAMs	07/28/2009	General Medical Physics:Regulatory/Accreditation	CE - Imaging: MRI II: ACR MRI Accreditation Program Update	1.92
AAPM 51st Annual Meeting SAMs	07/29/2009	Imaging:PET	CE - Imaging: Radionuclide Imaging II: PET/CT: Technology Updates, Quality Assurance and Applications	1.92
AAPM 52nd Annual Meeting	07/20/2010	Diagnostic Radiology:Computed Tomography	Advances in CT Dose Reduction and CT Dose Measurement	1.83
AAPM 52nd Annual Meeting	07/20/2010	Diagnostic Radiology:Computed Tomography	Clinical CT and Dual Energy CT	1.5

AAPM 52nd Annual Meeting	07/20/2010	Diagnostic Radiology:Mammography	Educational Course - Imaging Breast Imaging II	0.92
AAPM 52nd Annual Meeting	07/21/2010	Diagnostic Radiology:Mammography	Educational Course - Imaging Breast Imaging III	0.92
AAPM 52nd Annual Meeting	07/20/2010	Diagnostic Radiology:None	Educational Course - Imaging Multimodality I	0.92
AAPM 52nd Annual Meeting	07/22/2010	None:None	Educational Course - Imaging Multimodality II	0.92
AAPM 52nd Annual Meeting	07/22/2010	Nuclear Medicine:None	Educational Course - Imaging Radionuclide Imaging III	0.92
AAPM 52nd Annual Meeting	07/18/2010	None:None	General Poster Viewing	6
AAPM 52nd Annual Meeting	07/19/2010	Radiation Protection:None	HAZMAT I Training by Roy Parker	1.83
AAPM 52nd Annual Meeting	07/19/2010	Radiation Protection:None	HAZMAT II Training by Roy Parker	1.5
AAPM 52nd Annual Meeting	07/22/2010	Diagnostic Radiology:Mammography	Imaging Performance: Measurement and Modeling	1.83
AAPM 52nd Annual Meeting	07/18/2010	None:None	John R Cameron: Young Investigators Symposium	2
AAPM 52nd Annual Meeting	07/21/2010	Diagnostic Radiology:Mammography	Mammography New Technology	1
AAPM 52nd Annual Meeting	07/21/2010	Diagnostic Radiology:Magnetic Resonance	MRI Safety	1.83
AAPM 52nd Annual Meeting	07/22/2010	Diagnostic Radiology:PET	Practical Considerations of PET	2
AAPM 52nd Annual Meeting	07/19/2010	General Medical Physics:Professional	Presidents Symposium - Diagnosis and Treatment, the Patient s Perspective	2
AAPM 52nd Annual Meeting	07/21/2010	Diagnostic Radiology:Radiography	Radiography, Fluoroscopy, Multimodality CT, and Cardiac, New Technology and Clinical Applications	1.5
AAPM 52nd Annual Meeting	07/18/2010	Radiotherapy:None	Special Symposium on Patient Safety	2
Hands-On Nuclear Medicine Physics Workshop	04/25/2009	Nuclear Medicine:None	Calibration and Handling of Radionuclides	0.67
Hands-On Nuclear Medicine Physics Workshop	04/25/2009	Nuclear Medicine:None	Cardiac Nuclear Medicine Applications and Analysis	0.67
Hands-On Nuclear Medicine Physics Workshop	04/25/2009	Nuclear Medicine:None	Gamma Camera QC	0.67
Hands-On Nuclear Medicine Physics Workshop	04/25/2009	Nuclear Medicine:None	Introduction	0.17
Hands-On Nuclear Medicine Physics Workshop	04/25/2009	Nuclear Medicine:None	Lab A-Radionuclide Calibration	1.5
Hands-On Nuclear Medicine Physics Workshop	04/25/2009	Nuclear Medicine:None	Lab B-Gamma Camera QC	1.5

Physics Workshop				
Hands-On Nuclear Medicine Physics Workshop	04/25/2009	Nuclear Medicine:None	Lab C-SPECT Performance	1.5
Hands-On Nuclear Medicine Physics Workshop	04/25/2009	Nuclear Medicine:None	Lab D-Cardiac Nuclear Medicine Applications	1.5
Hands-On Nuclear Medicine Physics Workshop	04/25/2009	Nuclear Medicine:None	Lab E-Performance/ QC Testing of PET and PET/CT Units	1.5
Hands-On Nuclear Medicine Physics Workshop	04/25/2009	Nuclear Medicine:None	Lab Orientation	0.08
Hands-On Nuclear Medicine Physics Workshop	04/25/2009	Nuclear Medicine:None	Performance / QC Testing of PET/CT Units	0.67
Hands-On Nuclear Medicine Physics Workshop	04/25/2009	Nuclear Medicine:None	Performance/ QC Testing of SPECT and SPECT/CT Units	0.67
Hands-On Nuclear Medicine Physics Workshop	04/25/2009	Nuclear Medicine:None	Questions and Answers Day 2	0.33
Hands-On Nuclear Medicine Physics Workshop	04/25/2009	Nuclear Medicine:None	Questions and Answers Day1	0.58
RSNA 2009, 95th Scientific Assembly and Annual Meeting	11/29/2009	Diagnostic Radiology:None	PH Scientific Poster/Education Exhibit CME:Sunday,Physics	0.5
RSNA 2009, 95th Scientific Assembly and Annual Meeting	12/01/2009	Diagnostic Radiology:Computed Tomography	Physics (CT: Dose)	1.5
RSNA 2009, 95th Scientific Assembly and Annual Meeting	11/30/2009	Radiation Protection:Radiation Protection	Physics Symposium: Therapy Shielding and Physics and Applications of PET/CT	4
RSNA 2009, 95th Scientific Assembly and Annual Meeting	11/30/2009	Diagnostic Radiology:Magnetic Resonance	Update Course in Diagnostic Radiology Physics: CT and MR Imaging—MR-guided Interventional Therapies	1.5
RSNA 2009, 95th Scientific Assembly and Annual Meeting	11/29/2009	Diagnostic Radiology:Magnetic Resonance	Update Course in Diagnostic Radiology Physics: CT and MR Imaging—MR Safety	1.5
RSNA 2010 96th Scientific Assembly and Annual Meeting	12/01/2010	Diagnostic Radiology:Cardiovascular	Advances in Cardiac Nuclear Imaging: SPECTCT and PETCT	1.5
RSNA 2010 96th Scientific Assembly and Annual Meeting	11/30/2010	Nuclear Medicine:None	Essentials of Nuclear Medicine	1.5
RSNA 2010 96th Scientific Assembly and Annual Meeting	11/29/2010	Diagnostic Radiology:Computed Tomography	ISP: Physics CT: Multienergy	1.5

RSNA 2010 96th Scientific Assembly and Annual Meeting	11/28/2010	Radiation Protection:Radiation Protection	Monitoring Radiation Exposure: Standards, Tools and IHE REM	1.5
RSNA 2010 96th Scientific Assembly and Annual Meeting	11/29/2010	Diagnostic Radiology:Computed Tomography	Update Course in Diagnostic Radiology Physics: CT and MR ImagingmdashAssessment of Image Quality	1.5
RSNA 2010 96th Scientific Assembly and Annual Meeting	11/30/2010	Diagnostic Radiology:Computed Tomography	Update Course in Diagnostic Radiology Physics: CT and MR ImagingmdashDose Considerations	1.5
RSNA 2010 96th Scientific Assembly and Annual Meeting	11/28/2010	Diagnostic Radiology:None	UpdatenbspCourse in Diagnostic Radiology Physics: Advances in Digital TomosynthesismdashFrom Physics to Clinical Application: Overview of Tomosynthesis	1.5
Total Released Credits:				151.67

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# Digital Mammography Education Program

## Medical Physicist's Equipment Performance Evaluation for Full Field Digital Mammography (FFDM)

**Instructor: William N. Salk, MS DABR**

**Date: October 14, 2006**

**Location: CentraCare Health Plaza, St. Cloud, MN**

### Schedule of activities:

- |              |  |
|--------------|--|
| 8:00-10:00   | ACR Accreditation program for FFDM – Review Powerpoint presentation material from Priscilla Butler, M.S.                         |
| 10:00- 11:00 | Clinical Experience with Digital Mammography – Review Powerpoint presentation material from Lonie Salkowski, M.D.                |
| 11:00-12:00  | A Review of Full Field Digital Mammography Technology – Review Powerpoint presentation material from J. Ed Barnes, Ph.D, FACR    |
| 12:30-1:00   | Artifacts from Film-Screen and Digital Units – Review Powerpoint presentation material from Charles Wilson, Ph.D.                |
| 1:00-1:30    | Review of FFDM Manufacturers QC Procedures, User Interface and Data Analysis (Fischer) – Review Powerpoint presentation material |
| 1:30-2:00    | Review of FFDM Manufacturers QC Procedures, User Interface and Data Analysis (GE) – Review Powerpoint presentation material      |
| 2:00 -3:00   | Review of FFDM Manufacturers QC Procedures, User Interface and Data Analysis (LoRad) – Review Powerpoint presentation material   |
| 3:00-3:30    | Review of FFDM Manufacturers QC Procedures, User Interface and Data Analysis (Siemens) – Review QC manual                        |
| 3:30-4:00    | Full Field Digital Mammography Surveying Experience – Review Powerpoint presentation material from Charles Wilson, Ph.D.         |

I certify that Anthony D. Murphy, M.S. DABR attended the course described above and received eight (8) hours of continuing education in medical physics related to full field digital mammography.



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William N. Salk, MS DABR

# 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 Therapeutic Radiology and Oncology, the Association of  
University Radiologists, and American Association of Physicists in Medicine*

*Hereby certifies that*

**Anthony Douglas Murphy, M.S.**

*Has pursued an accepted course of graduate study  
and clinical work, has met certain standards and qualifications and  
has passed the examinations conducted under the authority of*

*The American Board of Radiology*

*On this fifth day of November, 2000*

*Thereby demonstrating to the satisfaction of the Board  
that he is qualified to practice the specialty of*

**Diagnostic Radiologic Physics**



R. P. Hutton, Jr.  
President

Alan A. Seibel, M.D.  
Secretary-Treasurer

W. V. O. C. P., A. D.  
Executive Director



# 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 Therapeutic Radiology and Oncology, the Association of University Radiologists, and American Association of Physicists in Medicine*

*Hereby certifies that*

**Anthony Douglas Murphy, M.S.**

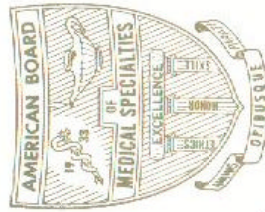
*Has pursued an accepted course of graduate study and clinical work, has met certain standards and qualifications and has passed the examinations conducted under the authority of*

*The American Board of Radiology*

*On this seventh day of June, 1935*

*Thereby demonstrating to the satisfaction of the Board that he is qualified to practice the specialty of*

**Therapeutic Radiological Physics**



*Anthony Douglas Murphy, M.D.*     *William Jewell, M.D.*     *M. Paul Capp, M.D.*  
President     Secretary-Treasurer     Executive Director

# University of Wisconsin-Madison



The Board of Regents of the University of Wisconsin System,  
on the nomination of the faculty, has conferred upon

**ANTHONY DOUGLAS MURPHY**

The Degree of

**MASTER OF SCIENCE**

**MEDICAL PHYSICS**

Together with all honors, rights, and privileges belonging to that degree.

In witness whereof, this diploma is granted.

Given at Madison in the State of Wisconsin

this nineteenth day of May in the year nineteen hundred ninety-one

and of the University the one hundred forty-first.

*Kenneth A. Shaw*

President, University of Wisconsin System

*James T. Stelch*

Chancellor, University of Wisconsin-Madison

*Thomas H. Kegan*

President of the Board of Regents