

# **Katie Darner, M.S., DABR**

**POSITION:** Certified Medical Physicist  
Therapy Physics, Inc.  
2501 Cherry Avenue, Suite 270  
Signal Hill, CA 90755  
Phone: (562) 317-0650, Fax: (562) 317-0661, Cell: (310) 710-9065  
E-Mail: katie@therapyphysics.com

**CERTIFICATION:**

American Board of Radiology – Diagnostic Radiologic Physics – June 2007.

**STATE OF CALIFORNIA APPROVED PHYSICIST LIST:**

Approved to Provide Medical Physics Support Services for  
Mammography in the State of California - MQA - #0166

**EDUCATION:** University of Michigan - M.S. - May 2001 - Nuclear Engineering  
and Radiological Sciences  
University of Michigan - B.S. - May 2000 - Nuclear Engineering  
and Radiological Sciences

**EXPERIENCE:** University of Michigan Medical Center, Ann Arbor, MI - Department  
of Radiology - Jr. Medical Physicist - August 2001 - July 2003

**PROFESSIONAL SOCIETIES:**

AAPM, American Association of Physicists in Medicine (National and  
Southern California Chapter)  
American College of Radiology (ACR#05054335)

## **CONTINUING EDUCATION FOR MAMMOGRAPHY PHYSICS:**

- August 10-14, 2003: AAPM 45th Annual Meeting, San Diego, CA  
Mammography CEU's = 13.0.
- May 8, 2004: MTMI "Digital Mammography" Seminar, Ontario, CA  
Mammography CEU's = 8.0. **[Initial Digital Training.]**
- July 25-28, 2004: AAPM 46th Annual Meeting, Pittsburgh, PA  
Mammography CEU's = 13. [Digital CEU's = 6.0]
- July 24-28, 2005: AAPM 47th Annual Meeting, Seattle, WA  
Mammography CEU's = 7.5. [Digital CEU's = 3.5]
- July 30-August 3, 2006: AAPM 48th Annual Meeting, Orlando, FL  
Mammography CEU's = 6.0. [Digital CEU's = 5.0]
- July 22-26, 2007: AAPM 49th Annual Meeting, Minneapolis, MN  
Mammography CEU's = 14.25. [Digital CEU's = 9.25]
- 2008: AAPM Online Continuing Education  
Mammography CEU's = 7.0. [Stereo CEU's = 2.0; Digital CEU's = 1.0]
- July 27-31, 2008: AAPM 50th Annual Meeting, Houston, TX  
Mammography CEU's = 7.09. [Stereo CEU's = 0.92; Digital CEU's = 6.17]
- July 26-30, 2009: AAPM 51st Annual Meeting, Anaheim, CA  
Mammography CEU's = 9.09. [Stereo CEU's = 0.92; Digital CEU's = 2.84]
- July 18-22, 2010: AAPM 52nd Annual Meeting, Philadelphia, PA  
Mammography CEU's = 7.26. [Stereo CEU's = 1.0; Digital CEU's = 1.75]
- June 2012: AAPM Online Continuing Education  
Mammography CEU's = 10.0. [Stereo CEU's = 2.0; Digital CEU's = 1.0]
- June 2012: **Hologic Initial Tomosynthesis Training** = 8 hours.
- June 24-29, 2012: AAPM Summer School, San Diego, CA  
Mammography CEU's = 4.0. [Digital CEU's = 1.0]
- March 16-19, 2013: AAPM Spring Clinical Meeting, Phoenix, AZ  
Mammography CEU's = 6.0. [Stereo CEU's = 2.0; Digital CEU's = 4.0]
- July 20-24, 2014: AAPM 56th Annual Meeting, Austin, TX  
Mammography CEU's = 5.25. [Stereo CEU's = 1.25; Digital CEU's = 2.0]
- February 2015: AAPM Online Continuing Education  
Mammography CEU's = 5.0. [Stereo CEU's = 1.0; Digital CEU's = 3.0]
- July 13, 2015: **GE Initial Tomosynthesis Training** = 8 hours.
- July 12-16, 2015: AAPM 57th Annual Meeting, Anaheim, CA  
Mammography CEU's = 8.0. [Digital CEU's = 6.0]
- January 6, 2016: AAPM Online Continuing Education  
Mammography CEU's = 1.0. [Stereo CEU's = 1.0]
- July 31-August 4, 2016: AAPM 58th Annual Meeting, Washington DC  
Mammography CEU's = 8.5. [Digital CEU's = 5.5]
- March 18-21, 2017: AAPM Spring Clinical Meeting, New Orleans, LA  
Mammography CEU's = 5. [Digital CEU's = 1]
- July 11, 2017: AAPM Online Continuing Education  
Mammography CEU's = 1.0. [Stereo CEU's = 1.0]
- January 22, 2018: AAPM Online Continuing Education  
Mammography CEU's = 1.0. [Stereo CEU's = 1.0]
- April 2018: AAPM Online Continuing Education  
Mammography CEU's = 6. [Digital CEU's = 4]

January 8, 2019: AAPM Online Continuing Education  
Mammography CEU's = 1.0. [Stereo CEU's = 1.0]  
May 2, 2019: AAPM Online Continuing Education  
Mammography CEU's = 1.0

**CONTINUING EDUCATION FOR DIAGNOSTIC RADIOLOGIC PHYSICS:**

December 1-6, 2002: RSNA 88th Scientific Assembly & Annual Meeting, Chicago, IL  
CEU's = 9.5. [CT CEU's = 5.5; MRI CEU's = 1.5]  
August 10-14, 2003: AAPM 45th Annual Meeting, San Diego, CA  
CEU's = 14.25. [CT CEU's = 1.0; PET CEU's = 1.0]  
January 23, 2004: SCCAAPM Midwinter Physics Symposium, Universal City, CA  
CEU's = 6.5  
July 24-35, 2004: Diagnostic Physics Review Course, Pittsburgh, PA  
CEU's = 12.0.  
July 25-29, 2004: AAPM 46th Annual Meeting, Pittsburgh, PA  
CEU's = 14.25. [CT CEU's = 2.5; MRI CEU's = 1.75]  
July 29-31, 2004: 2004 Summer School of the AAPM, Pittsburgh, PA  
CEU's = 20.0.  
February 25, 2005: SCCAAPM Midwinter Physics Symposium, Universal City, CA  
CEU's = 8.0.  
July 24-28, 2005: AAPM 47th Annual Meeting, Seattle, WA  
CEU's = 20.0. [CT CEU's = 4.0; MRI CEU's = 1.0]  
January 27, 2006: SCCAAPM Midwinter Symposium, Universal City, CA  
CEU's = 7.0.  
July 30-August 3, 2006: AAPM 48th Annual Meeting, Orlando, FL  
CEU's = 18.5. [CT CEU's = 5.5; PET CEU's = 1.0]  
July 22-26, 2007: AAPM 49th Annual Meeting, Minneapolis, MN  
CEU's = 15.75. [CT CEU's = 6.5; PET CEU's = 2.0]  
July 27-29, 2007: AAPM Summer School, Minneapolis, MN  
CEU's = 8.5. [CT CEU's = 0.75; PET CEU's = 3.0]  
October 19-21, 2007: Hands-On MRI Workshop for Physicists, Houtons, TX  
CEU's = 22.0.  
2008: AAPM Online Continuing Education  
CEU's = 4.0. [CT CEU's = 2.0; PET CEU's = 1.0]  
July 27-31, 2008: AAPM 50th Annual Meeting, Houston, TX  
CEU's = 16.42. [CT CEU's = 8.34; PET CEU's = 1.83]  
July 26-30, 2009: AAPM 51st Annual Meeting, Anaheim, CA  
CEU's = 20.25. [CT CEU's = 8.33; MRI CEU's = 0.75]  
July 18-22, 2010: AAPM 52nd Annual Meeting, Philadelphia, PA  
CEU's = 19.08. [CT CEU's = 7.25; MRI CEU's = 4.25; PET CEU's = 2.0]  
June 24-29, 2012: AAPM Summer School, San Diego, CA  
CEU's = 27.5. [CT CEU's = 6.5; PET CEU's = 4.0]  
March 16-19, 2013: AAPM Spring Clinical Meeting, Phoenix, AZ  
CEU's = 19.0. [CT CEU's = 4.0; MRI CEU's = 2.0]

July 20-24, 2014: AAPM 56th Annual Meeting, Austin, TX  
CEU's =27.09.  
[CT CEU's = 8.42; MRI CEU's = 4.5; PET CEU's = 0.92; US CEU's = 2.5]

July 12-16, 2015: AAPM 57th Annual Meeting, Anaheim, CA  
CEU's =27.58.  
[CT CEU's = 6.58; MRI CEU's = 3.5; PET CEU's = 2.5; US CEU's = 1.5]

July 31-August 4, 2016: AAPM 58th Annual Meeting, Washington DC  
CEU's =31.25.  
[CT CEU's = 6.0; MRI CEU's = 2.0; PET CEU's = 1.0; US CEU's = 2.0]

March 18-21, 2017: AAPM Spring Clinical Meeting, New Orleans, LA  
CEU's = 26.  
[CT CEU's = 2.0; MRI CEU's = 2.0; PET CEU's = 1.0; US CEU's = 1.0]

April 2018: AAPM Online Continuing Education  
CEU's = 26.  
[CT CEU's = 7.0; MRI CEU's = 2.5; PET CEU's = 2.5; US CEU's = 2.0]

May 2019: AAPM Online Continuing Education  
CEU's = 9.  
[CT CEU's = 3.0; MRI CEU's = 2.0; PET CEU's = 1.0; US CEU's = 1.0]

# The American Board of Radiology

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

**Katie Lyn Darner, MS**

*has fulfilled the requirements of this Board's Maintenance of Certification  
Program and is certified as a diplomate of the American Board of Radiology in*

## Diagnostic Medical Physics

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

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

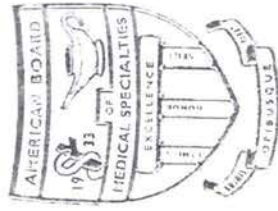


*Neil K. Latham, D*  
President

*Robert M. Sauer MD*  
Secretary-Treasurer

*Valerie S. Johnson MD*  
Executive Director

**DABR**



Certificate No. #3871

Effective: January 1, 2018

# The University of Michigan

to all who may read these letters, Greetings:

Hereby it is certified that upon recommendation of  
The Horace H. Rackham School of Graduate Studies  
The Regents of The University of Michigan have conferred upon

**Katie Lyn Barner**

in recognition of the satisfactory fulfillment of the prescribed requirements  
the degree of

**Master of Science in Engineering**  
(Nuclear Engineering and Radiological Sciences)

with all the rights, privileges, and honors thereto pertaining here and elsewhere.

Dated at Ann Arbor, Michigan, this twenty-sixth day of April, two thousand and one.

*Joe C. Ellinger*  
President



*Lisa A. Tedesco*  
Vice President and Secretary



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

JUN 29 2007

Food and Drug Administration  
Rockville MD 20857

Katie L. Mavinkurve  
Therapy Physics, Inc.  
879 W 190<sup>th</sup> Street,  
Suite 419  
Torrance, CA 90248

Dear: Ms. Katie L Mavinkurve:

The State of California (SCA) has informed the Food and Drug Administration (FDA) that it has reviewed your credentials and has provided you with a letter stating that you meet all the initial qualifications for medical physicists established under the Mammography Quality Standards Act (MQSA). Based on SCA's evaluation, we are issuing you this parallel letter. This letter supersedes any letter on the subject that you may have previously received from the FDA.

If you provide services to mammography facilities within California, you may continue to use your SCA letter, providing it shows a valid expiration date, to document that you have met all of your initial MQSA qualifications.

If you provide services to mammography facilities outside California, you should provide a copy of this letter to those facilities as documentation that you meet the initial qualifications for medical physicists described in 21 CFR 900.12(a)(3)(i) of the MQSA regulations. For MQSA documentation purposes, you will also need to supply all non-California facilities where you provide mammography services a copy of your SCA letter, State approval, State license, or Board certification. Please be aware that your SCA letter has an expiration date as do many State approvals and State licenses. If your other documents also have an expiration date, you must provide your facilities with a new copy of the documentation after each renewal. Failure to provide your facility with updated documentation may lead to a citation.

For your information, your starting date (the date you first met all the initial requirements), as determined by the State of California, is 08/19/03. As the FDA and the California letters only address initial qualifications, you are still responsible for ensuring that you supply ALL your mammography facilities with proper documentation of your MQSA continuing experience and education requirements.

Page 2 con't

If you have any further questions regarding this letter, please contact Dr. Walid Mourad at 240-276-2360.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Helen J. Barr, M.D.", with a stylized flourish at the end.

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





State of California—Health and Human Services Agency  
California Department of Public Health

KAREN L. SMITH, MD, MPH  
Director and State Public Health Officer



GAVIN NEWSOM  
Governor

March 28, 2019

Katie L. Darner, MS  
2501 Cherry Avenue, Ste. 270  
Signal Hill, CA 90755

Dear Ms. Darner:

Registration No.: MQA #0166  
Initial Qualification Date: August 19, 2003

**RENEWAL OF APPROVAL TO PROVIDE MEDICAL PHYSICS SUPPORT SERVICES  
(MAMMOGRAPHY) IN THE STATE OF CALIFORNIA**

Reference:

- (a) Application for Renewal of Authorization to Provide Mammography Physics Support Services in the State of California received via U.S. mail on March 19, 2019.

Individuals performing mammography equipment evaluations or annual physics surveys must meet the initial and continuing requirements found in the regulations as set forth in Mammography Quality Standards Act Regulations, 21 Code of Federal Regulations Part 900, Final Rule, effective April 28, 1999, and California Code of Regulations, title 17, subchapter 4, group 3, article 4.5, effective July 18, 2003.

The California Department of Public Health (Department) has reviewed your application and supporting documentation that describes your qualifications to conduct mammographic equipment evaluations and surveys of mammography facilities and provide oversight of their quality assurance programs. Your combination of education and experience demonstrates that you meet the qualifications required by 21 Code of Federal Regulations 900.12(a)(3)(i) and California Code of Regulations, title 17, sections 30315.52 and 30315.60.



You are hereby authorized to provide mammography physics services in California. Although this authorization is valid for three years, your initial qualification date will remain unchanged. **You will be required to renew your authorization by May 9, 2022.** Please use this letter as evidence of your placement on the Department's "Approved Mammography Physicists" List.

Requirements for documentation of continuing education and continuing experience can be found in 21 Code of Federal Regulations 900.12(a)(3)(iii) and (iv) and California Code of Regulations, title 17, section 30315.52. This letter does not constitute evidence of meeting either requirement. Such documentation must be provided to each facility for which you provide mammography physics services. Each facility must maintain records to demonstrate that you meet these requirements.

Please be advised that it is your responsibility to notify the Department in writing of any change of name and/or address. If we are unable to contact you, we reserve the right to remove your name from the approved list.

If you have questions regarding this authorization or other areas where the Department may be of assistance, please contact Nawab Kahn at 916-440-7862.

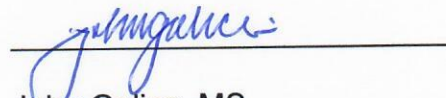
For the Department,

AUTHORIZING:



Nawab Kahn  
Associate Health Physicist  
Registration Unit  
Radiologic Health Branch

CONCURRING:



John Galica, MS  
Senior Health Physicist  
Registration Unit  
Radiologic Health Branch

Enclosure

# Certificate of Completion

**Katie Darner, MS, DABR**

In recognition of successful completion of the 8-hour GE Healthcare  
Digital Breast Tomosynthesis Mastery Training Program



Jessie Jacob, MD, MMM  
GE Chief Medical Officer, Women's Health

July 13, 2015



# GE Healthcare

# HOLOGIC™

The Women's Health Company



Hereby awards this Certificate of Completion to

**Katie L. Mavinkurve, M.S.**

For completing 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: June 4, 2012

Authorized by:

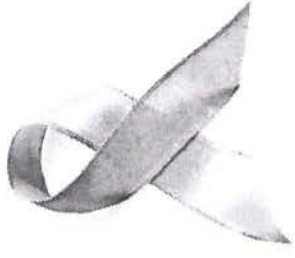
*Georgia H. Blitzer*

VP, Product and Clinical Education, Breast Health

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

# **HOLOGIC™**

The Women's Health Company



Hereby awards this Certificate of Completion to

***Katie L. Mavinkurve***

*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: June 22, 2012

*Authorized Instructor: Raphael Miranda*

*\* 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:

**Katie Darner**

SUCCESSFULLY COMPLETED THE SEMINAR ENTITLED:

**"DIGITAL MAMMOGRAPHY"**

May 8, 2004

Held in

Ontario, CA

*Medical Technology Management Institute*

This activity has been approved for 8.0 hours of Category A continuing education credit for Radiologic Technologists as required by the ARRT and various licensure states.  
AHRA# 1082

Florida # 07012067 Provider # 3200548

P.O. Box 26337  
Milwaukee, Wisconsin 53226  
(414)774-2233

*J. P. Barnes, Ph.D.*

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

**Katie Darner**  
 2501 Cherry Ave  
 Suite 270  
 Signal Hill, CA 90755  
 US

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

<b><u>Program Title</u></b>	<b><u>Date Credits Earned</u></b>	<b><u>Category/SubCategory</u></b>	<b><u>EA Title</u></b>	<b><u>Credits</u></b>
2019 AAPM Online Continuing Education	05/03/2019	Radiation Protection: Radiation Protection	1823-N Adult and Pediatric Doses in CT	1
2019 AAPM Online Continuing Education	05/03/2019	Nuclear Medicine: PET	1853-N PET/CT Attenuation Correction and Image Fusion	1
2019 AAPM Online Continuing Education	05/03/2019	Diagnostic Radiology: Ultrasound	2054-N Imaging Educational Course - Ultrasound II: Current State and Future of Ultrasound	1
2019 AAPM Online Continuing Education	05/02/2019	Diagnostic Radiology: Computed Tomography	2584-N Medical Physicist CT Equipment Evaluations	1
2019 AAPM Online Continuing Education	05/02/2019	Diagnostic Radiology: Computed Tomography	2601-N CT Protocol Review - Validation and Verification (2017)	1
2019 AAPM Online Continuing Education	01/08/2019	Diagnostic Radiology: Mammography	2602-N Stereotactic Breast Biopsy - Physics Evaluations and 2017 updates	1
2019 AAPM Online Continuing Education	05/03/2019	Diagnostic Radiology: Digital Radiography	2626-N Digital Radiography Detectors	1
2019 AAPM Online Continuing Education	05/02/2019	Diagnostic Radiology: Mammography	2627-N A Clinical Perspective On DBT-Guided Stereotactic Breast Biopsy	1
2019 AAPM Online Continuing Education	05/03/2019	Diagnostic Radiology: Magnetic Resonance	2727-N MR Protocol Review	1
2019 AAPM Online Continuing Education	05/03/2019	Diagnostic Radiology: Magnetic Resonance	2734-N Optimizing MRI Protocols - Clinical Practice and Compromises	1
Total Released Credits:				10

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

**Katie Darner**  
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 Suite 270  
 Signal Hill, CA 90755  
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Participated in the following CAMPEP accredited educational program(s) and is awarded Medical Physics Continuing Education Credits (MPCECs) as designated

<u>Program Title</u>	<u>Date Credits Earned</u>	<u>Category/SubCategory</u>	<u>EA Title</u>	<u>Credits</u>
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: Computed Tomography	1541-N The phantom portion of the American College of Radiology (ACR) Computed Tomography (CT) accreditation program: Practical tips, artifact examples, and pitfalls to avoid	1
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: Cardiovascular	1545-N Cardiac Cath lab testing and radiation measurements	1
2018 AAPM Online Continuing Education	04/14/2018	Radiation Protection: Radiation Protection	1639-N Factors affecting PET CT Shielding	1
2018 AAPM Online Continuing Education	04/14/2018	Radiation Protection: Radiography	1678-N Radiation Management in Fluoroscopy	1
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: Computed Tomography	1824-N Fundamentals of Single and Multiple Row Detector Computed Tomography	1
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: Ultrasound	1857-N Real Time B-mode ultrasound Quality control test procedures	1
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: None	1870-N TG 18	1
2018 AAPM Online Continuing Education	04/14/2018	Radiation Protection: Radiation Protection	1890-N A View from the Trenches: How to Better Equip CT Technologists in Dealing with the Increasing Complexity of Modern CT Scanners	1
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: Computed Tomography	1894-N Volume assessment accuracy in computed tomography a phantom study	1
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: Magnetic Resonance	1915-N MRI Annual Equipment Performance Evaluation and Acceptance Testing	1
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: Ultrasound	1929-N Evolution of ultrasound physics and the role of medical physicists	1
2018 AAPM	04/14/2018	Diagnostic Radiology:	2005-N TG 116	1



Online Continuing Education		Digital Radiography		
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: Magnetic Resonance	2010-N Report of MR Subcommittee Task Group I - Acceptance Testing and QA Procedures for MRI	1
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: Dosimetry	2041-N TG 111	1
2018 AAPM Online Continuing Education	04/14/2018	Nuclear Medicine: PET	2134-N Nuclear imaging of the breast	1
2018 AAPM Online Continuing Education	04/14/2018	Nuclear Medicine: PET	2136-N Motion Correction in PET Imaging	1
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: Mammography	2215-N Improved digital breast tomosynthesis images using automated ultrasound	1
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: Radiography	2323-N Accuracy and calibration of integrated radiation output indicators in diagnostic radiology	1
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: Mammography	2325-N Evaluation of clinical full field digital mammography with the task specific system-model-based Fourier Hotelling observer (SMFHO) SNR	1
2018 AAPM Online Continuing Education	04/14/2018	General Medical Physics: Patient Safety	2330-N Medical Physics Practice Guideline 4.a: Development, implementation, use and maintenance of safety checklists	1
2018 AAPM Online Continuing Education	01/22/2018	Diagnostic Radiology: Mammography	2332-N Surveying and QC of Stereotactic Breast Biopsy Units for ACR Accreditation	1
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: Computed Tomography	2468-N Safety of CT Scans	1
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: Mammography	2472-N Impact of compressed breast thickness and dose on lesion detectability in digital mammography	1
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: Mammography	2477-N Print Your Own Phantom!	1
2018 AAPM Online Continuing Education	04/14/2018	Diagnostic Radiology: Mammography	2484-N Mammography 1 Contrast Enhanced Spectral Mammography	1
2018 AAPM Online Continuing Education	04/14/2018	General Medical Physics: Regulatory/Accreditation	2486-N ACR accreditation updates in MR and CT	1
2018 AAPM Online	04/14/2018	Diagnostic Radiology: Mammography	2516-N How does c-view image quality compare with conventional 2D FFDM?	1

Continuing Education				
				Total Released Credits: 27

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

**Katie Mavinkurve**  
879 W. 190th Street  
Suite 419  
Gardena, CA 90248  
US

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

<u>Program Title</u>	<u>Date Credits Earned</u>	<u>Category/SubCategory</u>	<u>EA Title</u>	<u>Credits</u>
2017 AAPM Online Continuing Education	07/11/2017	Diagnostic Radiology:Mammography	2408-N SBB vs. Mammography: Image Quality and Dose	1
Total Released Credits:				1

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 Gardena, CA 90248  
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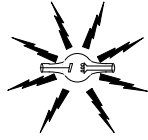
<u>Program Title</u>	<u>Date Credits Earned</u>	<u>Category/SubCategory</u>	<u>EA Title</u>	<u>Credits</u>
2017 Spring Clinical Meeting	03/19/2017	General Medical Physics:Professional	ABR MOC Update Networking	2
2017 Spring Clinical Meeting	03/20/2017	Diagnostic Radiology:Mammography	Breast and General US Accreditation	1
2017 Spring Clinical Meeting	03/20/2017	Diagnostic Radiology:Mammography	Breast Ultrasound	1
2017 Spring Clinical Meeting	03/19/2017	Diagnostic Radiology:Mammography	Clinical Trends in Breast Imaging	2
2017 Spring Clinical Meeting	03/20/2017	Diagnostic Radiology:Computed Tomography	Current Issues in CT Imaging	2
2017 Spring Clinical Meeting	03/21/2017	Diagnostic Radiology:Magnetic Resonance	Current Topics in MR Imaging	2
2017 Spring Clinical Meeting	04/15/2015	Radiation Protection:Radiation Protection	D.O.T. HAZMAT Training for the Radiation Oncology Staff and the Nuclear Medicine Technologist	1
2017 Spring Clinical Meeting	03/20/2017	Diagnostic Radiology:Quality Management	Dental Imaging: TG175 Report	1
2017 Spring Clinical Meeting	03/19/2017	Diagnostic Radiology:Digital Radiography	Exposure Indices and Target Values in Radiography: What Are They and How Can You Use Them	2
2017 Spring Clinical Meeting	03/19/2017	Diagnostic Radiology:Mammography	FFDM Accreditation	1
2017 Spring Clinical Meeting	03/18/2017	General Medical Physics:Professional	Medical Physics Leadership	2
2017 Spring Clinical Meeting	03/18/2017	Nuclear Medicine:Quality Management	Nuclear Medicine TG177 Update	1
2017 Spring Clinical Meeting	03/18/2017	Diagnostic Radiology:Quality Management	Protocol Review and Optimization	2
2017 Spring Clinical Meeting	03/21/2017	General Medical Physics:Professional	Radiation Safety Officers Review	2
2017 Spring Clinical Meeting	03/20/2017	General Medical Physics:Professional	Regulatory Update	2

2017 Spring Clinical Meeting	03/18/2017	General Medical Physics:None	Young Investigator Clinical Symposium	2
Total Released Credits:				26

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# Therapy Physics, Inc.

Diagnostic Radiology Physics Services  
Radiation Protection Shielding Design  
Radiation Oncology Physics Services

2501 Cherry Avenue, #270  
Signal Hill, CA 90755

(562) 317-0650 (Voice)  
(562) 317-0661 (FAX)

## Continuing Medical Physics Experience - Katie Darner, M.S., DABR MQA-0166

To demonstrate compliance with 21CFR 900.12 (a) (3) (iii) (B) - "the medical physicist shall have surveyed at least two mammography facilities and a total of at least six mammography units during the 24 months immediately preceding the date of the facility's annual MQSA inspection or the last day of the calendar quarter or any date in-between the two."

I have provided the mammography physics services to the following facilities on the mammography units as listed below:

The Breast Center @ CBCC	GE Senographe Essential with Tomo	August 9, 2019
Lebovic, Schwimer, & Goldberg, Inc. Beverly Hills, CA	Siemens MAMMOMAT Revelation with Tomo	September 25, 2019
Imaging Center at St. Mary Long Beach, CA	Siemens Inspiration	October 11, 2019
San Antonio Women's Breast & Imaging Center Upland, CA	Hologic Selenia Dimensions with Tomo Lorad MultiCare Platinum Hologic Selenia	April 24, 2019
Sheila R. Veloz Breast Imaging Center	2 - Hologic Selenia Dimensions with Tomo Hologic Affirm Prone Biopsy System	June 19, 2019 October 10, 2019

Melissa C. Martin, M.S., DABR

Katie L. Darner, M.S., DABR

## Continuing Medical Physics Experience

I have provided medical physics services in accordance with ACR guidelines to the following facilities as listed below:

### Computed Tomography

Providence Saint John's Health Center Santa Monica, CA	Philips Brilliance 16 Big Bore Philips Brilliance 64	June 20, 2019
Huntington Memorial Hospital Pasadena, CA	Toshiba Aquilion 16 Toshiba Aquilion One	April 26, 2019
Los Alamitos Medical Center Los Alamitos, CA	GE Optima Siemens Somatom Definition AS	July 20, 2019

### Magnetic Resonance Imaging

Good Samaritan Hospital Los Angeles, CA	GE Signa	January 3, 2019
Providence Holy Cross Medical Center Mission Hills, CA	Siemens Magnetom Symphony	March 14, 2019

### Ultrasound

Outpatient Diagnostic Center Mission Hills, CA	GE Logiq S8 Philips iU22	April 3, 2019
Providence Saint John's Health Center Santa Monica, CA	2 - Philips iU22	May 8, 2019
Thousand Oaks Radiology Thousand Oaks, CA	GE Logiq E9 GE Logiq S7 Expert	April 19, 2019

### PET

Providence Holy Cross Medical Center Santa Clarita, CA	Siemens Biograph 16	May 24, 2019
Total Care Imaging Center Los Alamitos, CA	GE Discovery	May 29, 2019
AHMC International Cancer Center Monterey Park, CA	GE Optima 560	September 25, 2019



**Katie Darner, M.S., DABR**



# Certificate of Conformance

**Issued to:** Therapy Physics  
2501 Cherry Ave .Suite 270  
Signal Hill, CA 90755


<u>Equipment Description</u>	<u>Model</u>	<u>S/N</u>
Accu-Gold Digitizer Module	AGDM+	48-0268
Ion Chamber	10X6-3CT	05-0842
Accu-Gold Multi-Sensor	AGMS-DM+	43-0258

The equipment identified above has been calibrated and tested using Radcal calibration and acceptance procedure PP1102, Radcal Quality Manual PP1007, Radcal Policy and Procedure PP1038, PI1045, PI1055 and other related documents. The equipment has been found to conform in all respects. These test procedures are designed to ensure that the tested equipment meets or exceeds all aspects of Radcal's published product specifications and requirements. Radcal is an ACLASS accredited calibration lab that meets the requirements of ISO 17025 and ANSI/NCLS Z540-1, cert number AC-1553.

All measurements performed during the testing employ equipment traceable to NIST or another recognized National Laboratory such as Physikalisch-Technische Bundesanstalt (PTB).

For additional information please refer to Radcal's Product note: "The Importance of Conformance Testing". Radcal recommends revalidation in 12 months.

Certificate Issue Date: 29-Aug-19

By:   
Authorized Representative

Radcal Corporation  
426 W. Duarte Rd. Monrovia, CA 91016  
Tel: (626) 357-7921 FAX: (626) 357-8863 email: [service@radcal.com](mailto:service@radcal.com)



## MQSA<sup>(1)</sup> Certificate of Calibration

**Issued To:** Therapy Physics  
2501 Cherry Ave .Suite 270  
Signal Hill, CA 90755

Equipment Description	Model	S/N	Asset No.
Accu-Gold Digitizer Module	AGDM+	48-0268	N/A
Accu-Gold Multi-Sensor	AGMS-DM+	43-0258	N/A

**Condition of Equipment As-Left:**  
In Tolerance

Remarks: Prior to calibration, the equipment was examined and found to be in good condition and performed in accordance with the manufacturer's specifications with the exceptions listed below:  
1. None

The equipment identified above has been calibrated and tested using standard Radcal calibration and acceptance procedures in accordance with Radcal Quality Manual PP1007, 4600131 - CertCal - Mammo Sensor.XLT Rev:G and technical requirements contained in the customer's order. These procedures are designed to ensure that the tested equipment meets or exceeds the stated specifications and the requirements of ANSI/NCLS Z540-1-1994.  
<sup>(1)</sup>See MQSA Advisory Note attached.

All measurements performed during the testing employ equipment traceable to NIST or another recognized National Laboratory such as Physikalisch-Technische Bundesanstalt (PTB). All calibration results included with this certificate were recorded at the time of measurement and shall not imply anything about the instrument's future stability. This must be determined from previous historical data.

Calibration Date: 29 August 2019  
Date of Report 29 August 2019  
Interval, as defined by MQSA: 12 months after date of calibration  
Calibration Due: 29 August 2020

Calibration Tech.:   
AV

By:   
Authorized Reviewers  
E. Macintosh / M. Bryant

## MQSA<sup>(1)</sup> Certificate of Calibration

**Measurement Test Conditions**

A Lorad M-II Mammographic X-ray generator equipped with Molybdenum target and a beryllium window x-ray tube was used as the source of the required mammographic x-ray beam. The generator ripple is less than 1 kV. Filters were added to produce the required beam (see data). The output of the generator was measured with a Radcal Dynalyzer invasive voltage divider. The HV-1 output was measured with an analog-to-digital converter with an uncertainty of  $\pm 0.1\%$ . All reported kVp, mA and time measurement results have an uncertainty of better than  $\pm 1\%$  at the 95% confidence level. Dose measurements were made using the substitution method and normalized with a reference mammographic dose diode. Reported dose and dose rate measurement results have an uncertainty of better than  $\pm 5\%$  at the 95% confidence level.

**Conditions of Measurement**

Temperature: 23.8 °C  
 Pressure: 99.87 kPa  
 Humidity: 42%

**NOTE:** All dose measurements were normalized to 22°C, 101.3 kPa.  
 "CF" = correction factor and True Reading = CF x Reading  
 All exposures were made with the DUT oriented perpendicular to the beam.  
 The beam is collimated to not expose the chamber stem (if applicable).

All Multi-Sensor readings were captured with: Accu-Gold 2.52.1

**Exposure Properties**

ISO Beam	Added Filtration (µm Mo)	First HVL (mm Al)	Set kV	Avg. Current mA	Avg. Time ms	Distance (Perp.)
RQR-M-3	32.6	0.361	30.3	11.2	406	48 cm

**Calibration Results**

Exposure #	Standard	DUT	DUT CF
	Dose mGy	Dose mGy	
1	3.105	3.124	0.994
2	3.107	3.126	0.994
3	3.106	3.123	0.995
Avg.	3.106	3.124	0.994

### MQSA Advisory Note

**Date:** 15 April 1999  
**Revision:** 01 June 2018  
**Topic:** FDA-MQSA "Final Rule for Quality Mammography Standards"

The FDA-MQSA "Final Rule for Quality Mammography Standards" (effective 28 April 1999), requires that all air kerma measuring instruments used by medical physicists in their annual survey of a mammography unit, must be calibrated at least once every two years, and each time it is repaired. The instrument calibration must be traceable to a national standard and calibrated with an accuracy of  $\pm 6\%$  (95% confidence level) in the mammography energy range. Traceable to a national standard means an instrument is either calibrated at NIST or at a calibration laboratory that participates in a proficiency test with NIST at least every 2 years and the results of the proficiency test shows agreement within 3% of the national standard in the mammography energy range.

Radcal has met these requirements (ref: NIST Proficiency Report DG13398/18 dated 01 June 2018). The repetition of your calibration can wait until up to two years after the last calibration or until after the next repair, whichever comes first.

If your instrument was calibrated in Roentgens, air kerma is related to the exposure by the equation:

$$K = 2.58 \times 10^{-4} \cdot (W/e) \cdot X / (1-g)$$

Where:

- K is air kerma in grays (Gy)
- W/e is the mean energy per unit charge expended by electrons in dry air in Joules per coulomb (J/C): the value used at NIST is  $W/e = 33.97 \text{ J/C}$
- X is the exposure in roentgens (R)
- g is the fraction of the initial kinetic energy of secondary electrons dissipated in air through radiative processes: the value used at NIST is  $g = 0.00$  for x-rays with energy less than 300 keV.