Dulcy Ellen Wolverton, M.D.

Biographical

Current Position: Associate Professor

 Section Chief, Breast Imaging

 Program Director, Breast Imaging Fellowship

 Department of Radiology

 University of Colorado School of Medicine (CUSOM)

Office Address: University of Colorado School of Medicine

 Department of Radiology

 12401 E. 17th Avenue, MS L954

 Aurora, CO 80045

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Mobile Phone: 415-200-9395

E-mail Address: Dulcy.Wolverton@cuanschutz.edu

Education

1977-1983 Stanford University

 Stanford, California

 B.S., Biological Sciences

 A.B., Psychology

1981-1983 Stanford University

 Stanford, California

 M.S., Biological Sciences

1984-1988 St. Louis University School of Medicine

 St. Louis, Missouri

 M.D., conferred Cum Laude

Post-Doctoral Training

1988-1992 Diagnostic Radiology Residency

 University of Chicago Hospitals

 Chicago, Illinois

1992-1993 Mammography Fellowship

 University of California, San Francisco (UCSF)

 San Francisco, California

 Fellowship Director: Edward A. Sickles, MD

2014-2015 Advanced Physician Leadership Program, Fellow

 Colorado Medical Society and the Regional Institute for Health and Environmental Leadership (RIHEL)

 Project: “Unique Barriers Physicians Face as Patients”

Academic Appointments

1992-1993 Clinical Instructor in Mammography

 UCSF School of Medicine

 San Francisco, California

1993-1997 Assistant Professor of Radiology, Undifferentiated

 University of Chicago School of Medicine

 Chicago, Illinois

1997-1998 Assistant Professor of Clinical Radiology

 University of Chicago School of Medicine

 Chicago, Illinois

1999-2005 Associate Professor of Clinical Radiology

 UCSF School of Medicine

 San Francisco, California

2016-2018 Visiting Associate Professor of Radiology

 University of Colorado School of Medicine

 Aurora, Colorado

2018-present Associate Professor of Radiology

 University of Colorado School of Medicine

 Aurora, Colorado

**Hospital Appointments**

1993-1998 Attending Radiologist

 University of Chicago Hospitals

 Chicago, Illinois

1998-1999 Locum Tenens Radiologist

 Peninsula Mammography

 San Mateo, California

1999-2005 Attending Radiologist

 Breast Imaging

 UCSF-Mt Zion Cancer Center

 San Francisco, California

2000-2005 Attending Radiologist

 Department of Radiology, Breast Imaging

 San Francisco General Hospital

 San Francisco, California

2005-2008 Attending Radiologist

 Affiliates in Imaging

 Oakland, California

* Carol Ann Read Breast Center

Alta Bates Summit Medical Center

Oakland, California

* St. Luke’s Hospital

Radiology Department, Breast Imaging

San Francisco, California

2008-2016 Attending Radiologist

 Radiology Imaging Associates

 Englewood, Colorado

* Sally Jobe Breast Center

Greenwood Village, Colorado

* Colorado Breast Care

The Medical Center of Aurora (TMCA)

Aurora, Colorado

* Colorado Breast Care

Centennial Medical Plaza

Centennial, Colorado

2016-present Attending Radiologist

 UCHealth Diane O’Connor Breast Center

 University of Colorado Hospital

 Anschutz Medical Campus

 Aurora, Colorado

2016-present Attending Radiologist

 UCHealth Breast Center at Lone Tree

 Lone Tree Medical Center

 Lone Tree, Colorado

2019-present Attending Radiologist

 UCHealth Breast Center at Highlands Ranch

 Highlands Ranch Hospital

 Highlands Ranch, Colorado

2020-present Attending Radiologist

 UCHealth Breast Center at Cherry Creek

 Cherry Creek Medical Center

 Denver, Colorado

2021 Attending Radiologist

 Department of Radiology, Breast Imaging

 Denver Health Medical Center

 Denver, Colorado

**Leadership Positions**

**Hospital**

1995-1997 Director of Clinical Operations

 Mammography Section

 University of Chicago Hospitals

1997-1998 Mammography group leader

 Breast Center Task Force

 University of Chicago Hospitals

2005-2008 Director of Breast Imaging

 St. Luke’s Hospital

 San Francisco, California

2005-2008 Director of Breast MRI

 Alta Bates Summit Medical Center

 Oakland, California

2010-2013 Medical Director

 Breast Imaging, Women’s Health Pavilion at TMCA, North campus

 Aurora, Colorado

2011-2016 Breast Program Leader

 Medical Center of Aurora Breast Cancer Program

 National Accreditation Program of Breast Centers (NAPBC)

2013-2016 Medical Director

 Colorado Breast Care at the Medical Center of Aurora (TMCA)

 Aurora, Colorado

2013-2016 Medical Director

 Colorado Breast Care at Centennial Medical Plaza

 Centennial, Colorado

**Departmental**

1998 Acting Section Chief, Mammography

 Department of Radiology

 University of Chicago School of Medicine

 Chicago, Illinois

2016-present Section Chief, Breast Imaging

 Department of Radiology

 University of Colorado School of Medicine

 Aurora, Colorado

2021-present Program Director, Breast Imaging Fellowship

 Department of Radiology

 University of Colorado School of Medicine

 Aurora, Colorado

**University / Schools of Medicine**

**University of Colorado SOM Comprehensive Cancer Center (NCI-designated)**

2017-present Local PI for TMIST (Tomosynthesis Mammographic Imaging Screening Trial), ECOG-ACRIN 1151

2017-present Primary Radiologist responsible for research MRI image quality

2018-2024 ECOG-ACRIN Primary Investigator

Honors, Special Recognitions and Awards

1987 AOA Medical Honor Society

1988 Janet M. Glasgow Memorial Achievement Citation

1988 M.D. degree conferred cum laude

1997-1999 GE AUR Radiology Research Academic Fellowship (GERRAF)

2023 Nominated Teacher of the Year, Dept. of Radiology CUSOM

2025 Fellow, Society of Breast Imaging

Memberships in Professional Organizations

1988-present Radiological Society of North America

1988-present American Roentgen Ray Society

1988-1998 Chicago Radiological Society

1992-present American College of Radiology

1992-present Society of Breast Imaging

1992-1999 American Association of Women Radiologists (AMWA)

1992-1993 AMWA Greater San Francisco Bay Area Chapter

1992-1993 San Francisco Radiological Society

1996-2005 Association of University Radiologists

1999-2005 California Radiological Society

2008-present Colorado Medical Society

2012-present Colorado Radiological Society

Committee and Service Responsibilities

Committee Participation

**Departmental**

**University of Chicago SOM, Department of Radiology**

1994-1998 Radiology Resident Selection Committee

1994-1996 Film Library Task Force

1994-1998 Digital Research Strategy Group

1997 Nuclear Medicine Section Chief Search Committee

**University of Colorado SOM, Department of Radiology**

2017-present Promotions & Tenure Committee

2017-present Radiology Clinical Operations Meetings

2017-present Education Leadership Meetings (PEC)

2017-present Quarterly Quality Assurance Meetings

2017-present Section Chiefs/Leadership Meetings

2023-present Vice Chairs and Division/Section Chiefs Meetings

2023-present Alternate Pathway Fellowship Committee

2025-present Mentorship Committee

**University of Colorado SOM, Department of Surgery**

2016-present Interviewer, Breast Surgery Faculty Candidates

2024-present Department of Surgery Breast Research Group

**Schools of Medicine**

**University of Chicago**

1995-1998 Cancer Research Center (NCI designated), Executive Committee

1995-1998 Multidisciplinary Breast Cancer Journal Club

1995-1998 High-Risk Breast Cancer Digital Research Group

1995-1998 University of Chicago Radiology Review Course Committee

1998 Cancer Committee, Radiology Representative

**University of Colorado Comprehensive Cancer Center (NCI-designated)**

2017-present ***TMIST*** (Tomosynthesis Mammographic Imaging Screening Trial), Multi-institutional trial, EA1151, CRC/CRA research meetings

2017-present ***I-SPY 2 Trial*** (Investigation of Serial Studies to Predict Your Therapeutic Response with Imaging And MoLecular Analysis 2)

2019-present Imaging Working Group

2022-present Biomarkers Subgroup

2024-present Brain Metastases Working Group

2024-present CUSOM Research Coordinator Meetings

2024-present Cancer Clinical Trials Office (CCTO), Breast Team member

2024-present CCTO Cancer Prevention and Early Detection Steer Group

2025- Clinical Member

**Hospital**

**University of Chicago Hospitals**

1996-1997 Radiology Patient Care Committee

1997-1998 Breast Center Task Force (Mammography group leader)

1998 External Referring Physician Service Improvement Team

**The Medical Center of Aurora (TMCA)**

2011-2016 Breast Cancer Program NAPBC Meetings (Breast Program Leader) NAPBC = National Accreditation Program of Breast Centers

**University of Colorado Hospital (UCH)**

2017-2018 Institute for Healthcare Quality, Safety and Efficiency (IHQSE)

Mini-Certificate of Training Program (CTP)

2017-present Radiation Safety Committee

2018-present Authorized User, Iodine-125 or Pd-103 sealed sources (seeds) as temporary implants for radioactive seed localization of non-palpable lesions and lymph nodes

2018-2023 Hospital Ethics Committee (dissolved by UCH in 2023)

2021-present Authorized User, Unsealed radioactive material for imaging and localization studies

**UCHealth Enterprise (Denver Metro Breast Imaging representative)**

2017-2020 Mammography Steering Committee

2017-2020 Breast Imaging Strategy Group

2017-2019 Highlands Ranch Hospital, Breast Center Planning Group

2017-2020 Cherry Creek Medical Center, Breast Center Planning Group

2018-2020 HRH Breast Program Steering Committee

2019-2021 HRH NAPBC Planning Group

2020-2023 HRH Breast Program Leadership Committee

2021-present UCHealth Metro Denver Breast Program Physician Leaders

2021-2023 Epic Mammography Implementation Project

2023-present Epic Breast Imaging Steer Committee

2024-present System Radiology Privileges Team

**Regional**

**Colorado Medical Society**

2015 Colorado Medical Society Spring Meeting Planning Committee

**National**

**The Susan G. Komen Breast Cancer Foundation**

2004-2006 San Francisco Bay Area Affiliate, Community Council Member

**National Comprehensive Cancer Network (NCCN)**

2022-present NCCN Breast Cancer Screening and Diagnosis Panel

**American College of Radiology (ACR)**

2025-present ACR Radiology Oral Board Development Team

**International**

**EnCompass, BD (Becton Dickinson)**

2024-present Advisory Board Panel Member

Committee and Service Responsibilities

Service Activities

**Invited Intramural Lectures and Presentations**

 **University of Chicago**

1994 Human Genome Project & Women Core Group lecture:

 “Overview of Screening Mammography, Evidence for Screening Benefit, and Controversial Issues”

1995 Grand Rounds, Department of Obstetrics and Gynecology:

 “Screening Mammography”

1995 Celebrating 100 Years of Women’s Health Care, University of Chicago Hospitals consumer seminar: “Advances in Mammography”

**UCSF**

2000 Grand Rounds, Department of Radiology:

 “New Breast Imaging Modalities”

2001 Bay Area Breast Cancer Forum, UCSF Comprehensive Cancer Center: “Mammograms & Other Imaging Techniques: Is a Picture Worth a Thousand Words?”

2003 Joint Women’s Health – Breast Oncology Program Scientific Retreat, Women’s Health Forum: What Every Woman Needs to Know About Screening Tests for Breast, Cervical and Ovarian Cancer: “Challenges in Reading Mammograms”

2003-2005 Selective Sentinel Lymphadenectomy and Breast Ultrasound Course, UCSF Department of Surgery: “Interpretation and Pitfalls of Breast Ultrasound;” Lecture and workshop given once each year

**The Medical Center of Aurora**

2014 Nursing Grand Rounds: “Breast Cancer Screening”

2015 Breast Cancer Symposium: “Breast Cancer Screening”

**University of Colorado/UCHealth**

2017 UCHealth/Lone Tree Breast Center CME dinner presentation, Updates in Breast Cancer:

 “3D Mammography/Digital Breast Tomosynthesis (DBT): What Is It, and Why Is It Important?”

 Lone Tree, Colorado

2018 UCHealth CME dinner presentation

 “My Patient Has Dense Breasts: Now What?”

 Englewood, Colorado

2019 Breast Cancer Imaging lecture for the NCTN (NCI’s National Clinical Trials Network) Retreat hosted by the University of Colorado Cancer Center

2024 “No lunch and learn” educational session for Breast Center staff covering basic breast imaging

2025 “Breast Ultrasound” instructional lecture for UCHealth sonographers

**Intramural Community Public Service**

**UCSF**

2001-2002 Take Our Daughters to Work Day: Presentation of breast imaging service to the children of UCSF employees

**The Medical Center of Aurora, Colorado Breast Care**

2016 Breast Cancer Support Group discussion

**University of Colorado/UCHealth**

2016 Advisory meeting with Colorado State Senator Angela Williams for Breast Density Notification bill, SB17-142

2017 Interview for CU Health Plan **Be Colorado** online newsletter: “3D mammography and the impact of early intervention” <https://www.becolorado.org/newsroom/3D_Mammograms>

2019 Speaker representing UCHealth at the American Cancer Society walk “Making Strides Against Breast Cancer 5k”

2020 Speaker at the UCHealth Breast Center: COVID-19 Impact Town Hall, “The importance of screening, how we have altered the experience of safety and optimal time with patients”

2021 Interview for UCHealth Todayonline newsletter: “Breast cancer screening or COVID-19 vaccination? Do both.” <https://www.uchealth.org/today/breast-cancer-screening-mammogram-and-covid-19-vaccination/>

2023 9News Live In-Studio interview regarding the use of AI in detecting breast cancer, 4/11/2023

2024 Interview for Colorado Health Matters TV show regarding role of breast imaging in the UCHealth multidisciplinary breast clinic

**University of Colorado SOM Comprehensive Cancer Center**

2022 Featured expert interview for the UC Cancer Center website: <https://news.cuanschutz.edu/cancer-center/what-to-expect-from-a-screening-mammogram>

2023 Interview on USPSTF change in screening mammography guidelines:

[https://news.cuanschutz.edu/cancer-center/lowering recommended-age-for-mammograms](https://news.cuanschutz.edu/cancer-center/lowering%20recommended-age-for-mammograms)

**Extramural Community Public Service**

**Y-ME National Breast Cancer Organization**

1998-1999Open Door Support Group Presentations:

 “New Imaging and Screening Mammography Techniques”

 Schaumburg, Illinois

 “Advances in Mammography” Chicago, Illinois

 “Mammography for the Millennium” Chicago, Illinois

**National Youth Leadership Forum**

2000-2005 Medical Specialist Seminars (Radiology)

 Presentations of general radiology cases to high school students

 Berkeley, California

**Oakland Tech High School**

2005 Breast Imaging lecture for “Art and Breast Cancer” course

 Oakland, California

**Alta Bates Summit Medical Center**

2005 “Breast Cancer Update”

 Participant in mock tumor board for the interested public, given twice

 Oakland, California

**University of Denver**

2010 Demonstration of the Radiology Department to 3rd and 4th grade students at Ricks Center for Gifted Children

 Medical Center of Aurora, North campus

 Aurora, Colorado

Medical Licensure

1988-1998 Illinois (Voluntarily not renewed)

1992-2019 California (Voluntarily not renewed)

2008-present Colorado

Board Certification

1983 Board of Registered Polysomnographic Technologists, Registry #81

1992 American Board of Radiolog

Patents

1. Giger ML, Al-Hallaq H, **Wolverton DE**, Bick U: Method and system for the automated analysis of lesions in ultrasound images. United States Patent 5,984,870, 1999. I occasionally receive royalties from this patent. [130 citations on[Google Scholar](https://scholar.google.com/citations?hl=en&user=vUvkp2QAAAAJ&view_op=list_works&citft=1&citft=2&email_for_op=dulcy.wolverton%40ucdenver.edu&gmla=AJsN-F7JkNyCZhD91_Vg8_broHLgQgLWC6kjwm7rzabd6eJikqqAjQ0L9-10gEDK2bqtLfSELVOvPP677UQ8PyvcjZ8r-xy4Grn7xy)]

Review and Referee Work

**Service to Professional Organizations**

1998-2003 ACR Mammography Accreditation Program Clinical Reviewer

**Service to Professional Publications**

1995-2005 Reviewer, American Journal of Roentgenology (AJR)

 (refereed over 20 papers and wrote 3 published book reviews)

1998-2005 AJR Editorial Advisory Panel, Breast Imaging

**Referee Work**

1996 Session Chair, Third International Workshop on Digital Mammography

 Chicago, Illinois

Invited Extramural Lectures & Presentations

**Local**

1994 Third Annual Striving for Excellence in Mammography Workshop,

 “Screening Mammography: Who, What, When, Where, Why”

 Chicago, Illinois

1996 Fourth Annual Striving for Excellence in Mammography Workshop “Why Do Work Up?”

 Chicago, Illinois

1997 Trends in Women’s Health Care, Philippine Medical Association

 “Mammography Overview and Screening Issues”

 Chicago, Illinois

1997-1998 Osler Radiology Resident Review Course

 “Mammography I & II” (2 lectures each year)

 Chicago, Illinois

1998 Mock oral board sessions, Osler Radiology Resident Review Course

2001 UCSF Annual Review in Family Medicine, Breast Cancer Symposium “Current Imaging Techniques,” lecture and panel discussion

 San Francisco, California

2001 Summit Hospital Tumor Board presentation

 “MRI of the Breast”

 Oakland, California

2002 Kaiser Permanente Medical Group, San Francisco

 “Contrast-Enhanced Breast MRI”

 San Francisco, California

2003 Kaiser Permanente Medical Group, Oakland

 “Role of MRI in the Management of Breast Cancer”

 Oakland, California

2004 Markstein Cancer Education Center, Summit Hospital

 “Breast Imaging Beyond Mammography”

 Oakland, California

2006 Bay Area Breast Cancer Forum, “Update in Breast Imaging”

 Markstein Cancer Education Center, Summit Hospital

 Oakland, California

2007 Breast Health CME Program

 California Pacific Medical Center, St. Luke’s campus

 “How to Optimally Manage Patients with Cancer and Benign Lesions,” Joint lecture and panel with Dr. Lora Burke, breast surgeon

 San Francisco, California

**Regional**

1997 3rd Illinois Breast Cancer Summit

 “Mammography Screening Issues: Guidelines, New Modalities, and Interpreting the Radiologist’s Report”

 Chicago, Illinois

1999 1999 Midwest Clinical Conference

 “Mammography Screening”

 Chicago, Illinois

2001 Sacramento Area Mammography Society (technologist CE conference)

 “Quality Imaging”

 Sacramento, California

2001 Los Angeles Radiological Society,

 Summer Seminar in Breast Imaging: 3 lectures given

 “Diagnostic Breast Imaging: How, When and Why to Do Extra Views”; “Interventional Breast Procedures”; “Current Status of and Future Applications for Digital Mammography”

 Los Angeles, California

2007 American College of Surgeons, Northern California Chapter

 Plenary Session I: “Imaging of Breast Cancer”

 San Francisco, California

2015 Colorado Medical Society Spring Conference

 Breakout Group Focused Discussion: “When Physicians Become Patients.” Presentation and discussion resulting from a project my colleagues and I completed for the Advanced Physician Leadership Program.

 Vail, Colorado

2017 Colorado Cancer Coalition Annual Symposium,

 Cancer Screening Guidelines Panel: “Breast Cancer Screening”

 Westminster, Colorado

2025 Rocky Mountain Oncology Society, *Official SABCS (San Antonio Breast Cancer Symposium) Review:* “Radiology Updates from the 2024 SABCS”

 Denver, Colorado

**National**

1998 Osler Radiology Resident Review Course (oral boards preparation)

 “Mammography I & II” (2 lectures)

 Louisville, Kentucky

1999 American Medical Women’s Association 84th Annual Meeting

 “Update on Breast Cancer Detection and Treatment,” lecture and panel discussion

 San Francisco, California

2019 Society of Computed Body Tomography and Magnetic Resonance (SCBT-MR) Annual Meeting

 “Abbreviated Breast MRI”

 Denver, Colorado

**Teaching Record**

**University of Chicago (UChicago) School of Medicine**

Formal scheduled classes for medical, graduate & PGY students:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Institution | Qtr | Course | Level | Role |
| UChicago | 1997-98 | Radiology 356 | Grad. | Breast lectures |
| UChicago | W 98 | Medical Imaging | 4th yr | Breast lecture and discussion |
| UChicago | S 98 | Essentials of Medical Imaging | 2nd yr | Breast lecture |

1993 – 1998 UChicago SOM: radiology resident teaching conferences on breast imaging biweekly and resident summer minicourses: 2 to 3 lectures on breast imaging.

1993 – 1998 UChicago SOM: senior radiology resident board review sessions (at least 3) lasting up to 5 hours each spring.

1995 University of Illinois, Chicago: invited to give bimonthly radiology resident teaching conferences due to shortage of Radiology faculty

1997-1998 Dissertation Committee Member, Zhimin Huo, “Computerized methods for classification of masses and analysis of parenchymal patterns on digitized mammograms”, University of Chicago, Department of Radiology, Graduate Program in Medical Physics.

1998 UChicago SOM, Breast imaging lecture for surgical oncology residents

**University of Chicago School of Medicine, Department of Radiology**

**Postgraduate CME Courses, 1995-2003** (27 lectures, 22 workshops)

Note that from 1995 through 1997, I was on the faculty of the University of Chicago. I joined the UCSF faculty in 1999, so I was *invited* faculty from 1999 through 2003.

1995 Radiology Review Course, Chicago, Illinois (3 lectures)

1996 Radiology Review Course, Chicago, Illinois (2 lectures)

1997 Radiology Review Course, Chicago, Illinois (2 lectures)

1997 Diagnostic Radiology Course, Palm Beach, Florida (2 lectures and 2 workshops)

1998 Radiology Review Course, Chicago, Illinois (2 lectures)

1999 Breast Imaging and Diagnostic Radiology Course, Boca Raton, Florida

 **I organized the breast imaging portion of the course, gave 2 lectures, and ran 4 workshops**

1999 Breast Imaging and Radiology Review Course, Chicago, Illinois

 **I organized and moderated the breast imaging weekend course, gave 2 lectures, and ran 4 workshops**

2000 7th Annual Breast Imaging & Update in General Diagnostic Imaging,

Boca Raton, Florida

 **I organized the breast imaging portion of the course, gave 2 lectures, and ran 4 workshops**

2000 University of Chicago Radiology Review & Breast Imaging Weekend, Chicago, Illinois

 **I moderated half of the breast imaging weekend course, gave 3 lectures, and ran 2 workshops**

2001 University of Chicago Radiology Review & Breast Imaging Weekend, Chicago, Illinois (2 lectures and 2 workshops)

2002 University of Chicago Radiology Review & Breast Imaging Weekend**,** Chicago, Illinois (2 lectures and 2 workshops)

2003 University of Chicago Radiology Review & Breast Imaging Weekend, Chicago, Illinois (3 lectures and 2 workshops)

**UCSF School of Medicine**

FORMAL SCHEDULED CLASSES FOR MEDICAL, GRADUATE & PGY STUDENTS:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Institution | Qtr | Course | Level | Role |
| UCSF | W 00, 02 | Pathology 102 | 2nd yr | Multidisc. Conf. Participant |
| UCSF | W 2000-02 | Radiology 100 | 2nd yr | Mammography Lectures |
| UCSF | 2000-06 | Radiology 140 | 4th yr | Breast Imaging Lectures |
| UCSF | 2003 | Breast Oncology Program | Grad | 2 Lectures  |

2000 Breast imaging lecture for UCSF radiation oncology conference

**UCSF Department of Radiology Postgraduate CME Courses** (51 lectures, 58 workshops)

1999 Breast Imaging Course, Rancho Mirage, California (2 lectures and 3 workshops)

1999 Breast Imaging Course, Kona, Hawaii (2 lectures and 3 workshops)

2000 Diagnostic Radiology Course, Phoenix, Arizona (5 lectures)

2000 Breast Imaging Update, San Francisco, California (3 lectures and 4 workshops)

2000 Breast Imaging Course, Rancho Mirage, California (2 lectures and 3 workshops)

2000 Breast Imaging Course, Kona, Hawaii (2 lectures and 3 workshops)

2001 Breast Imaging Update, San Francisco, California (3 lectures and 4 workshops)

2001 Breast Imaging Course, Indian Wells, California (2 lectures and 3 workshops)

2001 Breast Imaging Course, Lahaina, Hawaii (2 lectures and 3 workshops)

2002 Breast Imaging Update, San Francisco, California (3 lectures and 4 workshops)

2002 Breast Imaging Course, New Orleans, Louisiana (4 lectures and 4 workshops)

2002 Breast Imaging Course, Rancho Mirage, California (2 lectures and 3 workshops)

2002 Breast Imaging Course, Kona, Hawaii (2 lectures and 3 workshops)

2003 Breast Imaging Update, San Francisco, California (3 lectures and 4 workshops)

2003 Breast Imaging Course, New Orleans, Louisiana (4 lectures and 4 workshops)

2003 Breast Imaging Course, Lahaina, Hawaii

 **I moderated 2 panels, gave 2 lectures, and ran 3 workshops**

2004 Breast Imaging Update, San Francisco, California (3 workshops)

2004 Diagnostic Radiology Course, Kona, Hawaii (5 lectures)

2005 Breast Imaging Course, San Francisco, California (3 lectures and 4 workshops)

**CME Lecture and Workshop Presentation Titles (1995-2005):**

1. “Screening Study Statistics and Breast Pathology”
2. “Calcifications and Other Signs of Malignancy”
3. “Principles of Mammography”
4. “Breast Calcifications”
5. “Quizzical Calcifications and Pathologic Proof”
6. “How Ultrasound Can Improve Your Mammographic Practice”
7. “Screening Mammography” (workshop)
8. “The Role of Core Needle Breast Biopsy in Patient Management”
9. “Sentinel Nodes: Imaging and Prognostic Value”
10. “Diagnostic Mammography” (workshop)
11. “Interventional Breast Ultrasound” (workshop)
12. “New Imaging Modalities”
13. “Diagnostic Breast Imaging: Why and How”
14. “BIRADS Category 3: The Probably Benign Mammogram”
15. “Sentinel Nodes: Impact on Management”
16. “Unknown Cases in Mammography”
17. “Sentinel Node Imaging”
18. “Imaging Evaluation and Follow-Up of the Breast Cancer Patient”
19. “Imaging of Lobular Carcinoma”
20. “Breast Ultrasonography”
21. “Integration of Breast MRI into Your Clinical Practice”
22. “Interventional Breast Ultrasound” (workshop giving US-guided core biopsy training using phantoms and discussing tricks of the trade)
23. “Diagnostic Breast Imaging: How, When and Why to Get Extra Views”
24. “New Frontiers in Breast Imaging”
25. “Interventional Breast Imaging: Challenging Cases” (workshop)
26. “How Ultrasound Can Improve Your Mammographic Practice”
27. “Breast Calcifications: Difficult Cases”
28. “How to Recognize Subtle Mammographic Signs of Malignancy”
29. “Current Status of and Future Developments for Breast MRI”
30. “Current Status of and Future Applications for Digital Mammography”
31. “Ultrasound-guided Interventional Breast Procedures”
32. “Breast Ultrasound Examination: An Increasingly Valuable Diagnostic Tool”
33. “Problem-Solving Breast Imaging: Challenging Cases” (workshop)
34. “Imaging of Invasive Lobular Carcinoma, Updated”
35. “Breast Ultrasonography: An Invaluable Diagnostic Tool”
36. “Interventional Mammography”
37. “Interventional Breast Ultrasonography”
38. “Imaging-Guided Biopsy of Nonpalpable Breast Lesions: Determining Concordance Between Imaging and Pathological Findings”
39. “Interventional Breast Procedures: Choosing the Right Tool for the Job”
40. “Breast Ultrasound: Old and New Uses”
41. “Problem-Solving Breast Imaging”
42. “Subtle Breast Imaging Signs of Malignancy”
43. “Contrast-Enhanced MRI for Breast Cancer Detection: Evaluation and Follow-up”
44. “Approach to Conducting Diagnostic Mammography Examinations: When, How, and Why to Do Extra Views”
45. “Current Status of and Future Applications for Breast MRI”
* Note that many of these lectures and workshops were “canned talks” and were given multiple times throughout each year’s conference cycle.
* Also, in the 2003 Hawaii course, the 2 panels I moderated were: “Mammography Practice Management: Scheduling, Throughput, Previous Films, Double Reading, Other Issues” and “Alternative Breast Imaging Technologies”

**University of Colorado School of Medicine**

**Medical Student teaching activities**

2016 Introduction to Breast Imaging lecture for 1st and 2nd year CUSOM medical students in the Radiology Interest Group

2018-19 Breast Imaging and Pathology Bar Lab lecture for 3rd year medical student Women’s Care block given every 6 weeks and co-taught with pathology colleagues. My pathologist colleague, Dr. Sharon Sams, and I created the PowerPoint presentation demonstrating the imaging and corresponding pathology findings in common breast diseases (benign and malignant). This was an interactive course where after instruction, students were able to discuss the findings in the context of the clinical scenarios.

2019-20 Breast Imaging and Pathology Bar Lab lecture for 3rd year medical student Surgical block given every 8 weeks and co-taught with pathology colleagues

2020- Faculty, RADI 8000, 4th year medical student radiology elective, including 1 week in breast imaging depending on interest. Breast imaging was added to the regular general radiology rotations in 2023.

2023- Key Faculty, SURG 8004, Multidisciplinary Breast Care, 4th year medical student 4-week elective. Students rotate ½ day in breast imaging each week

**Medical Students mentored**

2017 I was asked by my breast surgical colleague, Dr. Colleen Murphy, to take over mentorship of Alexandra Colvin, MS3. Alex had started a manuscript reviewing screening mammography guidelines under the guidance of a former breast radiology faculty member. She with another MS3 student, Thomas Wong, successfully submitted an educational exhibit abstract to the Radiologic Society of North America (RSNA), comparing and contrasting the diverse screening mammography guidelines and recommendations at the time. The exhibit was presented at the 2017 RSNA meeting in Chicago.

 Colvin A, Wong T, **Wolverton D** (senior author)**:** Keeping abreast of the latest mammography guidelines: What radiologists should know (educational exhibit). 103rd Radiologic Society of North America Assembly and Annual Meeting, Chicago, 11/26-12/1/2017, abstract# BR200-ED-X. [archive.rsna.org/2017/17015804.html](http://archive.rsna.org/2017/17015804.html)

2024 Mentored and wrote a letter of recommendation for Jasmine Polkowske, MS4, who I instructed during her SURG 8004 elective. She was applying to radiology residency programs and interested in going into breast imaging. She successfully matched into her top-choice program at the Medical University of South Carolina.

**Radiology Resident Mentoring**

**2021-4** Benjamin Himelhoch; Encouraged Ben to consider breast imaging for his fellowship and introduced him to Dr. Sarah Tevis, breast surgeon, so that he could assist in her work on the impact of the immediate release of information act on patients. Ben successfully completed his breast imaging fellowship at the University of Michigan in 2025.

 **Peer-reviewed journal articles:**

1. Leonard LD, **Himelhoch B**, Huynh V, Wolverton D, Jaiswal K, Ahrendt G, Sams S, Cumbler E, Schulick R, Tevis SE. Patient and clinician perceptions of the immediate release of electronic health information. Am J Surg. 2022 Jul;224(1 Pt A):27-34. doi: 10.1016/j.amjsurg.2021.12.002. Epub 2021 Dec 4. PMID: 34903369. [24 citations] <https://pubmed.ncbi.nlm.nih.gov/34903369/>
2. Verosky A, Leonard LD, Quinn C, Vemuru S, Warncke E, **Himelhoch B**, Huynh V, **Wolverton D**, Jaiswal K, Ahrendt G, Sams S, Lin CT, Cumbler E, Schulick R, Tevis SE. Patient comprehension of breast pathology report terminology: The need for patient-centered resources. Surgery. 2022 Sep;172(3):831-837. PubMed PMID: 35715235 [14 citations] <https://pubmed.ncbi.nlm.nih.gov/35715235/>
3. O’Brien E, Vemuru S, Leonard L, **Himelhoch B**, Adams M, Taft N, Jaiswal K, Sams S, Cumbler E, Wolverton D, Ahrendt G, Yi J, Lin CT, Miles R, Hampanda K, Tevis S. Information transparency with immediate release: Oncology clinician and patient perceptions. Am J Surg. 2024 Jan; 227:165-174. doi: 10.1016/j.amjsurg.2023.10.015. Epub 2023 Oct 5. PMID: 37863801 [7 citations]<https://pubmed.ncbi.nlm.nih.gov/37863801/>

 **Scientific presentations:**

1. Leonard LD, **Himelhoch B**, Huynh V, Wolverton D, Ahrendt G, Jaiswal K, Sams S, Cumbler E, Schulick R, Tevis SE: Patient and Provider Perceptions of the Immediate Release of Electronic Health Information. Oral presentation by Leonard LD at SWSC Annual Meeting, Maui, HI, September 2-5, 2021.
2. Verosky A, Leonard LD, Vemuru S, **Himelhoch B**, Huynh V, Wolverton D, Jaiswal K, Ahrendt G, Kim S, Cumbler E, Tevis SE: Patient Comprehension of Breast Pathology Report Terminology: The Need for Patient-Centered Resources. Academic Surgical Congress, February, 2022, Orlando, FL.
3. Leonard LD, Verosky A, Vemuru S, **Himelhoch B**, Huynh V, Wolverton D, Jaiswal K, Ahrendt G, Kim S, Cumbler E, Tevis SE: What Women Want: Patient Perceived Utility of Breast Biopsy Educational Materials. Academic Surgical Congress, February, 2022, Orlando, FL.

**Radiology Resident teaching**

2016-present “Reading room” teaching interpretation of breast imaging studies (mammography and breast ultrasound and MRI examinations) using clinical context to narrow differential diagnoses with a focus on balancing sensitivity and specificity. Instruction and skill development in the performance of image-guided breast interventional procedures.

2017-present 2-4 core lectures/year on breast imaging to diagnostic radiology residents

Mentored Arielle Bauer, 2016-2018

**Radiation Oncology Resident teaching**

2017-18 Breast Imaging lecture for University of Colorado Radiation Oncology residents given once each year

2020-22 Breast Imaging lecture for University of Colorado Radiation Oncology residents given once each year

**University of Colorado/UCHealth Continuing Education (CE) courses for technologists**

2017 5th Annual Regional MRI Conference, CE conference for MR technologists

 “Breast MRI: The Essentials”

 University of Colorado Hospital

 Aurora, Colorado

2018 6th Annual Regional MRI Conference, CE conference for MR technologists

 “Breast MRI: Essentials and Updates”

 University of Colorado Hospital

 Aurora, Colorado

2024 “Hot Topics in MRI,” CE conference for MR technologists

 “Breast MRI: The Essentials”

 University of Colorado Hospital

 Aurora, Colorado

POSTDOCTORAL FELLOWS DIRECTLY SUPERVISED AND MENTORED

|  |  |  |  |
| --- | --- | --- | --- |
| Institution | Breast Imaging Fellow | Dates | Current Position |
| U. Chicago | Gertrude Birkhahn, MD | 1993 | Florida private practice |
| U. Chicago | John Stucka, DO | 1993-94 | New Jersey private practice |
| U. Chicago | Jonathon Lee, MD | 1994 | Indiana private practice |
| U. Chicago | Mitchell Sussman, MD | 1994-95 | Illinois private practice |
| U. Chicago | Christopher Comstock, MD | 1995-96 | Memorial Sloan-Kettering |
| U. Chicago | Michael Klouda, MD | 1997-98 | Texas private practice |
| U. Chicago | Paula Grabler, MD | 1998 | Rush University Med Ctr, Chicago |
| UCSF | Kathryn Pearson, MD | 1999 | Florida private practice |
| UCSF | Katherine Dee, MD | 1999-2000 | Washington private practice |
| UCSF | Elizabeth Burnside, MD | 2000-01 | University of Wisconsin, Madison |
| UCSF | Rita Sohlich, MD | 2000-01 | Palo Alto Medical Foundation, Calif. |
| UCSF | Lisa Kinoshita, MD | 2001-02 | Kaiser, Oakland, Calif. |
| UCSF | Lynn Chen, MD | 2001-02 | Unknown |
| UCSF | Tracy Dellaripa, MD | 2002-03 | Palo Alto Medical Foundation, Calif. |
| UCSF | Mohsen Anwar, MD | 2003 | Illinois private practice |
| UCSF | Sung Pak, MD | 2003-04 | Kaiser, Anaheim, CA |
| UCSF | Brian Vu, MD | 2004-05 | Palo Alto Medical Foundation, Calif. |
| U. Colorado | Kelly Borden, MD | 2017-18 | RIA No. Colorado private practice |
| U. Colorado | Anna Ward, MD | 2018-19 | Oklahoma private practice |
| U. Colorado | Sarah Jess, MD | 2019 | AMIC No. Colorado private practice |
| U. Colorado | Eamonn Quinn, MD | 2020-21 | Centura Colorado private practice |
| U. Colorado | Emily Warncke, MD | 2021-22 | RIA No. Colorado private practice |
| U. Colorado | Nhat-Tuan Tran, MD | 2021-22 | Denver Health |
| U. Colorado | Shane Gupta, MD | 2022-23 | University of Colorado SOM |
| U. Colorado | Aria Bagheri, MD | 2023-24 | RIA Denver metro private practice |

**Previous Grant Support**

**University of Chicago**

1. CAD in Digital Mammography

Principle Investigator: Robert M. Nishikawa, PhD

Time commitment: 10% (Investigator)

Supporting agency: DHHS, USPHS 1, R01 CA60187-01

Duration and level of funding: 11/1/95-12/31/97; $1,632,167

1. Cancers Missed on Mammography

 Principle Investigator: Robert A. Schmidt, MD

 Time commitment: 3% (Investigator)

 Supporting agency: US Army

 Duration and level of funding: 1996-1999; $803,237

1. Demonstration Project on Mammographic Computer-Aided Diagnosis for Breast Cancer Detection

 Principle Investigator: Kunio Doi, PhD

 Time commitment: 5% (Investigator)

 Supporting agency: US Army

 Duration and level of funding: 1996-1999; $1,963,360

1. Computer-Aided Diagnosis in Mammography and Its Effect on Radiologist Performance

 Principle Investigator: Dulcy E. Wolverton, MD

 Time commitment: 50%

 Supporting agency: GE-AUR Radiology Research Academic Fellowship

 Duration and level of funding: 7/1/97-6/30/99; $50,000/year (salary support only)

1. Computerized Radiographic Analysis for Breast Cancer Risk

 Principle Investigator: Maryellen L. Giger, PhD

 Time commitment: 5% (Investigator)

 Supporting agency: US Army

 Duration and level of funding: 1997-2000; $791,780

# UCSF

1. MRI for High Risk Breast Screening, Surveillance and Prognosis

Principle investigator: Nola Hylton, Ph.D.

Time commitment: 5% (Co-investigator)

Supporting Agency: California Breast Cancer Research Program

Duration and level of funding: 7/01/00-6/30/03; $169,414

1. Contrast-enhanced Breast MRI for Evaluation of Patients Undergoing Neoadjuvant Treatment for Locally-advanced Breast Cancer (ACRIN 6657)

Principle investigator: Nola Hylton, Ph.D.

Time commitment: 5% (Co-investigator)

Supporting Agency: American College of Radiology Imaging Network (ACRIN)

Duration and level of funding: 5/15/02 – 4/14/05; 1,191,940

1. MRI Evaluation of the Contralateral Breast in Women with a Recent Diagnosis of Breast Cancer (ACRIN 6667)

Principle investigator: Nola Hylton, Ph.D.

Time commitment: 5% (Co-investigator)

Supporting Agency: American College of Radiology Imaging Network (ACRIN)

Duration and level of funding: 8/15/03-8/14/05; $109,315

1. Breast Cancer Center of Excellence Award: “Blueprint for Regional Excellence in Breast Cancer Care” BC022339

Principle investigator: Laura Esserman, M.D.

Time commitment: 5% (Co-investigator)

Supporting Agency: Department of Defense

Duration and level of funding: 06/15/03 – 06/14/07; $6,814,977

1. Primary Hormonal Therapy for DCIS of the Breast

Principle Investigator: Shelley (Eun-sil) Hwang, M.D.

Time commitment: 5% (Collaborator, no support)

Supporting Agency: NIH/NCI

Duration and level of funding: 7/01/04-6/30/05; $630,207

**PEER-REVIEWED PUBLICATIONS**

Publication Impact: [Google Scholar](https://scholar.google.com/citations?hl=en&user=vUvkp2QAAAAJ&view_op=list_works&citft=1&citft=2&email_for_op=dulcy.wolverton%40ucdenver.edu&gmla=AJsN-F7JkNyCZhD91_Vg8_broHLgQgLWC6kjwm7rzabd6eJikqqAjQ0L9-10gEDK2bqtLfSELVOvPP677UQ8PyvcjZ8r-xy4Grn7xy) (all citations = 3782, h-index = 26, i10-index = 37; since 2020: 623 citations, h-index = 14, i10-index = 17); 60 publications have been cited to date with the number of citations for each indicated as **[#]**.

Note that published papers and abstracts under the name **Petta DE**, were related to my research activities during and after college (research assistant and polysomnographic technologist for sleep research scientists Drs. Mary Carskadon and Donald Bliwise) and during medical school (research assistant for Dr. Jim Spain working on opioid receptors).

**Journal Articles**

1. Bliwise DL, **Petta DE**, Seidel WF, Dement WC: Periodic leg movements during sleep in the elderly. Arch. Gerontol Geriatr. 4:273-281, 1985. **[55 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/4074025>
2. Spain JW, **Petta DE**, Coscia CJ: A comparison of microsomal and synaptic delta site binding kinetics. NIDA Res. Mon. 75: 109-112, 1986. **[1 citation]** <https://www.ncbi.nlm.nih.gov/pubmed/2828954>
3. Bliwise DL, Feldman DE, Bliwise NG, Carskadon MA, Kraemer HC, North CS, **Petta DE**, Seidel WF, Dement WC: Risk factors for sleep disordered breathing in heterogeneous geriatric populations. J Am. Geriatr. Soc. 35:132-141, 1987. **[129 citations]** [https://www.ncbi.nlm.nih.gov/pubmed/38055554](https://www.ncbi.nlm.nih.gov/pubmed/3805555).
4. Spain JW, **Petta DE**, Coscia CJ: Binding kinetics of delta opioid receptors differ for microsomal and synaptic sites. Mol. Pharm. 34:(1): 23-28, 1988. **[2 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/2839762>
5. Bliwise DL, Tinklenberg J, Yesavage JA, Davies H, Pursley AM, **Petta DE**, Widrow L, Guilleminault C, Zarcone VP, Dement WC: REM latency in Alzheimer's Disease. Biol. Psychiatry 25:320-328, 1989. **[119 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/2914155>
6. Bick U, Giger ML, Schmidt RA, Nishikawa RM, **Wolverton DE**, Lu P, Vyborny CJ, Doi K: Automated segmentation of digitized mammograms. Academic Radiology 2:1-9, 1995. **[170 citations]**<https://www.ncbi.nlm.nih.gov/pubmed/9419517>
7. Huo Z, Giger ML, Vyborny CJ, Bick U, Lu P, **Wolverton DE**, Schmidt RA: Analysis of spiculation in the computerized classification of mammographic masses. Medical Physics 22(10):1569-1579, 1995. **[300 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/8551981>
8. **Wolverton DE**, Sickles EA: Clinical outcome of doubtful mammographic findings identified prospectively on screening mammograms. AJR 167:1041-1045, 1996. (Reviewed by RJ Brenner in Breast Diseases: A Year Book® Quarterly 8(2):104-105, 1997). **[24 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/8819409>
9. Jiang Y, Nishikawa RM, **Wolverton DE**, Giger ML, Doi K, Schmidt RA, Vyborny CJ: Malignant and benign clustered microcalcifications: automated feature analysis and classification of. Radiology 198(3):671-678, 1996. **[351 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/8628853>
10. Huo Z, Giger ML, Vyborny CJ, **Wolverton DE**, Schmidt RA, Doi K: Automated computerized classification of malignant and benign masses on digitized mammograms. Academic Radiology 5(3):155-168, 1998. **[258 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/9522881>
11. Giger ML, Al-Hallaq H, Huo Z, Moran C, **Wolverton DE**, Chan CW, Zhong W: Computerized analysis of lesions in ultrasound images of the breast. Academic Radiology 6(11):665-674, 1999. **[98 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/10894069>
12. Huo Z, Giger ML, **Wolverton DE**, Zhong W, Cumming S, Olopade OI: Computerized analysis of mammographic parenchymal patterns for breast cancer risk assessment: feature selection. Medical Physics 27(1):4-12, 2000. **[133 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/10659732>
13. Huo Z, Giger ML, Vyborny CJ, **Wolverton DE**, Metz CE: Computerized classification of benign and malignant masses on digitized mammograms: A study of robustness. Academic Radiology 7(12):1077-1084, 2000. **[92 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/11131052>
14. Sickles EA, **Wolverton DE**, Dee KE: Performance parameters for screening and diagnostic mammography: Specialist and general radiologists. Radiology 224:861-869, 2002. **[317 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/12202726>
15. Huo Z, Giger ML, Olopade OI, **Wolverton DE**, Weber BL, Metz CE, Zhong W, Cummings SA: Computerized analysis of digitized mammograms of BRCA1 and BRCA2 gene mutation carriers. Radiology 225:519-526, 2002. **[175 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/12409590>
16. Partridge SC, Gibbs JE, Lu Y, Esserman LJ, Tripathy D, **Wolverton D**, Rugo HS, Hwang ES, Ewing CA, Hylton NM: MRI measurements of breast tumor volume predict response to neoadjuvant chemotherapy and recurrence-free survival. AJR 184(6):1774-81, 2005. **[345 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/15908529>
17. Jacobs TW, Chen YY, Guinee DG Jr, Holden JA, Cha I, Bauermeister DE, Hashimoto B, **Wolverton DE**, Hartzog G: Fibroepithelial lesions with cellular stroma on breast core needle biopsy: are there predictors of outcome on surgical excision? Am J Clin Pathol. 124(3):342-54, 2005. **[143 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/16191502>
18. Shah N, Gibbs J, **Wolverton D**, Cerussi A, Hylton N, Tromberg BJ: Combined diffuse optical spectroscopy and contrast-enhanced magnetic resonance imaging for monitoring breast cancer neoadjuvant chemotherapy: a case study. J Biomed Opt. 10(5):51503, 2005. **[91 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/16292947>
19. Esserman LJ, Kumar AS, Herrera AF, Leung J, Au A, Chen YY, Moore DH, Chen DF, Hellawell J, **Wolverton D**, Hwang ES, Hylton NM: Magnetic resonance imaging captures the biology of ductal carcinoma in situ. J Clin Oncol. 24(28):4603-10, 2006. **[155 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/17008702>
20. Meyerson AF, Lessing JN, Itakura K, Leung J, Au A, Chen YY, Moore DH, Chen DF, Hellawell J, **Wolverton D**, Hwang ES, Hylton NM: Outcome of long-term surveillance for estrogen receptor-positive ductal carcinoma in situ. The Breast 20(6):529-33, 2011. **[29 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/21843942>
21. Stavros AT, Freitas AG, deMello GG, Barke L, McDonald D, Kaske T, **Wolverton D**, Honick A, Sanzani D, Padovan AH, Moura AP, de Campos MC: Ultrasound positive predictive values by BI-RADS categories 3-5 for solid masses: An independent reader study. Europ. Radiol. 27(10):4307-4315, 2017. **[34 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/28396996>
22. Russell P, Fountain K, **Wolverton D**, Ghosh D: TCIApathfinder: an R client for The Cancer Imaging Archive REST API. Cancer Research 78(15):4424-4426, 2018. **[8 citations]** <https://www.ncbi.nlm.nih.gov/pubmed/29871933>
23. Kovar A, Bronsert M, Jaiswal K, Murphy, C, **Wolverton DE**, Ahrendt GM, Tevis, S: The waiting game: How long are breast cancer patients waiting for definitive diagnosis and treatment? ACS Ann Surg Oncol. 27(10):3641-3649, 2020. **[13 citations]** <https://pubmed.ncbi.nlm.nih.gov/32314153/>
24. Li W, Newitt DC, Gibbs J, Wilmes LJ, Jones EF, Arasu VA, Strand F, Onishi N, Nguyen AA, Kornak J, Joe BN, Price ER, Ojeda-Fournier H, Eghtedari M, Zamora KW, Woodard SA, Umphrey H, Bernreuter W, Nelson M, Church AL, Bolan P, Kuritza T, Ward K, Morley K, **Wolverton D**, Fountain K, Lopez-Paniagua D, Hardesty L, Brandt K, McDonald ES, Rosen M, Kontos D, Abe H, Sheth D, Crane EP, Dillis C, Sheth P, Hovanessian-Larsen L, Bang DH, Porter B, Oh KY, Jafarian N, Tudorica A, Niell BL, Drukteinis J, Newell MS, Cohen MA, Giurescu M, Berman E, Lehman C, Partridge SC Fitzpatrick KA, Borders MH, Yang WT, Dogan B, Goudreau S, Chenevert T, Yau C, DeMichele A, Berry D, Esserman LJ, Hylton NM: Predicting breast cancer response to neoadjuvant treatment using multi-feature MRI: results from the I-SPY 2 trial. NPJ Breast Cancer 6(1):63, 2020. **[67 citations]** <https://pubmed.ncbi.nlm.nih.gov/33298938/>
25. Onishi N, Li W, Newitt DC, Harnish RJ, Strand F, Nguyen AA, Arasu VA, Gibbs J, Jones EF, Wilmes LJ, Kornak J, Joe BN, Price ER, Ojeda-Fournier H, Eghtedari M, Zamora KW, Woodard S, Umphrey HR, Nelson MT, Church AL, Bolan PJ, Kuritza T, Ward K, Morley K, **Wolverton D**, Fountain K, Lopez Paniagua D, Hardesty L, Brandt KR, McDonald ES, Rosen M, Kontos D, Abe H, Sheth D, Crane E, Dillis C, Sheth P, Hovanessian-Larsen L, Bang DH, Porter B, Oh KY, Jafarian N, Tudorica LA, Niell B, Drukteinis J, Newell MS, Giurescu ME, Berman E, Lehman CD, Partridge SC, Fitzpatrick KA, Borders MH, Yang WT, Dogan B, Goudreau SH, Chenevert T, Yau C, DeMichele A, Berry DA, Esserman LJ, Hylton NM. Breast MRI during Neoadjuvant Chemotherapy: Lack of Background Parenchymal Enhancement Suppression and Inferior Treatment Response. Radiology. 2021 Nov;301(2):295-308. doi: 10.1148/radiol.2021203645. Epub 2021 Aug 24. PMID: 34427465; PMCID: PMC8574064. **[26 citations]** <https://pubmed.ncbi.nlm.nih.gov/34427465/>
26. Leonard LD, Himelhoch B, Huynh V, **Wolverton D**, Jaiswal K, Ahrendt G, Sams S, Cumbler E, Schulick R, Tevis SE. Patient and clinician perceptions of the immediate release of electronic health information. Am J Surg. 2022 Jul;224(1 Pt A):27-34. doi: 10.1016/j.amjsurg.2021.12.002. Epub 2021 Dec 4. PMID: 34903369. **[24 citations]** <https://pubmed.ncbi.nlm.nih.gov/34903369/>
27. Verosky A, Leonard LD, Quinn C, Vemuru S, Warncke E, Himelhoch B, Huynh V, **Wolverton D**, Jaiswal K, Ahrendt G, Sams S, Lin CT, Cumbler E, Schulick R, Tevis SE. Patient comprehension of breast pathology report terminology: The need for patient-centered resources. Surgery. 2022 Sep;172(3):831-837. PubMed PMID: 35715235 **[14 citations]** <https://pubmed.ncbi.nlm.nih.gov/35715235/>
28. Yang JH, Huynh V, Leonard LD, Kovar A, Bronsert M, Ludwigson A, **Wolverton D**, Hampanda K, Christian N, Kim SP, Ahrendt G, Mathes DW, Tevis SE. Are Diagnostic Delays Associated with Distress in Breast Cancer Patients? Breast Care (Basel). 2023 Aug;18(4):240-248. PubMed PMID: 37900555 **[2 citation]** <https://pubmed.ncbi.nlm.nih.gov/37900555/>
29. Bevers TB, Niell BL, Baker JL, Bennett DL, Bonaccio E, Camp MS, Chikarmane S, Conant EF, Eghtedari M, Flanagan MR, Hawley J, Helvie M, Hodgkiss L, Hoyt TL, Ivanovich J, Jochelson MS, Kulkarni S, Lancaster RB, Mauer C, Maxwell J, Patel BK, Pearlman M, Philpotts L, Plecha D, Plichta JK, Shakeri S, Smith ML, Streibert CL, Strigel RM, Tumyan L, Winkler NS, **Wolverton DE**, Bergman MA, Kumar R, Stehman K. NCCN Guidelines® Insights: Breast Cancer Screening and Diagnosis, Version 1.2023. J Natl Compr Canc Netw. 2023 Sep;21(9):900-909. PubMed PMID: 37673117 **[83 citations]** <https://pubmed.ncbi.nlm.nih.gov/37673117/>
30. Onishi N, Bareng TJ, Gibbs J, Li W, Price ER, Joe BN, Kornak J, Esserman LJ, Newitt DC, Hylton NM; I-SPY 2 Imaging Working Group; I-SPY 2 Investigator Network (**Wolverton D** is a participant in both groups). Effect of Longitudinal Variation in Tumor Volume Estimation for MRI-guided Personalization of Breast Cancer Neoadjuvant Treatment. Radiol Imaging Cancer. 2023 Jul;5(4):e220126. doi: 10.1148/rycan.220126. PMID: 37505107; PMCID: PMC10413289. <https://pubmed.ncbi.nlm.nih.gov/37505107/>
31. O'Brien E, Vemuru S, Leonard L, Himelhoch B, Adams M, Taft N, Jaiswal K, Sams S, Cumbler E, **Wolverton D**, Ahrendt G, Yi J, Lin CT, Miles R, Hampanda K, Tevis S. Information transparency with immediate release: Oncology clinician and patient perceptions. Am J Surg. 2024 Jan; 227:165-174. doi: 10.1016/j.amjsurg.2023.10.015. Epub 2023 Oct 5. PMID: 37863801 **[7 citations]**<https://pubmed.ncbi.nlm.nih.gov/37863801/>
32. O'Brien E, Ludwigson A, Vemuru S, Higgins M, Hampanda K, Adams M, **Wolverton D**, Sams S, Taft N, Miles R, Lin CT, Cumbler E, Tevis S. Interpretation of immediately released health information: Informing patient medical education in breast oncology. Am J Surg. 2025 Jan; 239:115853. doi: 10.1016/j.amjsurg.2024.115853. Epub 2024 Jul 18. PMID: 39095250; PMCID: PMC11649473. **[3 citations]** [<https://pubmed.ncbi.nlm.nih.gov/39095250/>
33. Foy B, Ludwigson A, Mott NM, Adams M, Higgins MG, Vemuru S, **Wolverton D**, Yi J, Sams S, Lin CT, Miles R, Taft N, Baurle E, Cumbler E, Tevis S. Helping patients navigate the immediate release of medical records: MedEd, a novel patient engagement technology. Am J Surg. 2025 Jan; 239:115977. doi: 10.1016/j.amjsurg.2024.115977. Epub 2024 Sep 18. PMID: 39322528. **[1 citation]** <https://pubmed.ncbi.nlm.nih.gov/39322528/>
34. Chung HL, Moseley TW, **Wolverton DE**, Whitman GJ: Mitigating overtreatment of ductal carcinoma in situ, Radiology Advances, 2025, umaf007 (in press) <https://doi.org/10.1093/radadv/umaf007>

**Book Chapters and Proceedings**

1. Giger ML, Lu P, Huo Z, Bick U, Vyborny CJ, Schmidt RA, Zhang W, Metz CE, **Wolverton DE**, Nishikawa RM, Zouras W, Doi K: CAD in digital mammography: computerized detection and classification of masses. In: Digital Mammography (A Gale, S Astley, D Dance, A Cairns, eds.), Proc of 2nd International Workshop on Digital Mammography, York, UK, (Elsevier Science, Amsterdam), 1994, pp. 281-287.
2. Nishikawa RM, Jiang Y, Giger ML, Doi K, Schmidt RA, Vyborny CJ, Zhang W, Ema T, Papaioannou J, **Wolverton DE**, Bick U, Nagel R, Mao Y: Performance of automated CAD schemes for the detection and classification of clustered microcalcifications. In: Digital Mammography (A Gale, S Astley, D Dance, A Cairns, eds.), Proc of 2nd International Workshop on Digital Mammography, York, UK, (Elsevier Science, Amsterdam), 1994, pp. 13-20.
3. Jiang Y, Nishikawa RM, **Wolverton DE**, Metz CE, Giger ML, Doi K, Schmidt RA, Vyborny CJ: Mammographic feature analysis of clustered microcalcifications for classification of breast cancer and benign breast diseases. Proc. IEEE Engineering in Medicine and Biology Society 16:594-595, 1994. **[9 citations]**
4. Doi K, Nishikawa RM, Giger ML, Haldemann RC, Schmidt RA, **Wolverton DE**, MacMahon H: Computer-aided diagnosis: Early clinical experience with intelligent workstation. Proc CAR -- Computer Assisted Radiology (Lemke HU, Inamura K, Jaffe CC, Vannier MW, eds.) pp. 345-351, 1995.
5. Nishikawa RM, Haldemann RC, Papaioannou J, Giger ML, Lu P Schmidt RA, **Wolverton DE**, Bick U, Doi K: Initial experience with a prototype clinical “intelligent” mammography workstation for computer-aided diagnosis. Proc SPIE 2434:65-71, 1995. **[41 citations]**
6. Schmidt RA, **Wolverton DE**, Vyborny CJ: Computer-aided diagnosis in mammography. In: RSNA Categorical Course in Breast Imaging 1995 (D Kopans, E Mendelson, eds.), Oak Brook, IL: RSNA Publications, 1995, pp. 199-208. **[21 citations]**
7. Nishikawa RM, Schmidt RA, Papaioannou J, Osnis JB, Haldemann Heusler RA, Giger ML, **Wolverton DE**, Comstock CE, Doi K: Performance of a prototype clinical “intelligent” mammography workstation. In: Digital Mammography ‘96 (K Doi, M Giger, R Nishikawa, R Schmidt, eds.), Proc of 3rd International Workshop on Digital Mammography, Chicago, USA, (Elsevier Science, Amsterdam), 1996, pp. 93-96. **[19 citations]**
8. Bick U, Giger ML, Schmidt RA, Nishikawa RM, **Wolverton DE**, Doi K: Computer-aided breast cancer detection in screening mammography. In: Digital Mammography ‘96 (K Doi, M Giger, R Nishikawa, R Schmidt, eds.), Proc of 3rd International Workshop on Digital Mammography, Chicago, USA, (Elsevier Science, Amsterdam), 1996, pp. 97-104. **[19 citations]**
9. Huo Z, Giger ML, Olopade OI, **Wolverton DE**, Weber B, Zhong W, Tahoces PG, Narvid SI, Baker T, Cummings S, Doi K: Computer-aided diagnosis: Breast cancer risk assessment from mammographic parenchymal patterns in digitized mammograms. In: Digital Mammography ‘96 (K Doi, M Giger, R Nishikawa, R Schmidt, eds.), Proc of 3rd International Workshop on Digital Mammography, Chicago, USA, (Elsevier Science, Amsterdam), 1996, pp. 191-194.
10. Huo Z, Giger ML, Vyborny CJ, **Wolverton DE**, Schmidt RA, Doi K: Computer-aided diagnosis: Automated classification of mammographic mass lesions. In: Digital Mammography ‘96 (K Doi, M Giger, R Nishikawa, R Schmidt, eds.), Proc of 3rd International Workshop on Digital Mammography, Chicago, USA, (Elsevier Science, Amsterdam), 1996, pp. 207-211. **[13 citations]**
11. Jiang Y, Nishikawa RM, Metz CE, **Wolverton DE**, Schmidt RA, Papaioannou J, Doi K: A computer-aided diagnosis scheme for classification of malignant and benign clustered microcalcifications in mammograms. In: Digital Mammography ‘96 (K Doi, M Giger, R Nishikawa, R Schmidt, eds.), Proc of 3rd International Workshop on Digital Mammography, Chicago, USA, (Elsevier Science, Amsterdam), 1996, pp. 219-224. **[5 citations]**
12. Zouras WK, Giger ML, Lu P, **Wolverton DE**, Vyborny CJ, Doi K: Investigation of a temporal subtraction scheme for computerized detection of breast masses in mammograms. In: Digital Mammography ‘96 (K Doi, M Giger, R Nishikawa, R Schmidt, eds.), Proc of 3rd International Workshop on Digital Mammography, Chicago, USA, (Elsevier Science, Amsterdam), 1996, pp. 411-416. **[25 citations]**
13. Nishikawa RM, Johnston RE, **Wolverton DE**, Schmidt RA, Pisano ED, Hemminger BM, Moody J: A common database of mammograms for research in digital mammography. In: Digital Mammography ‘96 (K Doi, M Giger, R Nishikawa, R Schmidt, eds.), Proc of 3rd International Workshop on Digital Mammography, Chicago, USA, (Elsevier Science, Amsterdam), 1996, pp. 435-440. **[10 citations]**
14. Nishikawa RM, **Wolverton DE**, Schmidt RA, Papaioannou J: Radiologists’ ability to discriminate computer-detected true and false positives from an automated scheme for the detection of clustered microcalcifications on digital mammograms. Proc. SPIE 3036:198-204, 1997. **[13 citations]**
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**Book Reviews**

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2 **Wolverton DE**: Review of “Breast MRI in Practice.” Edited by Ruth Warren and Alan Coulthard. London: Martin Dunitz, Ltd, 269 pp., 2002. AJR 181:138, 2003.

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**Editorials**

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**Scientific Presentations and Exhibits**

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2. **Wolverton DE**, Sickles EA, Ominsky SH, Sollitto RA, Galvin HB: Radiologist performance as a function of mammography screening experience. Presented at the 93rd annual meeting of the American Roentgen Ray Society, San Francisco, 4/25-30/1993.
3. **Wolverton DE,** Giger ML, Lu P, Bick U, Zhong W, Zhang W, Schmidt RA, Vyborny CJ, Metz CE, Doi K: Enhanced detection of subtle mammographic masses with computer-aided detection techniques. Presented at the 80th Radiologic Society of North America Assembly and Annual Meeting, Chicago, 11/27-12/2/1994.
4. **Wolverton DE**, Schmidt RA: Weight loss and its effect on the mammographic image (exhibit). Presented at the 83rd Radiologic Society of North America Assembly and Annual Meeting, Chicago, 11/30-12/5/1997.
5. **Wolverton DE**: Effect of computer-aided diagnosis on radiologist performance: Database development and work in progress. 46th annual meeting of the Association of University Radiologists, New Orleans, 3/25-29/1998.
6. Colvin A, Wong T, **Wolverton D** (senior author)**:** Keeping abreast of the latest mammography guidelines: What radiologists should know (educational exhibit). 103rd Radiologic Society of North America Assembly and Annual Meeting, Chicago, 11/26-12/1/2017. [archive.rsna.org/2017/17015804.html](http://archive.rsna.org/2017/17015804.html)
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124th American Roentgen Ray Society Annual Meeting, Boston, MA, 05/2024
8. Chung HL, Moseley TW, Whitman GJ, Patel MM, Guirguis MS, **Wolverton DE**: Ductal
Carcinoma In Situ: Beyond First Impression. 109th Radiological Society of North
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9. Chung HL, Lee S, Pollack E, **Wolverton DE** (senior author):Case Series of Idiopathic Granulomatous Mastitis (educational exhibit. Society of Breast Imaging Annual symposium, Montreal, Canada. 04/2024.

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