

Elizabeth M. Carey, MS, DABR, DABMP, DASNM

403 Bellemont Rd.
Pittsboro, NC 27312
Cell: 919-724-1303
lizcarey40@msn.com

Professional Summary

Clinical Medical Physicist seeking a full-time position with a progressive health system/medical physics group where I will offer extensive clinical/client work solutions with experience based problem-solving skills and positive communication. Cross-trained in therapeutic, diagnostic and medical health physics.

Education

- 1984 B.S. Environmental Health, General Health Sciences
Purdue University, West Lafayette, Indiana.
- 1992 M.S.P.H. Radiological Hygiene, Medical Physics/ Medical Health Physics
University of North Carolina, Chapel Hill, North Carolina.
- 2002 M.Ed. Adult and Community College Education, Adult and Continuing Education
North Carolina State University, Raleigh, North Carolina.
-

Current Medical Physicist Experience

May 2018 – Present UNC Hospitals Chapel Hill, NC

Diagnostic Medical Physicist

- Responsible for the MQSA mammography equipment evaluations at UNC Hospitals.
- Perform ACR Accreditation CT equipment physics performance evaluation for UNC Hospitals.
- Perform ICATL CBCT equipment physics performance evaluations.
- Member of the UNC Hospitals CT Protocol Review Committee.
- Participate in ACR Nuclear Medicine equipment physics performance evaluations for UNC Hospitals.
- Oversight of the Radiography/Flouoroscopy Joint Commission equipment physics performance evaluation program at UNC Hospitals.
- Participate in Radiation Dose Calculations/Review for Human Subject Research Studies (Institutional Review Board) and Patient Dose Calculations.
- Lecturer and Lab Assistant in the UNC Nuclear Medicine Technologist Certificate Program.

February 2018 – Present Physics Associates

Roanoke VA

Diagnostic Medical Physicist

- Perform JC/ACR Accreditation CT equipment physics performance evaluation for regional hospitals in southwest Virginia.
- Perform MQSA mammography equipment evaluations for regional hospitals in southwest Virginia.
- Perform quarterly Nuclear Medicine Audits for regional hospitals in southwest Virginia
- Current Radiation Safety Officer for SOVAH Health Danville Radioactive Materials License.
- Joint Commission Radiographic and Fluoroscopic equipment physics performance evaluations.

October 2014 – February 2018 Landauer Medical Physics

Cary, NC

Diagnostic/Therapeutic Medical Physicist

- Provided Therapy Physics Support Services to include monthly output checks, patient specific QA, weekly chart checks, brachytherapy support for clients in Central and Eastern North Carolina.
- Performed JC/ACR Accreditation CT equipment physics performance evaluation.
- Performed MQSA mammography equipment evaluations.
- Performed quarterly Nuclear Medicine Audits.
- Performed ACR Ultrasound physics equipment evaluations.
- Participated in JC/ACR Nuclear Medicine equipment physics performance evaluations.
- Participated in JC/ACR MR equipment physics performance evaluations.
- Joint Commission Radiographic and Fluoroscopic equipment physics performance evaluations.
- Performed licensing activities for various hospitals in North Carolina.
- Conducted Radiation Safety training for fluoroscopy users at various clinics in North Carolina.

October 2012 – September 2014 Rex Healthcare

Clayton, NC

Therapeutic Medical Physicist

- Primary physicist for 2 satellite facilities, one with a 21iX and other with 21EX for Rex Healthcare Radiation Oncology Centers in Clayton and Smithfield, NC, respectively.
- Performed all physics duties associated with both clinics, daily pretreatment chart checks and weekly chart checks, monthly output checks and QA, annual linac QA and reporting, patient specific QA, and treatment planning image registration.
- Provided dosimetry oversight to 2 dosimetrists at both centers.
- Provided onsite Radiation Safety Officer services for both centers to include training, dosimetry review, licensing, and RSC meeting coordination.
- Provided back-up physics support to the Rex Hospital main Radiation Oncology department to include monthly outputs on their 21iX and 21EX, brachytherapy source strength verification and QA, brachytherapy treatment planning and delivery, and SBRT/IMRT patient specific QA.

Diagnostic/Therapeutic Medical Physicist

- Primarily provided Therapy Physics Support Services to include monthly output checks, Patient Specific QA, weekly chart checks, brachytherapy support for clients in Central and Eastern North Carolina.
- Performed JC/ACR Accreditation CT equipment physics performance evaluation.
- Performed MQSA mammography equipment evaluations.
- Performed quarterly Nuclear Medicine Audits.
- Participated in JC/ACR Nuclear Medicine equipment physics performance evaluations
- Participated in JC/ACR MR equipment physics performance evaluations
- Joint Commission Radiographic and Fluoroscopic equipment physics performance evaluations
- Performed licensing activities for various hospitals in North Carolina.
- Conducted Radiation Safety training for fluoroscopy users at various clinics in North Carolina.

December 2002 – November 2008 Moses Cone Health System

Greensboro, NC

Therapeutic Medical Physicist

- Staff physicist for Moses Cone Health System Radiation Oncology Centers in Greensboro, Eden and Asheboro North Carolina
- Lead physicist for the upstart of the Randolph Hospital Cancer Center in Asheboro, NC to include acceptance testing and commissioning of the Elekta Synergy linear accelerator, CMS XiO treatment planning system, the Mosiaq Record and Verify system, and all aspects of physics and dosimetry issues related to opening a new cancer center
- Radiation Safety Officer for the Asheboro, NC Accelerator License.
- Performed all physics duties associated with all clinics.
- Provided dosimetry oversight to 5 dosimetrists at all centers.
- Performed Brachytherapy services at the main cancer center to include gyn tandem and ovoid, cylinders, esophageal, and PBI with mammosite applicator.
- Provided Radiation Safety Officer services for the Moses Cone Hospital to include training, dosimetry review, licensing, and RSC meeting coordination.

Clinical Physics and Dosimetry Experience:

- Acceptance testing and commissioning (Elekta Precise and Synergy, Varian C series and Siemens Mevatron series).
- Routine and annual machine calibration with TG 51 protocol.
- 3D conformal and IMRT treatment planning with Pinnacle, CMS XiO, and Plan UNC (PLUNC).
- IMRT/SBRT quality assurance with Sun Nuclear tools.
- Lung brachytherapy with Oncura I-125 brachymesh.
- HDR brachytherapy using Nucletron afterloader and Oncentra TPS and GammaMed Plus afterloader and Varian Brachyvision TPS.
- I-125 prostate treatment planning using the MMS system, CMS Interplant system and Nucletron First System.
- Proxima GliaSite RTS.
- Leak test and inventory of brachytherapy sources.
- Verification and acceptance testing of treatment planning software prior to clinical use.

Therapy Physics Support Service Facilities:

- UNC Rex Healthcare – Raleigh, NC
- Cape Fear Valley Health System – Gibson Cancer Center, Lumberton, NC
- Wake Radiology Oncology - Cary, NC
- Cancer Centers of North Carolina - Raleigh, NC
- UNC Health System – Chapel Hill, NC
- Moses Cone Health Systems – Greensboro, NC

Diagnostic and Medical Health Physics Experience:

- Qualified to conduct ACR Ultrasound surveys
- Radiation Safety Officer for Johnston Radiation Oncology at Clayton and Johnston Radiation Oncology at Smithfield accelerator licenses.
- Radiation Safety Officer for Moses Cone Memorial Hospital radioactive materials license.
- Radiation Safety Officer for UNC at Chapel Hill and UNC Health Care System.
- Management of the x-ray registration and inspection program for UNC Hospitals and UNC Dental School.
- Preparation and evaluation of diagnostic shielding plans for UNC Health Care Systems.
- Evaluation of safety programs for compliance with state, federal, and institutional regulations.
- Evaluation of safety considerations relating to radiation patients, including the NRC Regulatory Guide 8.39: Patient Release Guidelines.
- Managed a staff of 2 health physicists, 3 safety officers, 1 radiation survey technician and 1 administrative assistant.

Previous Dosimetry and Health Physicist Experience

November 2001 – November 2002	Dosimetrist, UNC Healthcare Systems, Chapel Hill, NC
June 1996 – November 2001	Radiation Safety Officer, UNC-CH, Chapel Hill, NC

Certifications

June 2021	Board Certified Nuclear Physicist (ABSNM), valid through June 1, 2025
June 2005	Board Certified Therapeutic Medical Physicist (ABR), valid through March 01, 2024.
April 2002	Board Certified Medical Health Physicist (ABMP), valid through December 31, 2026.

State Licenses and Registration

State of Alabama	Radiation Services Registrant	68-1150	No Expiration
Commonwealth of VA	Diagnostic, Therapy, Mammography, Inspections, Shielding Design	0000000	9/1/2024
North Carolina	Radiation Services Registrant	S001096	No Expiration

Volunteer Efforts

Task Group No.222 – Member of the Task Group No. 222, AAPM Recommendations for Intraoperative Mesh Brachytherapy.

Teaching/Training Experience

Current Lecturer - UNC-CH Nuclear Medicine Technologist Certificate Program

Spring 2008 - Lecturer, Radiation Biology for UNC-CH Radiology Technologist Certificate Program.

Presentations/Publications

“Radiation Safety with Permanent I-125 Lung Brachytherapy,” E. Carey, M. Manning, D. Burney, March 2008, Brachytherapy 7(2): 164.

“Diagnostic Advantages of Sublobar Resection with Vicryl Mesh I-125 Brachytherapy for Early Stage Non-Small Cell Lung Cancer,” M. Manning, D. Burney, E. Carey, M. Mohamed, March 2008, Brachytherapy 7(2):161.

“Feasibility of Wedge Resection with Permanent I-125 Brachytherapy for Early Lung Cancer in a Community Setting,” M. Manning, D. Burney, E. Carey, M. Mohamed, K. Bell, March 2008, Brachytherapy 7(2):157-158.

“Use of TG23 Verification Package to Evaluate a 3-D Dose Calculation Algorithm”, Dosimetry Session IV, AAPM 35th Annual Meeting, 1993, Washington, D.C., Medical Physics, Vol. 20, No. 3, p. 924 (1993).

“Tissue and Wedge Beam Hardening Corrections”, G.W. Sherouse, E.L. Chaney, T.J. Cullip, S. Chang and E. Carey, Abstract for AAPM 35th Annual Meeting, 1993, Washington, D.C., Medical Physics, Vol. 20, No. 3, p. 878 (1993).

References available on request.

University of North Carolina at Chapel Hill

To all to whom these presents shall come

Greeting

Be it known that

Elizabeth M. Carey

completed the studies and fulfilled the requirements of the Faculty for the Professional Graduate Degree of

Master of Science in Public Health

accordingly been admitted to that degree, with all the rights, honors, and privileges thereto appertaining.

Witness whereof, the Seal of the University and the signatures of duly authorized officers are affixed to this diploma.

Given at Chapel Hill, in the State of North Carolina, this tenth day of May in the year of Our Lord nineteen hundred and ninety-two and of this University the two hundred and third.

R. H. Poole

Chairman of the Board of Governors
The University of North Carolina

Robert F. Strickland

Chairman of the Board of Trustees
The University of North Carolina at Chapel Hill



North Carolina State University



On the recommendation of the Faculty and by virtue of the authority vested in them, the Trustees of the University have conferred upon

Elizabeth Marie Carey
the degree of
Master of Education

In testimony whereof, the seal of the University and the signatures of its officers are hereto affixed
this the eighteenth day of May, two thousand two.

Benz Stuffer

Chairman of the Board of Governors

Walter H. Wood

President of the University of North Carolina

Robert W. Wood

Chairman of the Board of Trustees

Mary Anna Fox

Registrar

Oscar D. Fletcher

Dean, Veterinary Medicine

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 Physicians in Medicine

Hereby certifies that

Elizabeth Marie Carey, MS

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, 2005.

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

Therapeutic Radiologic Physics

Ann A. Hall, M.D.
President

Edward J. Dwyer, MD
Secretary

R.P. Harney, MD
Treasurer



Certificate No. 113211



Made through 2015



Verification of Certification and Maintenance of Certification (MOC)

January 28, 2018

Name: Ms. Elizabeth Marie Carey
Practice Locations: Pittsboro, NC
Participating in MOC

Certificate Therapeutic Medical Physics **Status** Valid **Valid Through** 03/02/2019* **Maintenance** Maintained **MOC Requirements** Meeting

The information provided in this letter is considered the primary source verification. The most current certificate and MOC public reporting status information can be accessed at any time for Ms. Elizabeth Marie Carey by entering the required information in the 'Verify board certification status' search on the ABR website at www.theabr.org.

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

Sincerely,

Valerie Jackson, MD
Executive Director
American Board of Radiology

*Validity of certification is contingent upon participation in Maintenance of Certification. The ABR recommends verification of certification be repeated annually, three business days after the ABR's March 2nd annual review.

The American Board of Medical Physics
ABMP

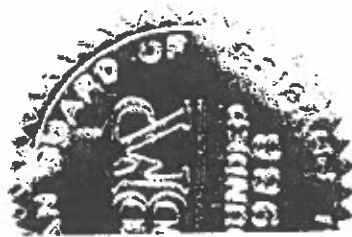
Hereby certifies that

Elizabeth M. Carey, M.S.

*Has satisfactorily met the professional standards
and clinical experience requirements
in medical physics to qualify for*

Certification in Medical Physics

with special competence in
Medical Health Physics



May 3, 2002

DATE

CHAIRPERSON

Kenneth Miller
SECRETARY

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF HEALTH

Office of Radiological Health

This is to acknowledge that

ELIZABETH CAREY

License Number: RH-1235-09-329

PHYSICS ASSOCIATES

5346 PETERS CREEK ROAD, ROANOKE, VA 24019

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

**Bone Density, Chiropractic, Dental, Mammography, Medical, Podiatry, Therapy &
Veterinary**

Date Issued: 7/22/2024

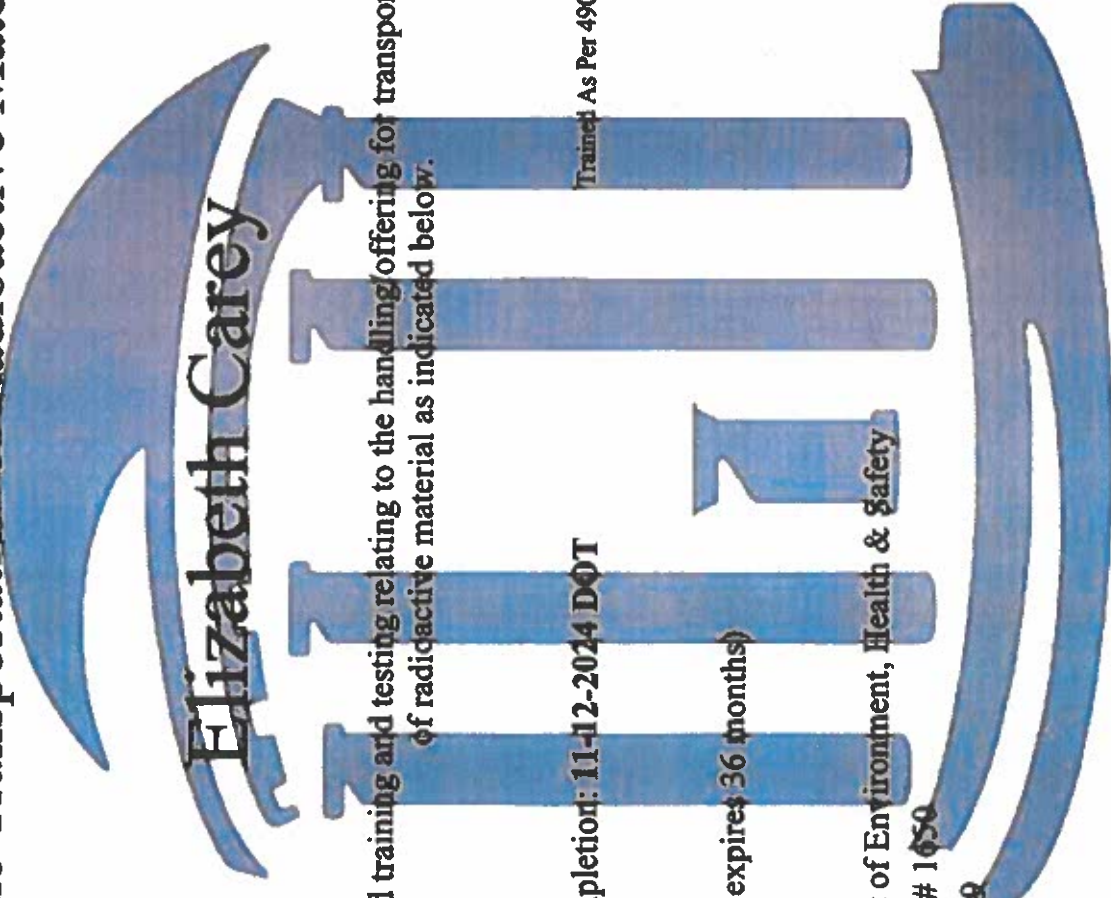
Expiration Date: 9/1/2027

Kelsey Held

Director, Division of X-ray Programs

Certificate of Completion

for the Transportation of Radioactive Materials



Elizabeth Carey

Has completed training and testing relating to the handling/offering for transport/transporting of radioactive material as indicated below.

Date of Training Completion: **11-12-2024 DOT**

Trained As Per 49CFR 172 Subpart H

Date of Expiry (DOT expires 36 months)

UNC-CH Department of Environment, Health & Safety

1120 Estes Drive, CB# 1050

Chapel Hill, NC 27599



STATE OF ALABAMA DEPARTMENT OF
PUBLIC HEALTH

Donald E. Williamson, MD
State Health Officer
May 14, 2012

Jessie Phillips, Manager of Services & Support
ProPhysics
400 Dominion Drive
Suite 109
Morrisville, North Carolina 27560

Re: Registration No. 68-1150

Dear Ms. Phillips:

We have received and evaluated your application for Registration of Radiation Services and Individual Supplemental Form for seven (7) persons. You have been assigned Registration Number 68-1150. Please refer to this number in all correspondence to this Agency.

The following persons have been registered to perform radiation services in Alabama as indicated below:

<u>Name</u>	<u>Surveys</u>
Adam Smith	X
William DeForest	X
Doina Popescu	X
Elizabeth Carey	X
Michelle Hernandez	X
Marion Eaddy	X
Scott Pangburn	X

If you have any questions about the action taken above, please feel free to contact this office at any time.

Sincerely,

Bradley D. Grinstead, Director
X-Ray Compliance Branch
Office of Radiation Control

BDG/NP/daa

Enclosure

The RSA Tower • 201 Monroe Street • Montgomery, AL 36104
P.O. Box 303017 • Montgomery, AL 36130-3017

ELIZABETH M. CAREY, MS, DABR, DABMP,
DASN

MAMMOGRAPHY

CONTINUING EDUCATION

Screening & Diagnostic Mammography Credentialing Criteria

The following information is designed to provide you with documentation of medical physicist mammography credentialing as required by the FDA. The specific criteria are listed, followed by the document that fulfills the criteria. If you or the inspector has any questions about a particular document please call 1-919-724-1303 for assistance.

Physicist Name: Elizabeth Carey

1. Copy of ABR, ABMP or State approval/State license

- ABR, Certificate # P2870
- ABMP

2. Copy of degree

- M.S. Public Health, University of North Carolina

3. 20 semester hours in physics

- FDA initial qualifications letter of October 13, 2009 – no expiration

4. 20 contact hours in mammography surveys

- FDA initial qualifications letter of October 13, 2009 – no expiration

5. Documentation of surveying 1 facility and 10 units

- FDA initial qualifications letter of October 13, 2009 – no expiration

6. 8 CEUs of initial training in a new modality

Digital Mammography:

- MTMI “13th Annual Mammography Update for Physicists” Feb. 07-08, 2009 (6 digital mammography, 6 film/screen systems, 3 stereotactic breast biopsy) no expiration
- Training Attestation September 09, 2009 – no expiration
- Hands-on stereotactic breast biopsy physics survey under qualified medical physicist 10-10-2019.

Tomosynthesis

- HOLOGIC’s “Online Tomosynthesis Training For Medical Physicists in accordance with MQSA guidance for Digital 3-D Mammography Systems” Jan 29, 2015 (3 hours) – no expiration
- HOLOGIC’s “product training in accordance with MQSA guidance for Digital 3-D Mammography Systems” Jan 24, 2015 (5 hours) – no expiration

7. 15 CEUs in a 3 year period (No attestation) (At least 6 CEUs must be in each modality)

- 17 CEUs, MTMI 25th Annual Mammography Review for Physicist, Oct. 24 - 25, 2020
- 15 CEUs from AAPM Online Continuing Education

8. Record of MQSA surveys (2 facilities and 6 units per 24 month period)

- Record of Mammography Surveys for Elizabeth Carey – expires December 31, 2023

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

Please print and complete this form. Signature dates must be within one year from the date of the most recent medical physicist's Annual Survey report. 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

PERSONNEL • MEDICAL PHYSICIST

1. Name: Carey Elizabeth M
LAST NAME FIRST NAME MI 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 06 / 2009
MO 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?	<i>Not applicable</i>	<input type="checkbox"/> ¹ No <input type="checkbox"/> ² Yes
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 *also, effective 2011, Diagnostic Medical Physics	Board	Board
	Year	Year
	ABR	ABR
	2005	
	ABMP	ABMP
	2002	
State licensed?	<input type="checkbox"/> ¹ No <input checked="" type="checkbox"/> ² Yes	<input type="checkbox"/> ¹ No <input type="checkbox"/> ² Yes
State approved?	<input type="checkbox"/> ¹ No <input checked="" type="checkbox"/> ² Yes	<input type="checkbox"/> ¹ No <input type="checkbox"/> ² Yes
Meet the following degree requirement in a physical science from an accredited institution?	<i>Master's degree or higher</i> <input type="checkbox"/> ¹ No <input checked="" type="checkbox"/> ² Yes	<i>Bachelor's degree obtained before training and initial experience</i> <input type="checkbox"/> ¹ No <input type="checkbox"/> ² Yes
Have no less than the following semester hours or equivalent of college undergraduate or graduate level physics?	<i>20 semester hours or equivalent</i> <input type="checkbox"/> ¹ No <input checked="" type="checkbox"/> ² Yes	<i>10 semester hours or equivalent</i> <input type="checkbox"/> ¹ No <input type="checkbox"/> ² Yes
Have the following contact hours of documented specialized training in conducting surveys of mammography facilities?	<i>20 hours</i> <input type="checkbox"/> ¹ No <input checked="" type="checkbox"/> ² Yes	<i>40 hours</i> <input type="checkbox"/> ¹ No <input type="checkbox"/> ² Yes
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).	<i>10 units</i> <input type="checkbox"/> ¹ No <input checked="" type="checkbox"/> ² Yes	<i>20 units</i> <input type="checkbox"/> ¹ No <input type="checkbox"/> ² Yes

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) | <input type="checkbox"/> ¹ No | <input checked="" type="checkbox"/> ² Yes |
| Screen-film mammography | <input type="checkbox"/> ¹ No | <input checked="" type="checkbox"/> ² Yes |
| Digital Breast Tomosynthesis (DBT) | <input type="checkbox"/> ¹ No | <input checked="" type="checkbox"/> ² Yes |

CONTINUING EXPERIENCE

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

facilities: 5 # units: 28

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

¹No ²Yes

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)

¹No ²Yes

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

¹No ²Yes

I certify that the information provided is true and correct.

Executed on: 1-20-2022
DATE

Elizabeth Carey
SIGNATURE OF MEDICAL PHYSICIST

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 Physicians in Medicine

Nowby certifies that

Elizabeth Marie Carey, MS

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, 2005

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

Therapeutic Radiologic Physics

Ann G. Spelt, M.D.
President

Richard J. Payne, M.D.
Secretary

R. P. Heston, J.D.
Treasurer



The American Board of Medical Physics
ABMP

Hereby certifies that

Elizabeth M. Carey, M.S.

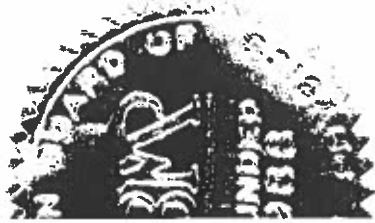
*Has satisfactorily met the professional standards
and clinical experience requirements
in medical physics to qualify for*

Certification in Medical Physics

with special competence in
Medical Health Physics

May 3, 2002

Kenneth Miller





2021 BOARD OF DIRECTORS

December 30, 2021

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Hershey, Pennsylvania

EXECUTIVE DIRECTOR

Tomi Papanikolaou, M.S.
P.O. Box 780518
San Antonio, Texas 78278

www.abmpexam.com

To Whom It May Concern:

This letter is to verify that the individual listed below has been certified in Medical Physics, by the American Board of Medical Physics (ABMP).

Furthermore, this individual has the opportunity to renew her certification by meeting the requirements of the ABMP for recertification at 5-year intervals. The specialty, initial certification and renewal dates are listed.

This information is also available to the public, at www.abmpexam.com.

Individual: **Elizabeth M. Carey, M.S.**

Specialty: **Medical Health Physics**

Year Originally Certified: **2002**

Next Renewal Date: **December 31, 2026**

Please do not hesitate to contact me if you have further questions.

Thank you,

A handwritten signature in blue ink that reads "Tomi Papanikolaou".

Tomi Papanikolaou, M.S.
Executive Director
210-901-9052
e-mail: abmpexam@gmail.com

University of North Carolina at Chapel Hill

To all to whom these presents shall come

Greeting

Be it known that

Elizabeth M. Carey

completed the studies and fulfilled the requirements of the Faculty for
the Professional Graduate Degree of

Master of Science in Public Health

accordingly been admitted to that degree, with all the rights, honors,
and privileges thereto appertaining.

Witness whereof, the Seal of the University and the signatures
of duly authorized officers are affixed to this diploma.

Given at Chapel Hill, in the State of North Carolina, this tenth day of May
in the year of Our Lord nineteen hundred and ninety-two
and of this University the two hundred and third.

Robert H. Poole

Chairman of the Board of Governors

Robert F. Strickland

Chairman of the Board of Trusters
The University of North Carolina at Chapel Hill





Verification of Certification and Maintenance of Certification (MOC)

April 13, 2022


Name: Ms. Elizabeth Marie Carey
Practice Locations: Pittsboro, NC
Participating in MOC

Certificate	Status	Valid Through	Maintenance	MOC Requirements
Therapeutic Medical Physics	Valid	03/01/2024*	Maintained	Meeting

The information provided in this letter is considered the primary source verification. The most current certificate and MOC public reporting status information can be accessed at any time for Ms. Elizabeth Marie Carey by entering the required information in the 'Verify board certification status' search on the ABR website at www.theabr.org.

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

Sincerely,


Brent Wagner, MD, MBA
Executive Director
American Board of Radiology

*Validity of certification is contingent upon participation in Maintenance of Certification. The ABR recommends verification of certification be repeated annually, three business days after the ABR's March 2nd annual review.



Food and Drug Administration
10993 New Hampshire Avenue
Silver Spring, MD 20993

October 13, 2009

Elizabeth M. Carey, MSPH, DABR
ProPhysics Innovations, Inc.
400 Dominion Drive, # 109
Morrisville, NC 27560

Dear Ms. Carey:

After reviewing your credentials, the Division has determined that you meet the initial qualification requirements described in Section 900.12(a)(3)(i) of the final regulations which went into effect on April 28, 1999. A copy of this letter may be provided to your facility as documentation that these requirements are met. For MQSA documentation purposes, you will also need to supply all facilities where you provide mammography services a copy of your current State approval, State license, or Board certification. Please be aware that if your State approval or State license expires after a certain period, you must provide to your facilities a new copy of the documentation after each renewal. Failure to provide your facility with proper valid documentation may lead to a citation.

From the information you provided for our review, your starting date for meeting your continuing education and continuing experience requirement is June 30, 2009. If you have any further questions regarding this matter, please contact the MQSA Hotline at 1-800-838-7715.

Sincerely yours,

A handwritten signature in black ink that reads "Helen J. Barr, M.D.".

Helen J. Barr, M.D., Director
Division of Mammography Quality and Radiation Programs,
Office of Communication, Education, and Radiation Programs
Center for Devices and Radiological Health



Digital Mammography Training Attestation for Elizabeth Carey

I, William DeForest, attest that, to the best of my knowledge and my belief, the following information for Elizabeth M. Carey provided in this declaration is true and correct. I understand that FDA may request additional information to substantiate the statements made in this declaration:

Date	Location	Digital Mammography Unit	Supervising Physicist ¹	Training Hours
12/16/08	Raleigh Radiology Breast Ctr	Hologic Selenia	Michelle Hernandez	4
1/5/09	REX Healthcare	Hologic Selenia - Mobile	Michelle Hernandez	2
2/11/09	Craven Diagnostic Center	Fuji CR Siemens Mammomat 3000 Nova	Michelle Hernandez	5.5
2/12/09	Women's Hosp of Greensboro	Hologic Selenia	Kevin Minter	4
2/17/09	Wake Med Apex	Fuji CR Siemens Mammomat 3000 Nova, Rm 1509	Michelle Hernandez	3.5
2/17/09	Wake Med Apex	Fuji CR Siemens Mammomat 3000 Nova, Rm 1512	Michelle Hernandez	3.5
3/2/09	Duke University Medical Ctr	GE Senograph Essential	Michelle Hernandez	5
6/10/09	Pinehurst Surgical Center	GE DS	William DeForest	4
6/16/09	Raleigh Radiology - Cedarhurst	Hologic Selenia	Michelle Hernandez	4
				35.5

1. Supervising physicists all meet MQSA requirements, have state approval and have FDA letters agreeing that MQSA requirements are met. The physicists are: William DeForest, Michelle Hernandez and Kevin Minter.

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.

William W. DeForest, MS, CHP, DABR, President, ProPhysics Innovations Inc.

Attester's Signature and Title

09/09/09

Date Signed

Stereotactic Breast Biopsy Training Attestation for Elizabeth Carey

I, Doina Popescu, attest that, to the best of my knowledge and my belief, the following information for Elizabeth M. Carey provided in this declaration is true and correct. I understand that FDA may request additional information to substantiate the statements made in this declaration:

Requirement: 1 hands on training SBB Medical Physics Survey under guidance
At least 1 SBB Medical Physics Survey per year
3 hrs Continuing Education in SBB Physics every 36 months

Date	Location	Digital Mammography Unit	Supervising Physicist ¹	Training Hours
10/10/2019	UNC Hospitals – North Carolina Cancer Hospital	Hologic Affirm Stereotactic Breast Biopsy Unit	Doina Popescu	4.0
				4.0

1. Supervising physicists all meet MQSA requirements, have state approval and have FDA letters agreeing that MQSA requirements are met.

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.

Doina Popescu

Doina Popescu, MS, DABR, Landauer MP

10/10/2019

Date Signed

HOLOGIC™

The Women's Health Company



Hereby awards this Certificate of Completion to

Liz Carey

Certified Medical Health Physicist

*For completing 5 hours of HOLOGIC's product training in accordance with MQSA guidance for Digital 3-D Mammography Systems**

Selenia Dimensions™ Quality Control and Set-up Procedures

On this Date: 01-23-2015

Authorized Instructor:

Brian M. Gray

* MQSA guidelines require each Medical Physicist to complete eight hours of product training prior to using the Selenia Dimensions™ for clinical use.



THIS CERTIFIES THAT:
ELIZABETH CAREY
 HAS SUCCESSFULLY COMPLETED THE PROGRAM ENTITLED:
ANNUAL MAMMOGRAPHY UPDATE FOR PHYSICISTS
October 24-25, 2020

This seminar provides 17 hrs of continuing education in mammography for medical physicists in compliance with the requirements of the Mammography Quality Standards Act of 1992 and FDA final rules (21CFR Part 900). Credits to be awarded from CAMPEP. It also includes 8 hours training on the surveying of digital mammography units, 3 hours on stereotactic breast biopsy units, & 9.5 hours on digital breast tomosynthesis (DBT). It includes the unique features of the following FDA approved DBT systems: Hologic Selenia Dimensions; GE Pristina and GE SenoClaire Digital Breast Tomosynthesis (DBT) System, Siemens Mammomat Inspiration with Tomosynthesis Option

(DBT)System and Fujifilm Aspire Cristalle with Digital Breast Tomosynthesis (DBT) Option. This activity is approved by ASRT for continuing education credit for Radiologic Technologist recognized by the ARRT and various states. Credit Hours: 19.5 CategoryA ASRT#: WIZ0130065 Expiration Date 03/1/2021

Emesto A. Arduas, Ph.D.
 MTMI, President

MTMI
 10361 Innovation Drive, STE #400
 Milwaukee, WI 53226



COMMONWEALTH of VIRGINIA

M. NORMAN OLIVER, MD, MA
STATE HEALTH COMMISSIONER

Department of Health
PO BOX 2448
RICHMOND, VA 23218

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

July 26, 2021

Elizabeth Carey
Physics Associates
5346 Peters Creek Road
Roanoke, VA 24019

Dear Ms. Carey:

Based on the information that you provided to this office from a recent update, we are enclosing a certificate for you that indicate the types of inspections you are approved to perform in the Commonwealth of Virginia. This certificate should be made available to your clients and is valid for three years. You will be sent a renewal application approximately two months prior to the expiration date of this certificate.

Please check your certificate for accuracy of the information listed on the certificate. If any of the information on your certificate should change you need to notify this office of those changes otherwise the certificate becomes invalid. Any updated information you provided to us will be changed on our published private inspector list on our website in the near future. Please check this list for accuracy.

If there are any corrections that need to be made to your certificate or listing on our website, please notify Kim Knight or Cindy Thomas at our central office location address: **Virginia Department of Health; Office of Radiological; P. O. Box 2448, Room 730; Richmond, VA 23218.**

Sincerely,

A handwritten signature in cursive script that reads 'Lea A. Perlas'.

Lea A. Perlas
Director, Division of X-ray Programs
Office of Radiological Health

Enclosure

2021- 2022 Mammography Continuing Experience Documentation

Physicist Name: Elizabeth Carey

The following information is provided to demonstrate the aforementioned individual meets the ACR Mammography Survey Continuing Experience requirements of completing MQSA in:

at least 2 facilities, and for at least 6 units in the prior 24 months, and

***1 Stereotactic breast biopsy unit physics survey under a qualified medical physicist.**

Facility	Manufacturer	Model	Date worked completed
UNC Hospitals Hillsborough	GE	Senographe Pristina Room 2	11/12/2019 11/10/2020
UNC Hospitals Cancer Hospital	GE	Essential Room 5	03/29/2022 03/25/2021
UNC Hospitals Cancer Hospital	GE	Pristina Room 1	07/28/2021
UNC Hospitals Cancer Hospital	GE	Essential Room 2	03/10/2022 03/04/2021
UNC Hospitals Cancer Hospital	GE	Essential Room 3	03/01/2022 03/15/2021
UNC Hospitals Cancer Hospital	GE	Essential Room 4	03/28/2022 03/09/2021
UNC Hospitals Cancer Hospital	GE	Essential Room 6	03/03/2022 03/16/2021
UNC Hospitals Imaging and Spine Center	GE	Essential Room 1	03/11/2022 03/12/2021
UNC Hospitals Imaging and Spine Center	GE	Essential Room 2	03/04/2022 03/05/2021
UNC Hospitals Hillsborough	GE	Essential/Senoclaire Room 1	03/16/2022 03/11/2021
UNC Hospitals Ambulatory Care Center	GE	Essential	07/29/2020 07/29/2021
UNC Hospitals – NC Cancer Center	Hologic	Affirm Stereotactic Biopsy Prone Unit	10/10/2019* 10/29/2020
UNC Hospitals - Burlington Imaging Center	GE	Essential	08/04/2021

I certify that the above information is representative of the mammography surveys I completed in the calendar years 2021 and 2022.

Elizabeth Carey

Elizabeth Carey, MSPH, DABR, DABMP

Certified Medical Physicist,

UNC Hospitals, 101 Manning Dr. Chapel Hill, NC 27514

Contract physicist Physics Associates, LLC, 5346 Peters Creek Rd., Roanoke, VA 24019



Hereby awards this Certificate of Completion to

Elizabeth Carey, MS, DABR

3 hours of Hologic's Online Tomosynthesis Training
For Medical Physicists in accordance with MQSA guidance for
Digital 3-D Mammography Systems*

Selenia® Dimensions® Quality Control and Set-up Procedures

On this Date: January 29, 2015

Authorized by:

A handwritten signature in black ink, appearing to read "Lori Fontaine", is written over a horizontal line.

Lori Fontaine VP, Clinical & Regulatory

* MQSA guidelines require each Medical Physicist to complete eight hours of product training prior to using the Selenia Dimensions™ for clinical use.



MEDICAL PHYSICIST'S STEREOTACTIC UNIT QC TEST SUMMARY

Site Name	UNC Hospitals, NC Cancer Hospital
Address	101 Manning Dr., Chapel Hill, NC
X-Ray Unit Manufacturer	Hologic
Date of Installation	10/10/2019
Film (mfr & type)	NA
Film Processor Mfr	NA
Digital Image Receptor Mfr	NA
Medical Physicist's Name	Elizabeth Carey, MS, DABR, UNC Hospital Medical Physicist Doina Popescu, MS, DABR Landauer Qualified Medical Physicist

Report Date	10/10/2019
Survey Date	10/10/2019
Model	Affirm
Room ID	Stereo Room
Screen (mfr & type)	NA
Model	NA
Model	NA
Signature	<i>[Handwritten Signature]</i>

Doina Popescu

Medical Physicist's QC Tests

	PASS/FAIL
1. Stereotactic Breast Biopsy Unit Assembly Evaluation	PASS
2. Collimation Assessment	
A. X-ray field adequately matches image receptor	PASS
B. Biopsy window generally centered over digital image receptor <i>(NA if film used)</i>	PASS
3. Focal Spot Performance and System Limiting Resolution	
A. Focal spot performance acceptable <i>(NA if digital used)</i>	NA
B. Digital system spatial resolution acceptable <i>(NA if film used)</i>	PASS
4. kVp Accuracy and Reproducibility	
Measured average kVp within $\pm 5\%$ of indicated kVp	PASS
kVp coefficient of variation ≤ 0.02	PASS
5. Beam Quality Assessment (Half-Value Layer Measurement)	
HVL is within acceptable lower and upper limits at all kVp values tested	PASS
6. AEC System or Manual Exposure Performance Assessment	
Optical density or signal range acceptable	PASS
7. Receptor Speed Uniformity	
Screen speed uniformity or digital receptor uniformity acceptable	PASS
8. Breast Entrance Exposure, Average Glandular Dose and Exposure Reproducibility	
Exposure reproducibility is within acceptable limits	PASS
Average glandular dose to a 4.2 cm thick breast is ≤ 3 mGy (300 mrad)	PASS
	163 mrad
9. Image Quality Evaluation	
Phantom image quality is acceptable	PASS
Phantom type: <input type="checkbox"/> ACR Mammography Accreditation Phantom <input checked="" type="checkbox"/> ACR Mini Phantom	
Phantom image quality scores: Fibers 3.0 3.0 Masses 3.5	
10. Artifact Evaluation	
Artifacts were not apparent or not significant:	PASS
Artifacts Identified:	
11. Localization Accuracy Test	
Localization and sampling accurate/object captured	NA

*** YOUR MEDICAL PHYSICIST MUST SUMMARIZE HIS/HER RESULTS ON THIS FORM ***

Export a CSV file containing your entire record of CME activities outside of any chosen date range.

MULTI-SOCIETY CREDIT REPORT FOR Elizabeth Carey
 REPORT DATE: 07/13/2020
 CREDIT TYPE: ALL

DATE RANGE: 01/01/2020 TO: 07/13/2020

SPONSOR	PROGRAM	SESSION ID	DESCRIPTION	DATE	TYPE	EARNED
APM	2018 AAPM Annual Meeting		Imaging Artifacts - CT, MRI, and Mammography	07/10/2020	SAM	
APM	AAPM Online Continuing Education		MQSA Compliance Guidance-(Diagnostic Radiology: Mammography)	07/10/2020	SA-CME	
APM	2020 AAPM Virtual Spring Clinical Meeting		Update on Stereotactic Breast Imaging	07/09/2020	SAM	
APM	AAPM Online Continuing Education		BITCOE Accreditation of Stereotactic Breast Biopsy and Breast Ultrasound Systems-(Diagnostic Radiology: Mammography)	07/06/2020	SA-CME	
APM	2019 AAPM Annual Meeting		Communicating Benefit to Risk Ratio from Radiology Exams to the Patient and Provider	05/13/2020	SAM	
APM	AAPM Online Continuing Education		SBB vs. Mammography: Image Quality and Dose-(Diagnostic Radiology: Mammography)	05/13/2020	SA-CME	
APM	2018 AAPM Annual Meeting		In Memoriam of Lynn Verhey: Clinical Physicists Must Know and Be Involved in Treatment Planning	05/11/2020	SAM	
APM	2018 AAPM Annual Meeting		Hiding the Complexity in Treatment Planning/Automation	05/06/2020	SAM	
APM	AAPM Online Continuing Education		QC Requirements for the Hologic Dimensions and GE SenoClaire Digital Breast Tomosynthesis Units-(Diagnostic Radiology: Mammography)	05/06/2020	SA-CME	
APM	AAPM Online Continuing Education		An Overview of the New ACR DBT QC Tests and Phantom (2019)-(Diagnostic Radiology: Mammography)	03/11/2020	SA-CME	
APM	AAPM Online Continuing Education		Acceptance Testing Converted CR to DR Systems-(Diagnostic Radiology: Digital Radiography)	03/11/2020	SA-CME	
APM	AAPM Online Continuing Education		Conventional Linac Acceptance Testing-(Radiotherapy: External Beam)	03/11/2020	SA-CME	
APM	2019 AAPM Annual Meeting		Vendor Related Mammography Updates	03/09/2020	SAM	
APM	AAPM Online Continuing Education		Evaluating the Performance of Stereotactic Breast Imaging Biopsy Systems (2019)-(Diagnostic Radiology: Mammography)	03/05/2020	SA-CME	
APM	AAPM Online Continuing Education		Accreditation of Stereotactic Breast Biopsy and Breast Ultrasound Systems-(Diagnostic Radiology: Mammography)	03/05/2020	SA-CME	
APM	AAPM Online Continuing Education		Surveying and QC of Stereotactic Breast Biopsy Units for ACR Accreditation-(Diagnostic Radiology: Mammography)	03/04/2020	SA-CME	
APM	AAPM Online Continuing Education		Multi-Modality Stereotactic Breast Biopsy Systems-(Diagnostic Radiology: Mammography)	03/04/2020	SA-CME	
APM	AAPM Online Continuing Education		Solid-state dosimeters: A new approach for mammography measurements-(Diagnostic Radiology: Mammography)	01/28/2020	SA-CME	
APM	AAPM Online Continuing Education		Establishing a SBRT Clinic - Physics 1-(Radiotherapy: Stereotactic)	01/23/2020	SA-CME	

Mammography SA-CME CREDIT EARNED 10
 Mammography SAM CREDIT EARNED 5

Specialty Detail

Focus	Credit Type	Credit
NONE	SAM	11
Self-Assessment CME	SA-CME	13

ELIZABETH M. CAREY, MS, DABR, DABMP,
DASNM

COMPUTED TOMOGRAPHY

CONTINUING EDUCATION

Computed Tomography Accreditation Credentialing Criteria

Physicist Name: **Elizabeth Carey**

Qualifications	Medical Physicist
Initial	Board Certified
	Certified in Diagnostic Radiological Physics or Radiological Physics by the American Board of Radiology; in Diagnostic Imaging Physics the American Board of Medical Physics; or in Diagnostic Radiology Physics by the Canadian College of Physicists in Medicine
	OR
	Not Board Certified in Required Subspecialty
	* Graduate Degree in medical physics, radiologic physics, physics or other relevant physical science or engineering discipline from an accredited institution and
	* Formal coursework in the biological sciences with at least :
	1 course in biology or radiation biology, and
	1 course in anatomy, physiology, or similar topics related to the practice of medical physics
	* 3 years of documented experience in a clinical setting
	OR
	<u>Grandfathered</u>
	Conducted surveys of at least 3 CT units between January 1, 2007 and January 1, 2010
Continuing Education	Upon renewal, 2 CT unit surveys in prior 24 months
Continuing Education	Upon renewal, 15 CEU/CME (1/2 Cat 1) in prior 36 months (must include credits pertinent to the accredited modality)
1.	Initial Qualifications
	Board Certification by ABMP
2.	Continuing Experience
	13 CT unit surveys in the past 12 months
3.	Continuing Education
	98.77 CEUs from 01/01/2019 – 04/13/2022



2021 Computed Tomography Continuing Experience Documentation

Physicist Name: Elizabeth Carey

The following information is provided to demonstrate the aforementioned individual meets the Computed Tomography Continuing Experience requirements of completing surveys of at least 2 CT units in the prior 24 months.

Facility	Manufacturer	Model	Date worked completed
UNC Medical Center	Siemens	Definition AS (Rm 4)	09/09/2021
UNC Medical Center	Siemens	Definition AS (Rm 1)	10/16/2021
UNC Spine and Imaging Center	Siemens	Definition AS 128	9/01/2021
UNC Medical Center	Siemens	Sensation 64 (VIR)	9/16/2021
UNC Medical Center	Siemens	Sensation 64 (Rm 2)	10/16/2021
Biomedical Research Imaging Ctr	Siemens	Biograph mCT	9/25/2019
UNC Medical Center	Siemens	Biographe 40 (Sensation 40)	9/16/2021
UNC Medical Center	Siemens	mCT (Definition AS)	9/16/2021
UNC Medical Center	Siemens	Somatom Flash (Rm3)	11/04/2021
UNC Medical Center	Siemens	Sensation 64 (Rm 5)	9/9/2021
UNC Hospitals Hillsborough	Siemens	Definition AS	9/20/2021
UNC Hospitals Hillsborough	Siemens	Sensation 64	9/20/2021

I certify that the above information is representative of the Computed Tomography surveys I completed in the calendar year 2021.

Elizabeth Carey

Elizabeth Carey, MSPH, DABR, DABMP

Medical Physicist

I certify that the above information is representative of the Computed Tomography surveys Elizabeth Carey has completed in calendar 2019.

Dr. M. Ivanovic, Ph.D. DABR

Physicist, UNC Hospitals, Chapel Hill, NC

The American Board of Medical Physics
ABMP

Hereby certifies that

Elizabeth M. Carey, M.S.

*Has satisfactorily met the professional standards
and clinical experience requirements
in medical physics to qualify for*

Certification in Medical Physics

with special competence in

Medical Health Physics

May 1, 2002

Charlotte Muller





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P.O. Box 780518
San Antonio, Texas 78278

www.abmpexam.com

To Whom It May Concern:

This letter is to verify that the individual listed below has been certified in Medical Physics, by the American Board of Medical Physics (ABMP).

Furthermore, this individual has the opportunity to renew her certification by meeting the requirements of the ABMP for recertification at 5-year intervals. The specialty, initial certification and renewal dates are listed.

This information is also available to the public, at www.abmpexam.com.

Individual: **Elizabeth M. Carey, M.S.**

Specialty: **Medical Health Physics**

Year Originally Certified: **2002**

Next Renewal Date: **December 31, 2026**

Please do not hesitate to contact me if you have further questions.

Thank you,

Tomi Papanikolaou, M.S.
Executive Director
210-901-9052
e-mail: abmpexam@gmail.com

DATE RANGE: 01/01/2019 TO: 04/13/2022

CREDIT TYPE: ALL

REPORT DATE: 04/13/2022

SPONSOR	PROGRAM	SESSION ID	DESCRIPTION	DATE	TYPE	EARNED
AAPM	2020 AAPM Virtual Spring Clinical Meeting		Managing Image Guidance Doses to Radiotherapy Patients	02/10/2022	SAM	2
			NONE		SAM	2
AAPM	2022 AAPM Online Learning Center		2022 AAPM Online Learning Center: 2958-N Managing Image Guidance Doses to Radiotherapy Patients	02/10/2022	MPCEC	2
			Radiotherapy None			
AAPM	AAPM Online Continuing Education		Identifying Image Artifacts, Their Causes, and How to Fix Them-(Diagnostic Radiology: Quality Management)	02/09/2022	SA-CME	1
			Self-Assessment CME		SA-CME	1
AAPM	2022 AAPM Online Learning Center		2022 AAPM Online Learning Center: 3093-N Identifying Image Artifacts, Their Causes, and How to Fix Them	02/09/2022	MPCEC	1
			Diagnostic Radiology Quality Management			
AAPM	2020 Joint AAPM COMP Virtual Meeting		End to End (E2E) Testing in Radiation Therapy	02/08/2022	SAM	1
			NONE		SAM	1
AAPM	AAPM Online Continuing Education		Effects of shortened acquisition time on accuracy and precision of quantitative estimates of organ activity-(Radiotherapy: Nuclear Medicine)	02/08/2022	SA-CME	1
			Self-Assessment CME		SA-CME	1
AAPM	2022 AAPM Online Learning Center		2022 AAPM Online Learning Center: 2088-N Effects of shortened acquisition time on accuracy and precision of quantitative estimates of organ activity	02/08/2022	MPCEC	1
			Radiotherapy Nuclear Medicine			
AAPM	2022 AAPM Online Learning Center		2022 AAPM Online Learning Center: 3065-N End to End E2E Testing in Radiation Therapy	02/08/2022	MPCEC	1
			Radiotherapy Quality Management			
AAPM	AAPM Online Continuing Education		Characterization of the count rate performance of modern gamma cameras-(Nuclear Medicine: None)	02/04/2022	SA-CME	1
			Self-Assessment CME		SA-CME	1
AAPM	2022 AAPM Online Learning Center		2022 AAPM Online Learning Center: 2171-N Characterization of the count rate performance of modern gamma cameras	02/04/2022	MPCEC	1
			Nuclear Medicine None			
AAPM	AAPM Online Continuing Education		Real Time B-mode ultrasound Quality control test procedures-(Diagnostic Radiology: Ultrasound)	02/02/2022	SA-CME	1
			Self-Assessment CME		SA-CME	1
AAPM	AAPM Online Continuing Education		Digital Breast Tomosynthesis Unique Features of the GE SenoClaire Tomosynthesis System-(Diagnostic Radiology: Mammography)	02/02/2022	SA-CME	1
			Self-Assessment CME		SA-CME	1
AAPM	AAPM Online Continuing Education		Gamma Camera and SPECT Basics & Performance-(Nuclear Medicine: None)	02/02/2022	SA-CME	1
			Self-Assessment CME		SA-CME	1
AAPM	2022 AAPM Online Learning Center		2022 AAPM Online Learning Center: 4258-N Digital Breast Tomosynthesis Unique Features of the GE SenoClaire Tomosynthesis System	02/02/2022	MPCEC	1
			Diagnostic Radiology Mammography			
AAPM	2022 AAPM Online Learning Center		2022 AAPM Online Learning Center: 1857-N Real Time IBI-mode ultrasound Quality control test procedures	02/02/2022	MPCEC	1
			Diagnostic Radiology Ultrasound			
AAPM	2022 AAPM Online Learning Center		2022 AAPM Online Learning Center: 2937-N Gamma Camera and SPECT Basics Performance	02/02/2022	MPCEC	1
			Nuclear Medicine None			
AAPM	AAPM Online		PET/CT QA and Acceptance Testing-(Nuclear	02/01/2022	SA-CME	1

		Medicine: Quality Management)			
	Continuing Education	Self-Assessment CME		SA-CME	1
AAPM	AAPM Online Continuing Education	Accuracy of HVL measurements utilizing solid state detectors for radiography and fluoroscopy X-ray systems-(Diagnostic Radiology: Digital Radiography)	02/01/2022	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	AAPM Online Continuing Education	Releasing Nuclear Medicine Patients to the Public: Dose Calculations and Discharge Instructions-(Nuclear Medicine: Radiation Protection)	02/01/2022	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	2022 AAPM Online Learning Center	2022 AAPM Online Learning Center: 2213-N PETCT QA and Acceptance Testing	02/01/2022	MPCEC	1
		Nuclear Medicine Quality Management			
AAPM	2022 AAPM Online Learning Center	2022 AAPM Online Learning Center: 1837-N Releasing Nuclear Medicine Patients to the Public: Dose Calculations and Discharge Instructions	02/01/2022	MPCEC	1
		Nuclear Medicine Radiation Protection			
AAPM	2022 AAPM Online Learning Center	2022 AAPM Online Learning Center: 4259-N Accuracy of HVL measurements utilizing solid state detectors for radiography and fluoroscopy X-ray systems	02/01/2022	MPCEC	1
		Diagnostic Radiology Digital Radiography			
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Basic Ultrasound Principles	06/11/2021	MPCEC	1.25
		Diagnostic Radiology Ultrasound			
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Lab A - Image Uniformity	06/11/2021	MPCEC	0.75
		Diagnostic Radiology Ultrasound			
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Lab E - Low Contrast Detectability	06/11/2021	MPCEC	0.75
		Diagnostic Radiology Ultrasound			
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: ACR Ultrasound Accreditation: Role of the Medical Physicist	06/11/2021	MPCEC	1.5
		Diagnostic Radiology Ultrasound			
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Knobology Review	06/11/2021	MPCEC	1
		Diagnostic Radiology Ultrasound			
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Lab D - Axial and Lateral Resolution	06/11/2021	MPCEC	0.75
		Diagnostic Radiology Ultrasound			
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Emerging Technologies	06/11/2021	MPCEC	0.75
		Diagnostic Radiology Ultrasound			
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Lab C - Image Uniformity Caliper Accuracy horizontal and vertical	06/11/2021	MPCEC	0.75
		Diagnostic Radiology Ultrasound			
Medical Technology	Hands-on Ultrasound Physics	Hands-on Ultrasound Physics Workshop: Real-time Doppler and Elastography Imaging	06/11/2021	MPCEC	1.25

Management Institute	Workshop	Diagnostic Radiology Ultrasound				
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Ultrasound Imaging Artifacts Error Sources	06/11/2021	MPCEC		1
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Real-time Ultrasound Imaging	06/11/2021	MPCEC		1
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Clinical Safety Proper Scanning Techniques	06/11/2021	MPCEC		1
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Lab B - Doppler and Elastography	06/11/2021	MPCEC		0.75
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Lab F - Maximum Penetration Depth and Dead Zone	06/11/2021	MPCEC		0.75
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Ultrasound QC Phantoms and Tests	06/11/2021	MPCEC		1
AAPM	AAPM Online Continuing Education	Quantitation of SPECT Performance-(Nuclear Medicine: None)	05/17/2021	SA-CME		1
AAPM	2021 AAPM Online Continuing Education	2021 AAPM Online Continuing Education: Quantitation of SPECT Performance	05/17/2021	MPCEC		1
AAPM	AAPM Online Continuing Education	PET Scanner Performance: Quality Assurance and Acceptance Testing-(Nuclear Medicine: None)	05/13/2021	SA-CME		1
AAPM	2021 AAPM Online Continuing Education	2021 AAPM Online Continuing Education: PET Scanner Performance: Quality Assurance and Acceptance Testing	05/13/2021	MPCEC		1
AAPM	AAPM Online Continuing Education	Diagnostic Ultrasound QA/QC Hands-on Workshop-(Diagnostic Radiology: Ultrasound)	03/04/2021	SA-CME		1
AAPM	2021 AAPM Online Continuing Education	2021 AAPM Online Continuing Education: Diagnostic Ultrasound QAQC Hands-on Workshop	03/04/2021	MPCEC		1
AAPM	2017 AAPM Annual Meeting	Best Practices for Physics Plan and Chart Review: Report of AAPM Task Group 275	12/23/2020	SAM		1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2573-N Best Practices for Physics Plan and Chart Review: Report of AAPM Task Group 275	12/23/2020	MPCEC		1
AAPM	2017 AAPM Spring	Radiotherapy Quality Management Radiation Safety Officers Review	12/15/2020	SAM		2

	Clinical Meeting	NONE		SAM	2
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2424-N Radiation Safety Officers Review	12/15/2020	MPCEC	2
		General Medical Physics Professional			
AAPM	2020 Joint AAPM COMP Virtual Meeting	Diagnostic Imaging and 100 mSv+ Doses	12/14/2020	SAM	1
		NONE		SAM	1
AAPM	2020 AAPM Virtual Spring Clinical Meeting	FUNdamental of Small Field Dosimetry	12/14/2020	SAM	1
		NONE		SAM	1
AAPM	AAPM Online Continuing Education	Ongoing quality control in digital radiography: Report of AAPM Imaging Physics Committee Task Group 151-(Diagnostic Radiology: Digital Radiography)	12/14/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	AAPM Online Continuing Education	Calibration of AEC for Digital Radiography-(Diagnostic Radiology: Digital Radiography)	12/14/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 1902-N Calibration of AEC for Digital Radiography	12/14/2020	MPCEC	1
		Diagnostic Radiology Digital Radiography			
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2947-N Ongoing quality control in digital radiography: Report of AAPM Imaging Physics Committee Task Group 151	12/14/2020	MPCEC	1
		Diagnostic Radiology Digital Radiography			
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2959-N FUNdamental of Small Field Dosimetry	12/14/2020	MPCEC	1
		Radiotherapy Dosimetry			
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 3008-N Diagnostic Imaging and 100 mSv+ Doses	12/14/2020	MPCEC	1
		Diagnostic Radiology Patient Safety			
AAPM	AAPM Online Continuing Education	Image Quality for the Radiotherapy Physicists: Review of the Fundamentals and Automated Techniques-(Radiotherapy: Imaging)	12/10/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2248-N Image Quality for the Radiotherapy Physicists: Review of the Fundamentals and Automated Techniques	12/10/2020	MPCEC	1
		Radiotherapy Imaging			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Breast Density Measurements-Volpara	10/24/2020	MPCEC	0.5
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Digital Mammography & Digital Breast Tomosynthesis QC Programs-GE Pristina	10/24/2020	MPCEC	0.67
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Evaluation of Stereotactic/Tomosynthesis-Guided Breast Biopsy	10/24/2020	MPCEC	1
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Questions and Answers I	10/24/2020	MPCEC	1
		Diagnostic Radiology			

		Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Surveying/QC of Stereotactic Breast Biopsy Units	10/24/2020	MPCEC	1
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: ACR: What it is, What it isn't, and What it can do for you	10/24/2020	MPCEC	1
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Digital Mammography & Digital Breast Tomosynthesis QC Programs-Fuji	10/24/2020	MPCEC	0.67
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Digital Mammography & Digital Breast Tomosynthesis QC Programs-Siemens	10/24/2020	MPCEC	0.67
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Overview of Digital Breast Tomosynthesis	10/24/2020	MPCEC	0.5
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Stereotactic Breast Biopsy: Clinical Considerations and Comparison to Alternative Biopsy Techniques	10/24/2020	MPCEC	1
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: ACR FFDM QC Manual and Phantom	10/24/2020	MPCEC	1
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Digital Breast Imaging Technology and Technical Considerations for DBT Imaging and Design	10/24/2020	MPCEC	1.5
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Digital Mammography & Digital Breast Tomosynthesis QC Programs-Hologic	10/24/2020	MPCEC	0.67
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: MQSA EQUIP	10/24/2020	MPCEC	1
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Soft Copy Display: Image Communication and QC	10/24/2020	MPCEC	0.83
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Welcome and Course Overview	10/24/2020	MPCEC	0.17
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography	24th Annual Mammography Update for Physicists: Clinical Experience with Digital Breast Tomosynthesis	10/24/2020	MPCEC	1

	Update for Physicists	Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Digital Mammography & Digital Breast Tomosynthesis QC Programs-GE Senoclaire	10/24/2020	MPCEC	0.67
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Motivations and Strategies for Transitioning to the ACR DMQC Manual	10/24/2020	MPCEC	1
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Questions and Answers II	10/24/2020	MPCEC	0.17
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: The Diagnosis and Treatment of Breast Cancer	10/24/2020	MPCEC	1
		Diagnostic Radiology Mammography			
AAPM	2020 AAPM Virtual Spring Clinical Meeting	Communicating Risk: CT and CARES Campaign	08/06/2020	SAM	2
		NONE		SAM	2
AAPM	2020 AAPM Virtual Spring Clinical Meeting	ACR MRI Update	08/06/2020	SAM	1
		NONE		SAM	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2972-N ACR MRI Update	08/06/2020	MPCEC	1
		Diagnostic Radiology Magnetic Resonance			
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2974-N Communicating Risk: CT and CARES Campaign	08/06/2020	MPCEC	2
		Radiation Protection Patient Safety			
AAPM	2018 AAPM Annual Meeting	Imaging Artifacts - CT, MRI, and Mammography	07/10/2020	SAM	2
		NONE		SAM	2
AAPM	AAPM Online Continuing Education	MQSA Compliance Guidance-(Diagnostic Radiology: Mammography)	07/10/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2669-N Imaging Artifacts - CT, MRI, and Mammography	07/10/2020	MPCEC	2
		Diagnostic Radiology Quality Management			
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 1597-N MQSA Compliance Guidance	07/10/2020	MPCEC	1
		Diagnostic Radiology Mammography			
AAPM	2020 AAPM Virtual Spring Clinical Meeting	Update on Stereotactic Breast Imaging	07/09/2020	SAM	1
		NONE		SAM	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2975-N Update on Stereotactic Breast Imaging	07/09/2020	MPCEC	1
		Diagnostic Radiology Mammography			
AAPM	AAPM Online Continuing Education	BICOE Accreditation of Stereotactic Breast Biopsy and Breast Ultrasound Systems-(Diagnostic Radiology: Mammography)	07/06/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1

AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2936-N BICOE Accreditation of Stereotactic Breast Biopsy and Breast Ultrasound Systems Diagnostic Radiology Mammography	07/06/2020	MPCEC	1
AAPM	2019 AAPM Annual Meeting	Communicating Benefit to Risk Ratio from Radiology Exams to the Patient and Provider NONE	05/13/2020	SAM SAM	2 2
AAPM	AAPM Online Continuing Education	SBB vs. Mammography: Image Quality and Dose- (Diagnostic Radiology: Mammography)	05/13/2020	SA-CME	1
AAPM	2020 AAPM Online Continuing Education	Self-Assessment CME 2020 AAPM Online Continuing Education: 2803-N Communicating Benefit to Risk Ratio from Radiology Exams to the Patient and Provider Diagnostic Radiology Quality Management	05/13/2020	SA-CME MPCEC	1 2
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2408-N SBB vs Mammography: Image Quality and Dose	05/13/2020	MPCEC	1
AAPM	2018 AAPM Annual Meeting	Diagnostic Radiology Mammography In Memoriam of Lynn Verhey: Clinical Physicists Must Know and Be Involved in Treatment Planning NONE	05/11/2020	SAM SAM	2 2
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2667-N In Memoriam of Lynn Verhey: Clinical Physicists Must Know and Be Involved in Treatment Planning Radiotherapy Dosimetry	05/11/2020	MPCEC	2
AAPM	2018 AAPM Annual Meeting	Hiding the Complexity in Treatment Planning/Automation NONE	05/06/2020	SAM SAM	2 2
AAPM	AAPM Online Continuing Education	QC Requirements for the Hologic Dimensions and GE SenoClaire Digital Breast Tomosynthesis Units- (Diagnostic Radiology: Mammography)	05/06/2020	SA-CME	1
AAPM	2020 AAPM Online Continuing Education	Self-Assessment CME 2020 AAPM Online Continuing Education: 2691-N Hiding the Complexity in Treatment Planning Automation Radiotherapy Dosimetry	05/06/2020	SA-CME MPCEC	1 2
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2939-N QC Requirements for the Hologic Dimensions and GE SenoClaire Digital Breast Tomosynthesis Units Diagnostic Radiology Mammography	05/06/2020	MPCEC	1
AAPM	AAPM Online Continuing Education	Conventional Linac Acceptance Testing- (Radiotherapy: External Beam) Self-Assessment CME	03/11/2020	SA-CME SA-CME	1 1
AAPM	AAPM Online Continuing Education	Acceptance Testing Converted CR to DR Systems- (Diagnostic Radiology: Digital Radiography) Self-Assessment CME	03/11/2020	SA-CME SA-CME	1 1
AAPM	AAPM Online Continuing Education	An Overview of the New ACR DBT QC Tests and Phantom (2019)-(Diagnostic Radiology: Mammography) Self-Assessment CME	03/11/2020	SA-CME SA-CME	1 1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2920-N Acceptance Testing Converted CR to DR Systems Diagnostic Radiology Digital Radiography	03/11/2020	MPCEC	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2926-N Conventional Linac Acceptance Testing Radiotherapy External Beam	03/11/2020	MPCEC	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2892-N An Overview of the New ACR DBT QC Tests and Phantom (2019) Diagnostic Radiology Mammography	03/11/2020	MPCEC	1
AAPM	2019 AAPM Annual Meeting	Vendor Related Mammography Updates	03/09/2020	SAM	2

		NONE		SAM	2
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2881-N Vendor Related Mammography Updates	03/09/2020	MPCEC	2
		Diagnostic Radiology Mammography			
AAPM	AAPM Online Continuing Education	Accreditation of Stereotactic Breast Biopsy and Breast Ultrasound Systems-(Diagnostic Radiology: Mammography)	03/05/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	AAPM Online Continuing Education	Evaluating the Performance of Stereotactic Breast Imaging Biopsy Systems (2019)-(Diagnostic Radiology: Mammography)	03/05/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2209-N Accreditation of Stereotactic Breast Biopsy and Breast Ultrasound Systems	03/05/2020	MPCEC	1
		Diagnostic Radiology Mammography			
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2888-N Evaluating the Performance of Stereotactic Breast Imaging Biopsy Systems (2019)	03/05/2020	MPCEC	1
		Diagnostic Radiology Mammography			
AAPM	AAPM Online Continuing Education	Multi-Modality Stereotactic Breast Biopsy Systems-(Diagnostic Radiology: Mammography)	03/04/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	AAPM Online Continuing Education	Surveying and QC of Stereotactic Breast Biopsy Units for ACR Accreditation-(Diagnostic Radiology: Mammography)	03/04/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2332-N Surveying and QC of Stereotactic Breast Biopsy Units for ACR Accreditation	03/04/2020	MPCEC	1
		Diagnostic Radiology Mammography			
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2891-N Multi-Modality Stereotactic Breast Biopsy Systems	03/04/2020	MPCEC	1
		Diagnostic Radiology Mammography			
AAPM	AAPM Online Continuing Education	Solid-state dosimeters: A new approach for mammography measurements-(Diagnostic Radiology: Mammography)	01/28/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2351-N Solid-state dosimeters: A new approach for mammography measurements	01/28/2020	MPCEC	1
		Diagnostic Radiology Mammography			
AAPM	AAPM Online Continuing Education	Establishing a SBRT Clinic - Physics 1-(Radiotherapy: Stereotactic)	01/23/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 1888-N Establishing a SBRT Clinic - Physics 1	01/23/2020	MPCEC	1
		Radiotherapy Stereotactic			
AAPM	2019 AAPM Annual Meeting	MPPG Initiative: Implementation Experience and New Reports	12/30/2019	SAM	1
		NONE		SAM	1
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2817-N MPPG Initiative: Implementation Experience and New Reports	12/30/2019	MPCEC	1
		General Medical Physics Professional			
AAPM	AAPM Online Continuing Education	Image Quality for the Radiotherapy Physicists: Review of the Fundamentals and Automated Techniques-(Radiotherapy: Imaging)	12/29/2019	SA-CME	1
		Self-Assessment CME		SA-CME	1
American Association of	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2248-N Image Quality for the Radiotherapy Physicists:	12/29/2019	MPCEC	1

Physicists in Medicine		Review of the Fundamentals and Automated Techniques Radiotherapy Imaging				
AAPM	AAPM Online Continuing Education	MIRD Pamphlet No. 24: Guidelines for Quantitative 131I SPECT in Dosimetry Applications-(Nuclear Medicine: Dosimetry)	12/24/2019	SA-CME		1
		Self-Assessment CME		SA-CME		1
AAPM	AAPM Online Continuing Education	MIRD Pamphlet No. 24: Guidelines for Quantitative 131I SPECT in Dosimetry Applications-(Nuclear Medicine: Dosimetry)	12/24/2019	SA-CME		1
		Self-Assessment CME		SA-CME		1
AAPM	AAPM Online Continuing Education	Automation in Radiation Therapy: Past, Present, and Future-(Radiotherapy: None)	12/24/2019	SA-CME		1
		Self-Assessment CME		SA-CME		1
AAPM	AAPM Online Continuing Education	TG 119-(Radiotherapy: Intensity-modulated Radiotherapy)	12/24/2019	SA-CME		1
		Self-Assessment CME		SA-CME		1
AAPM	AAPM Online Continuing Education	SPECT/PET: Shielding and Radiation Protection-(Nuclear Medicine: Radiation Protection)	12/24/2019	SA-CME		1
		Self-Assessment CME		SA-CME		1
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2044-N TG 119	12/24/2019	MPCEC		1
		Radiotherapy Intensity-modulated Radiotherapy				
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2326-N MIRD Pamphlet No. 24: Guidelines for Quantitative 131I SPECT in Dosimetry Applications	12/24/2019	MPCEC		1
		Nuclear Medicine Dosimetry				
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2090-N SPECT/PET: Shielding and Radiation Protection	12/24/2019	MPCEC		1
		Nuclear Medicine Radiation Protection				
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2752-N Automation in Radiation Therapy: Past, Present, and Future	12/24/2019	MPCEC		1
		Radiotherapy None				
AAPM	AAPM Online Continuing Education	SBRT Treatment Planning Considerations-(Radiotherapy: Stereotactic)	11/18/2019	SA-CME		1
		Self-Assessment CME		SA-CME		1
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2074-N SBRT Treatment Planning Considerations	11/18/2019	MPCEC		1
		Radiotherapy Stereotactic				
AAPM	2019 AAPM Annual Meeting	Acquiring Treatment Planning Skills is Important for Medical Physicists	11/14/2019	SAM		1
		NONE		SAM		1
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2797-N Acquiring Treatment Planning Skills is Important for Medical Physicists	11/14/2019	MPCEC		1
		Radiotherapy Dosimetry				
AAPM	AAPM Online Continuing Education	Is the end of LNT the end of diagnostic medical physics?-(Diagnostic Radiology: Radiation Protection)	11/13/2019	SA-CME		1
		Self-Assessment CME		SA-CME		1
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2886-N Is the end of LNT the end of diagnostic medical physics?	11/13/2019	MPCEC		1
		Diagnostic Radiology				

		Radiation Protection			
AAPM	AAPM Online Continuing Education	Nuclear Medicine 1 - Scintillation Camera QC and Accreditation-(Nuclear Medicine: None)	11/11/2019	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	AAPM Online Continuing Education	Nuclear Medicine 1 - Scintillation Camera QC and Accreditation-(Nuclear Medicine: None)	11/11/2019	SA-CME	1
		Self-Assessment CME		SA-CME	1
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 1659-N Nuclear Medicine 1 - Scintillation Camera QC and Accreditation	11/11/2019	MPCEC	1
		Nuclear Medicine None			
AAPM	2019 AAPM Annual Meeting	Optimizing Safety and Efficiency in Brachytherapy	11/08/2019	SAM	1.5
		NONE		SAM	1.5
AAPM	AAPM Online Continuing Education	PET/CT Attenuation Correction and Image Fusion-(Nuclear Medicine: PET)	11/08/2019	SA-CME	1
		Self-Assessment CME		SA-CME	1
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 1853-N PET/CT Attenuation Correction and Image Fusion	11/08/2019	MPCEC	1
		Nuclear Medicine PET			
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2820-N Optimizing Safety and Efficiency in Brachytherapy	11/08/2019	MPCEC	1.5
		Radiotherapy Brachytherapy			
AAPM	AAPM Online Continuing Education	Risk: CT Dose Reporting and Tracking-(PACS: Imaging)	09/11/2019	SA-CME	1
		Self-Assessment CME		SA-CME	1
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2059-N Risk: CT Dose Reporting and Tracking	09/11/2019	MPCEC	1
		PACS Imaging			
AAPM	2018 AAPM Annual Meeting	Physics Testing Gamma Cameras and PET Scanners: Reports from TG 117 and TG 126	05/29/2019	SAM	1.5
		NONE		SAM	1.5
AAPM	2018 AAPM Annual Meeting	Session in Memory of Phil Heintz: Patient Dose Calculations in Imaging - Fluoro, CT, and Fetal	05/29/2019	SAM	1.5
		NONE		SAM	1.5
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2710-N Session in Memory of Phil Heintz: Patient Dose Calculations in Imaging - Fluoro, CT, and Fetal	05/29/2019	MPCEC	1.5
		Diagnostic Radiology Dosimetry			
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2649-N Physics Testing Gamma Cameras and PET Scanners: Reports from TG 117 and TG 126	05/29/2019	MPCEC	1.5
		Diagnostic Radiology PET			
AAPM	2017 AAPM Annual Meeting	Adult Learning (Andragogy) Techniques for Medical Physics	01/02/2019	SAM	1
		NONE		SAM	1
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2571-N Adult Learning (Andragogy) Techniques for Medical Physics	01/02/2019	MPCEC	1
		General Medical Physics Education			

MPCEC CREDIT EARNED 98.77

SA-CME CREDIT EARNED 40

Specialty Detail

ELIZABETH M. CAREY, MS, DABR, DABMP,
DASNM

NM ACCREDITATION

CREDENTIALING CRITERIA



NM Accreditation Credentialing Criteria

Physicist Name: Elizabeth Carey, MS, DABR, DABMP

Qualifications	Medical Physicist
Initial	Board Certified
	Certified in Medical Nuclear Physics or Radiological Physics by the American Board of Radiology; in Nuclear Medicine Physics by the American Board of Medical Physics; in Nuclear Medicine Physics by the Canadian College of Physicists in Medicine; or in Nuclear Medicine Physics and Instrumentation by the American Board of Science in Nuclear Medicine
	OR
	Not Board Certified in Required Subspecialty
	* Graduate Degree in medical physics, radiologic physics, physics or other relevant physical science or engineering discipline from an accredited institution and
	* Formal coursework in the biological sciences with at least :
	1 course in biology or radiation biology, and
	1 course in anatomy, physiology, or similar topics related to the practice of medical physics
	* 3 years of documented experience in a clinical setting
	OR
	<u>Grandfathered</u>
	Conducted surveys of at least 2 NM units between January 1, 2007 and January 1, 2010



2021 NM Continuing Experience Documentation

The following information is provided to demonstrate the aforementioned individual meets the Nuclear Medicine Survey Experience requirements of completing surveys of at least 2 NM units in the prior 24 months.

Physicist Name: Elizabeth Carey, MS, DABR, DABMP

Facility	Equipment	Date
UNC Medical Center	Siemens e. cam dual head Room 2	September 23, 2021
UNC Medical Center	Siemens e. cam dual head Room 3	September 23, 2021
UNC Medical Center	Siemens e. cam single head Room 4	September 23, 2021
UNC Medical Center	Siemens Symbia T Room 1	Septmeber23, 2021
UNC Hillsborough	Siemens Spec/CT	May 5, 2021
UNC Medical Center	Siemens Evo Room 8	September 23, 2021
UNC Medical Center	2 Siemens Spec/CT Rooms 5 and 6	Septemeber 23, 2021

I certify that the above information is representative of the NM surveys I completed in 2021

Elizabeth Carey, MS, DABR, DABMP

Medical Physicist

I verify that the above information is representative of the NM surveys Elizabeth Carey completed in 2021

Dr. Marijana, Ph.D., DABR

Certified Medical Physicist

UNC Hospitals



June 18, 2021

Elizabeth M. Carey, MS
403 Bellemont Rd.
Pittsboro, NC 27312

Greetings,

On behalf of American Board of Science in Nuclear Medicine (ABSNM) I would like to inform you of the results of your recent examinations. The certification examination is given in two parts, a general examination and a specialty component, and successful candidates are required to pass both examinations.

You have passed the General Examination and the Nuclear Medicine Physics and Instrumentation Examination. I am pleased that you chose to sit for this very rigorous examination, and I trust you will feel the sense of professional accomplishment and personal fulfillment that comes with this demonstration of practice competency.

Within the next few weeks, your information will be provided to the Conference on Radiation Control Program Directors. This group maintains the Qualified Medical Physicists Registry (QMPR) which you can use to provide confirmation of your credentials. If needed, please direct whoever is making the inquiry to <http://crcpd.org/QMP/Default.aspx>. In the event you require further confirmation, or you need any changes made to the enclosed certificate, please e-mail the change directly to Dr. Greg Beavers, ABSNM Executive Director, absnm.mgr@gmail.com.

Again, please allow me to express our sincerest congratulations on your achievement.

Sincerely,

Mark F. Smith, PhD
ABSNM President



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December 30, 2021

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EXECUTIVE DIRECTOR

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To Whom It May Concern:

This letter is to verify that the individual listed below has been certified in Medical Physics, by the American Board of Medical Physics (ABMP).

Furthermore, this individual has the opportunity to renew her certification by meeting the requirements of the ABMP for recertification at 5-year intervals. The specialty, initial certification and renewal dates are listed.

This information is also available to the public, at www.abmpexam.com.

Individual: **Elizabeth M. Carey, M.S.**

Specialty: **Medical Health Physics**

Year Originally Certified: **2002**

Next Renewal Date: **December 31, 2026**

Please do not hesitate to contact me if you have further questions.

Thank you,

Tomi Papanikolaou, M.S.

Executive Director

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DATE RANGE: 01/01/2019 TO: 04/13/2022

CREDIT TYPE: ALL

REPORT DATE: 04/13/2022

SPONSOR	PROGRAM	SESSION ID	DESCRIPTION	DATE	TYPE	EARNED
AAPM	2020 AAPM Virtual Spring Clinical Meeting		Managing Image Guidance Doses to Radiotherapy Patients	02/10/2022	SAM	2
			NONE		SAM	2
AAPM	2022 AAPM Online Learning Center		2022 AAPM Online Learning Center: 2958-N Managing Image Guidance Doses to Radiotherapy Patients	02/10/2022	MPCEC	2
			Radiotherapy None			
AAPM	AAPM Online Continuing Education		Identifying Image Artifacts, Their Causes, and How to Fix Them-(Diagnostic Radiology: Quality Management)	02/09/2022	SA-CME	1
			Self-Assessment CME		SA-CME	1
AAPM	2022 AAPM Online Learning Center		2022 AAPM Online Learning Center: 3093-N Identifying Image Artifacts, Their Causes, and How to Fix Them	02/09/2022	MPCEC	1
			Diagnostic Radiology Quality Management			
AAPM	2020 Joint AAPM COMP Virtual Meeting		End to End (E2E) Testing in Radiation Therapy	02/08/2022	SAM	1
			NONE		SAM	1
AAPM	AAPM Online Continuing Education		Effects of shortened acquisition time on accuracy and precision of quantitative estimates of organ activity-(Radiotherapy: Nuclear Medicine)	02/08/2022	SA-CME	1
			Self-Assessment CME		SA-CME	1
AAPM	2022 AAPM Online Learning Center		2022 AAPM Online Learning Center: 2088-N Effects of shortened acquisition time on accuracy and precision of quantitative estimates of organ activity	02/08/2022	MPCEC	1
			Radiotherapy Nuclear Medicine			
AAPM	2022 AAPM Online Learning Center		2022 AAPM Online Learning Center: 3065-N End to End E2E Testing in Radiation Therapy	02/08/2022	MPCEC	1
			Radiotherapy Quality Management			
AAPM	AAPM Online Continuing Education		Characterization of the count rate performance of modern gamma cameras-(Nuclear Medicine: None)	02/04/2022	SA-CME	1
			Self-Assessment CME		SA-CME	1
AAPM	2022 AAPM Online Learning Center		2022 AAPM Online Learning Center: 2171-N Characterization of the count rate performance of modern gamma cameras	02/04/2022	MPCEC	1
			Nuclear Medicine None			
AAPM	AAPM Online Continuing Education		Real Time B-mode ultrasound Quality control test procedures-(Diagnostic Radiology: Ultrasound)	02/02/2022	SA-CME	1
			Self-Assessment CME		SA-CME	1
AAPM	AAPM Online Continuing Education		Digital Breast Tomosynthesis Unique Features of the GE SenoClaire Tomosynthesis System-(Diagnostic Radiology: Mammography)	02/02/2022	SA-CME	1
			Self-Assessment CME		SA-CME	1
AAPM	AAPM Online Continuing Education		Gamma Camera and SPECT Basics & Performance-(Nuclear Medicine: None)	02/02/2022	SA-CME	1
			Self-Assessment CME		SA-CME	1
AAPM	2022 AAPM Online Learning Center		2022 AAPM Online Learning Center: 4258-N Digital Breast Tomosynthesis Unique Features of the GE SenoClaire Tomosynthesis System	02/02/2022	MPCEC	1
			Diagnostic Radiology Mammography			
AAPM	2022 AAPM Online Learning Center		2022 AAPM Online Learning Center: 1857-N Real Time iBi-mode ultrasound Quality control test procedures	02/02/2022	MPCEC	1
			Diagnostic Radiology Ultrasound			
AAPM	2022 AAPM Online Learning Center		2022 AAPM Online Learning Center: 2937-N Gamma Camera and SPECT Basics Performance	02/02/2022	MPCEC	1
			Nuclear Medicine None			
AAPM	AAPM Online		PET/CT QA and Acceptance Testing-(Nuclear	02/01/2022	SA-CME	1

		Medicine: Quality Management)			
	Continuing Education	Self-Assessment CME		SA-CME	1
AAPM	AAPM Online Continuing Education	Accuracy of HVL measurements utilizing solid state detectors for radiography and fluoroscopy X-ray systems-(Diagnostic Radiology: Digital Radiography)	02/01/2022	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	AAPM Online Continuing Education	Releasing Nuclear Medicine Patients to the Public: Dose Calculations and Discharge Instructions-(Nuclear Medicine: Radiation Protection)	02/01/2022	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	2022 AAPM Online Learning Center	2022 AAPM Online Learning Center: 2213-N PETCT QA and Acceptance Testing	02/01/2022	MPCEC	1
		Nuclear Medicine Quality Management			
AAPM	2022 AAPM Online Learning Center	2022 AAPM Online Learning Center: 1837-N Releasing Nuclear Medicine Patients to the Public: Dose Calculations and Discharge Instructions	02/01/2022	MPCEC	1
		Nuclear Medicine Radiation Protection			
AAPM	2022 AAPM Online Learning Center	2022 AAPM Online Learning Center: 4259-N Accuracy of HVL measurements utilizing solid state detectors for radiography and fluoroscopy X-ray systems	02/01/2022	MPCEC	1
		Diagnostic Radiology Digital Radiography			
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Basic Ultrasound Principles	06/11/2021	MPCEC	1.25
		Diagnostic Radiology Ultrasound			
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Lab A - Image Uniformity	06/11/2021	MPCEC	0.75
		Diagnostic Radiology Ultrasound			
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Lab E - Low Contrast Detectability	06/11/2021	MPCEC	0.75
		Diagnostic Radiology Ultrasound			
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: ACR Ultrasound Accreditation: Role of the Medical Physicist	06/11/2021	MPCEC	1.5
		Diagnostic Radiology Ultrasound			
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Knobology Review	06/11/2021	MPCEC	1
		Diagnostic Radiology Ultrasound			
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Lab D - Axial and Lateral Resolution	06/11/2021	MPCEC	0.75
		Diagnostic Radiology Ultrasound			
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Emerging Technologies	06/11/2021	MPCEC	0.75
		Diagnostic Radiology Ultrasound			
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Lab C - Image Uniformity Caliper Accuracy horizontal and vertical	06/11/2021	MPCEC	0.75
		Diagnostic Radiology Ultrasound			
Medical Technology	Hands-on Ultrasound Physics	Hands-on Ultrasound Physics Workshop: Real-time Doppler and Elastography Imaging	06/11/2021	MPCEC	1.25

Management Institute	Workshop	Diagnostic Radiology Ultrasound				
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Ultrasound Imaging Artifacts Error Sources	06/11/2021	MPCEC		1
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Real-time Ultrasound Imaging	06/11/2021	MPCEC		1
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Clinical Safety Proper Scanning Techniques	06/11/2021	MPCEC		1
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Lab B - Doppler and Elastography	06/11/2021	MPCEC		0.75
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Lab F - Maximum Penetration Depth and Dead Zone	06/11/2021	MPCEC		0.75
Medical Technology Management Institute	Hands-on Ultrasound Physics Workshop	Hands-on Ultrasound Physics Workshop: Ultrasound QC Phantoms and Tests	06/11/2021	MPCEC		1
AAPM	AAPM Online Continuing Education	Quantitation of SPECT Performance-(Nuclear Medicine: None)	05/17/2021	SA-CME		1
AAPM	2021 AAPM Online Continuing Education	2021 AAPM Online Continuing Education: Quantitation of SPECT Performance	05/17/2021	MPCEC		1
AAPM	AAPM Online Continuing Education	PET Scanner Performance: Quality Assurance and Acceptance Testing-(Nuclear Medicine: None)	05/13/2021	SA-CME		1
AAPM	2021 AAPM Online Continuing Education	2021 AAPM Online Continuing Education: PET Scanner Performance: Quality Assurance and Acceptance Testing	05/13/2021	MPCEC		1
AAPM	AAPM Online Continuing Education	Diagnostic Ultrasound QA/QC Hands-on Workshop-(Diagnostic Radiology: Ultrasound)	03/04/2021	SA-CME		1
AAPM	2021 AAPM Online Continuing Education	2021 AAPM Online Continuing Education: Diagnostic Ultrasound QAQC Hands-on Workshop	03/04/2021	MPCEC		1
AAPM	2017 AAPM Annual Meeting	Best Practices for Physics Plan and Chart Review: Report of AAPM Task Group 275	12/23/2020	SAM		1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2573-N Best Practices for Physics Plan and Chart Review: Report of AAPM Task Group 275	12/23/2020	MPCEC		1
AAPM	2017 AAPM Spring	Radiotherapy Quality Management Radiation Safety Officers Review	12/15/2020	SAM		2

	Clinical Meeting	NONE		SAM	2
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2424-N Radiation Safety Officers Review	12/15/2020	MPCEC	2
		General Medical Physics Professional			
AAPM	2020 Joint AAPM COMP Virtual Meeting	Diagnostic Imaging and 100 mSv+ Doses	12/14/2020	SAM	1
		NONE		SAM	1
AAPM	2020 AAPM Virtual Spring Clinical Meeting	FUNdamental of Small Field Dosimetry	12/14/2020	SAM	1
		NONE		SAM	1
AAPM	AAPM Online Continuing Education	Ongoing quality control in digital radiography: Report of AAPM Imaging Physics Committee Task Group 151-(Diagnostic Radiology: Digital Radiography) Self-Assessment CME	12/14/2020	SA-CME	1
				SA-CME	1
AAPM	AAPM Online Continuing Education	Calibration of AEC for Digital Radiography-(Diagnostic Radiology: Digital Radiography)	12/14/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 1902-N Calibration of AEC for Digital Radiography	12/14/2020	MPCEC	1
		Diagnostic Radiology Digital Radiography			
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2947-N Ongoing quality control in digital radiography: Report of AAPM Imaging Physics Committee Task Group 151 Diagnostic Radiology Digital Radiography	12/14/2020	MPCEC	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2959-N FUNdamental of Small Field Dosimetry	12/14/2020	MPCEC	1
		Radiotherapy Dosimetry			
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 3008-N Diagnostic Imaging and 100 mSv+ Doses	12/14/2020	MPCEC	1
		Diagnostic Radiology Patient Safety			
AAPM	AAPM Online Continuing Education	Image Quality for the Radiotherapy Physicists: Review of the Fundamentals and Automated Techniques-(Radiotherapy: Imaging) Self-Assessment CME	12/10/2020	SA-CME	1
				SA-CME	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2248-N Image Quality for the Radiotherapy Physicists: Review of the Fundamentals and Automated Techniques Radiotherapy Imaging	12/10/2020	MPCEC	1
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Breast Density Measurements-Volpara	10/24/2020	MPCEC	0.5
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Digital Mammography & Digital Breast Tomosynthesis QC Programs-GE Pristina	10/24/2020	MPCEC	0.67
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Evaluation of Stereotactic/Tomosynthesis-Guided Breast Biopsy	10/24/2020	MPCEC	1
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Questions and Answers I	10/24/2020	MPCEC	1
		Diagnostic Radiology			

		Mammography				
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Surveying/QC of Stereotactic Breast Biopsy Units	10/24/2020	MPCEC	1	
		Diagnostic Radiology Mammography				
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: ACR: What it is, What it isn't, and What it can do for you	10/24/2020	MPCEC	1	
		Diagnostic Radiology Mammography				
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Digital Mammography & Digital Breast Tomosynthesis QC Programs-Fuji	10/24/2020	MPCEC	0.67	
		Diagnostic Radiology Mammography				
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Digital Mammography & Digital Breast Tomosynthesis QC Programs-Siemens	10/24/2020	MPCEC	0.67	
		Diagnostic Radiology Mammography				
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Overview of Digital Breast Tomosynthesis	10/24/2020	MPCEC	0.5	
		Diagnostic Radiology Mammography				
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Stereotactic Breast Biopsy: Clinical Considerations and Comparison to Alternative Biopsy Techniques	10/24/2020	MPCEC	1	
		Diagnostic Radiology Mammography				
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: ACR FFDM QC Manual and Phantom	10/24/2020	MPCEC	1	
		Diagnostic Radiology Mammography				
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Digital Breast Imaging Technology and Technical Considerations for DBT Imaging and Design	10/24/2020	MPCEC	1.5	
		Diagnostic Radiology Mammography				
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Digital Mammography & Digital Breast Tomosynthesis QC Programs-Hologic	10/24/2020	MPCEC	0.67	
		Diagnostic Radiology Mammography				
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: MQSA EQUIP	10/24/2020	MPCEC	1	
		Diagnostic Radiology Mammography				
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Soft Copy Display: Image Communication and QC	10/24/2020	MPCEC	0.83	
		Diagnostic Radiology Mammography				
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Welcome and Course Overview	10/24/2020	MPCEC	0.17	
		Diagnostic Radiology Mammography				
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Clinical Experience with Digital Breast Tomosynthesis	10/24/2020	MPCEC	1	

	Update for Physicists	Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Digital Mammography & Digital Breast Tomosynthesis QC Programs-GE Senoclaire	10/24/2020	MPCEC	0.67
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Motivations and Strategies for Transitioning to the ACR DMQC Manual	10/24/2020	MPCEC	1
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: Questions and Answers II	10/24/2020	MPCEC	0.17
		Diagnostic Radiology Mammography			
MTMI	24th Annual Mammography Update for Physicists	24th Annual Mammography Update for Physicists: The Diagnosis and Treatment of Breast Cancer	10/24/2020	MPCEC	1
		Diagnostic Radiology Mammography			
AAPM	2020 AAPM Virtual Spring Clinical Meeting	Communicating Risk: CT and CARES Campaign	08/06/2020	SAM	2
		NONE		SAM	2
AAPM	2020 AAPM Virtual Spring Clinical Meeting	ACR MRI Update	08/06/2020	SAM	1
		NONE		SAM	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2972-N ACR MRI Update	08/06/2020	MPCEC	1
		Diagnostic Radiology Magnetic Resonance			
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2974-N Communicating Risk: CT and CARES Campaign	08/06/2020	MPCEC	2
		Radiation Protection Patient Safety			
AAPM	2018 AAPM Annual Meeting	Imaging Artifacts - CT, MRI, and Mammography	07/10/2020	SAM	2
		NONE		SAM	2
AAPM	AAPM Online Continuing Education	MQSA Compliance Guidance-(Diagnostic Radiology: Mammography)	07/10/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2669-N Imaging Artifacts - CT, MRI, and Mammography	07/10/2020	MPCEC	2
		Diagnostic Radiology Quality Management			
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 1597-N MQSA Compliance Guidance	07/10/2020	MPCEC	1
		Diagnostic Radiology Mammography			
AAPM	2020 AAPM Virtual Spring Clinical Meeting	Update on Stereotactic Breast Imaging	07/09/2020	SAM	1
		NONE		SAM	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2975-N Update on Stereotactic Breast Imaging	07/09/2020	MPCEC	1
		Diagnostic Radiology Mammography			
AAPM	AAPM Online Continuing Education	BICOE Accreditation of Stereotactic Breast Biopsy and Breast Ultrasound Systems-(Diagnostic Radiology: Mammography)	07/06/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1

AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2936-N BICOE Accreditation of Stereotactic Breast Biopsy and Breast Ultrasound Systems Diagnostic Radiology Mammography	07/06/2020	MPCEC	1
AAPM	2019 AAPM Annual Meeting	Communicating Benefit to Risk Ratio from Radiology Exams to the Patient and Provider NONE	05/13/2020	SAM SAM	2 2
AAPM	AAPM Online Continuing Education	SBB vs. Mammography: Image Quality and Dose- (Diagnostic Radiology: Mammography) Self-Assessment CME	05/13/2020	SA-CME SA-CME	1 1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2803-N Communicating Benefit to Risk Ratio from Radiology Exams to the Patient and Provider Diagnostic Radiology Quality Management	05/13/2020	MPCEC	2
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2408-N SBB vs Mammography: Image Quality and Dose Diagnostic Radiology Mammography	05/13/2020	MPCEC	1
AAPM	2018 AAPM Annual Meeting	In Memoriam of Lynn Verhey: Clinical Physicists Must Know and Be Involved in Treatment Planning NONE	05/11/2020	SAM SAM	2 2
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2667-N In Memoriam of Lynn Verhey: Clinical Physicists Must Know and Be Involved in Treatment Planning Radiotherapy Dosimetry	05/11/2020	MPCEC	2
AAPM	2018 AAPM Annual Meeting	Hiding the Complexity in Treatment Planning/Automation NONE	05/06/2020	SAM SAM	2 2
AAPM	AAPM Online Continuing Education	QC Requirements for the Hologic Dimensions and GE SenoClaire Digital Breast Tomosynthesis Units- (Diagnostic Radiology: Mammography) Self-Assessment CME	05/06/2020	SA-CME SA-CME	1 1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2691-N Hiding the Complexity in Treatment Planning/Automation Radiotherapy Dosimetry	05/06/2020	MPCEC	2
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2939-N QC Requirements for the Hologic Dimensions and GE SenoClaire Digital Breast Tomosynthesis Units Diagnostic Radiology Mammography	05/06/2020	MPCEC	1
AAPM	AAPM Online Continuing Education	Conventional Linac Acceptance Testing- (Radiotherapy: External Beam) Self-Assessment CME	03/11/2020	SA-CME SA-CME	1 1
AAPM	AAPM Online Continuing Education	Acceptance Testing Converted CR to DR Systems- (Diagnostic Radiology: Digital Radiography) Self-Assessment CME	03/11/2020	SA-CME SA-CME	1 1
AAPM	AAPM Online Continuing Education	An Overview of the New ACR DBT QC Tests and Phantom (2019)-(Diagnostic Radiology: Mammography) Self-Assessment CME	03/11/2020	SA-CME SA-CME	1 1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2920-N Acceptance Testing Converted CR to DR Systems Diagnostic Radiology Digital Radiography	03/11/2020	MPCEC	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2926-N Conventional Linac Acceptance Testing Radiotherapy External Beam	03/11/2020	MPCEC	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2892-N An Overview of the New ACR DBT QC Tests and Phantom (2019) Diagnostic Radiology Mammography	03/11/2020	MPCEC	1
AAPM	2019 AAPM Annual Meeting	Vendor Related Mammography Updates	03/09/2020	SAM	2

		NONE		SAM	2
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2881-N Vendor Related Mammography Updates	03/09/2020	MPCEC	2
		Diagnostic Radiology Mammography			
AAPM	AAPM Online Continuing Education	Accreditation of Stereotactic Breast Biopsy and Breast Ultrasound Systems-(Diagnostic Radiology: Mammography)	03/05/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	AAPM Online Continuing Education	Evaluating the Performance of Stereotactic Breast Imaging Biopsy Systems (2019)-(Diagnostic Radiology: Mammography)	03/05/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2209-N Accreditation of Stereotactic Breast Biopsy and Breast Ultrasound Systems	03/05/2020	MPCEC	1
		Diagnostic Radiology Mammography			
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2888-N Evaluating the Performance of Stereotactic Breast Imaging Biopsy Systems (2019)	03/05/2020	MPCEC	1
		Diagnostic Radiology Mammography			
AAPM	AAPM Online Continuing Education	Multi-Modality Stereotactic Breast Biopsy Systems-(Diagnostic Radiology: Mammography)	03/04/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	AAPM Online Continuing Education	Surveying and QC of Stereotactic Breast Biopsy Units for ACR Accreditation-(Diagnostic Radiology: Mammography)	03/04/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2332-N Surveying and QC of Stereotactic Breast Biopsy Units for ACR Accreditation	03/04/2020	MPCEC	1
		Diagnostic Radiology Mammography			
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2891-N Multi-Modality Stereotactic Breast Biopsy Systems	03/04/2020	MPCEC	1
		Diagnostic Radiology Mammography			
AAPM	AAPM Online Continuing Education	Solid-state dosimeters: A new approach for mammography measurements-(Diagnostic Radiology: Mammography)	01/28/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 2351-N Solid-state dosimeters: A new approach for mammography measurements	01/28/2020	MPCEC	1
		Diagnostic Radiology Mammography			
AAPM	AAPM Online Continuing Education	Establishing a SBRT Clinic - Physics 1-(Radiotherapy: Stereotactic)	01/23/2020	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	2020 AAPM Online Continuing Education	2020 AAPM Online Continuing Education: 1888-N Establishing a SBRT Clinic - Physics 1	01/23/2020	MPCEC	1
		Radiotherapy Stereotactic			
AAPM	2019 AAPM Annual Meeting	MPPG Initiative: Implementation Experience and New Reports	12/30/2019	SAM	1
		NONE		SAM	1
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2817-N MPPG Initiative: Implementation Experience and New Reports	12/30/2019	MPCEC	1
		General Medical Physics Professional			
AAPM	AAPM Online Continuing Education	Image Quality for the Radiotherapy Physicists: Review of the Fundamentals and Automated Techniques-(Radiotherapy: Imaging)	12/29/2019	SA-CME	1
		Self-Assessment CME		SA-CME	1
American Association of	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2248-N Image Quality for the Radiotherapy Physicists:	12/29/2019	MPCEC	1

Physicists in Medicine		Review of the Fundamentals and Automated Techniques Radiotherapy Imaging				
AAPM	AAPM Online Continuing Education	MIRD Pamphlet No. 24: Guidelines for Quantitative 131I SPECT in Dosimetry Applications-(Nuclear Medicine: Dosimetry) Self-Assessment CME	12/24/2019	SA-CME	1	
				SA-CME	1	
AAPM	AAPM Online Continuing Education	MIRD Pamphlet No. 24: Guidelines for Quantitative 131I SPECT in Dosimetry Applications-(Nuclear Medicine: Dosimetry) Self-Assessment CME	12/24/2019	SA-CME	1	
				SA-CME	1	
AAPM	AAPM Online Continuing Education	Automation in Radiation Therapy: Past, Present, and Future-(Radiotherapy: None) Self-Assessment CME	12/24/2019	SA-CME	1	
				SA-CME	1	
AAPM	AAPM Online Continuing Education	TG 119-(Radiotherapy: Intensity-modulated Radiotherapy) Self-Assessment CME	12/24/2019	SA-CME	1	
				SA-CME	1	
AAPM	AAPM Online Continuing Education	SPECT/PET: Shielding and Radiation Protection-(Nuclear Medicine: Radiation Protection) Self-Assessment CME	12/24/2019	SA-CME	1	
				SA-CME	1	
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2044-N TG 119 Radiotherapy Intensity-modulated Radiotherapy	12/24/2019	MPCEC	1	
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2326-N MIRD Pamphlet No. 24: Guidelines for Quantitative 131I SPECT in Dosimetry Applications Nuclear Medicine Dosimetry	12/24/2019	MPCEC	1	
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2090-N SPECT/PET: Shielding and Radiation Protection Nuclear Medicine Radiation Protection	12/24/2019	MPCEC	1	
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2752-N Automation in Radiation Therapy: Past, Present, and Future Radiotherapy None	12/24/2019	MPCEC	1	
AAPM	AAPM Online Continuing Education	SBRT Treatment Planning Considerations-(Radiotherapy: Stereotactic) Self-Assessment CME	11/18/2019	SA-CME	1	
				SA-CME	1	
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2074-N SBRT Treatment Planning Considerations Radiotherapy Stereotactic	11/18/2019	MPCEC	1	
AAPM	2019 AAPM Annual Meeting	Acquiring Treatment Planning Skills is Important for Medical Physicists NONE	11/14/2019	SAM	1	
				SAM	1	
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2797-N Acquiring Treatment Planning Skills Is Important for Medical Physicists Radiotherapy Dosimetry	11/14/2019	MPCEC	1	
AAPM	AAPM Online Continuing Education	Is the end of LNT the end of diagnostic medical physics?-(Diagnostic Radiology: Radiation Protection) Self-Assessment CME	11/13/2019	SA-CME	1	
				SA-CME	1	
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2886-N Is the end of LNT the end of diagnostic medical physics? Diagnostic Radiology	11/13/2019	MPCEC	1	

		Radiation Protection			
AAPM	AAPM Online Continuing Education	Nuclear Medicine 1 - Scintillation Camera QC and Accreditation-(Nuclear Medicine: None)	11/11/2019	SA-CME	1
		Self-Assessment CME		SA-CME	1
AAPM	AAPM Online Continuing Education	Nuclear Medicine 1 - Scintillation Camera QC and Accreditation-(Nuclear Medicine: None)	11/11/2019	SA-CME	1
		Self-Assessment CME		SA-CME	1
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 1659-N Nuclear Medicine 1 - Scintillation Camera QC and Accreditation	11/11/2019	MPCEC	1
		Nuclear Medicine None			
AAPM	2019 AAPM Annual Meeting	Optimizing Safety and Efficiency in Brachytherapy	11/08/2019	SAM	1.5
		NONE		SAM	1.5
AAPM	AAPM Online Continuing Education	PET/CT Attenuation Correction and Image Fusion-(Nuclear Medicine: PET)	11/08/2019	SA-CME	1
		Self-Assessment CME		SA-CME	1
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 1853-N PET/CT Attenuation Correction and Image Fusion	11/08/2019	MPCEC	1
		Nuclear Medicine PET			
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2820-N Optimizing Safety and Efficiency in Brachytherapy	11/08/2019	MPCEC	1.5
		Radiotherapy Brachytherapy			
AAPM	AAPM Online Continuing Education	Risk: CT Dose Reporting and Tracking-(PACS: Imaging)	09/11/2019	SA-CME	1
		Self-Assessment CME		SA-CME	1
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2059-N Risk: CT Dose Reporting and Tracking	09/11/2019	MPCEC	1
		PACS Imaging			
AAPM	2018 AAPM Annual Meeting	Physics Testing Gamma Cameras and PET Scanners: Reports from TG 117 and TG 126	05/29/2019	SAM	1.5
		NONE		SAM	1.5
AAPM	2018 AAPM Annual Meeting	Session in Memory of Phil Heintz: Patient Dose Calculations in Imaging - Fluoro, CT, and Fetal	05/29/2019	SAM	1.5
		NONE		SAM	1.5
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2710-N Session in Memory of Phil Heintz: Patient Dose Calculations in Imaging - Fluoro, CT, and Fetal	05/29/2019	MPCEC	1.5
		Diagnostic Radiology Dosimetry			
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2649-N Physics Testing Gamma Cameras and PET Scanners: Reports from TG 117 and TG 126	05/29/2019	MPCEC	1.5
		Diagnostic Radiology PET			
AAPM	2017 AAPM Annual Meeting	Adult Learning (Andragogy) Techniques for Medical Physics	01/02/2019	SAM	1
		NONE		SAM	1
American Association of Physicists in Medicine	2019 AAPM Online Continuing Education	2019 AAPM Online Continuing Education: 2571-N Adult Learning (Andragogy) Techniques for Medical Physics	01/02/2019	MPCEC	1
		General Medical Physics Education			

MPCEC CREDIT EARNED 98.77

SA-CME CREDIT EARNED 40

Specialty Detail