Stanford

Wendy DeMartini

Professor of Radiology (Breast Imaging)

CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Dr. Wendy DeMartini is a Professor in the Department of Radiology at Stanford University School of Medicine. She currently serves as the Associate Chair for Clinical Faculty Affairs in the Department of Radiology, and is the past Division Chief of Breast Imaging. Her work is focused upon high quality patient care, clinical research and education.

Dr. DeMartini completed her fellowship in Breast Imaging at the University of Washington School of Medicine in Seattle, Washington. She then served as Breast Imaging faculty at the University of Washington where she became Associate Professor and Associate Director of Clinical Services, and at the University of Wisconsin where she became Professor and Chief of Breast Imaging.

Dr. DeMartini has more than 100 research presentations, abstracts/publications, review articles or book chapters. Her research is directed toward the appropriate evidence-based use of imaging tests to optimize the detection and evaluation of breast cancer. She has served as an investigator on several studies of breast MRI funded by the National Cancer Institute and by the American College of Radiology Imaging Network (ACRIN). Particular research topics have included the development of a pilot tool for predicting the probability of malignancy of breast MRI lesions, assessment of the impact of background parenchymal enhancement (BPE) on breast MRI accuracy, and evaluation of utilization patterns of breast MRI and other emerging technologies.# She also served as the Editor-in-Chief of the Journal of Breast Imaging from 2023 to 2024.

Dr. DeMartini is a highly sought-after educator. She lectures on a broad spectrum of breast imaging topics nationally and internationally, including in the Americas, Europe, Australasia and Africa. She is the past Co-Director of the American College of Radiology (ACR) Education Center Breast MRI with Biopsy Course. Dr. DeMartini is an active member of many professional organizations and committees, including in the Radiologic Society of North America, the American College of Radiology and the Society of Breast Imaging (SBI). She was elected as an SBI Fellow in 2009 and served as President of the SBI in 2017-2018.

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Radiology
- Member, Stanford Cancer Institute

Research & Scholarship

CLINICAL TRIALS

- Pilot Breast-Dedicated PET Camera with 1 Millimeter Spatial Resolution, Not Specified

Publications

PUBLICATIONS

- **Diagnostic Axillary US: How Indication and Breast Cancer Status Impact Diagnostic Outcomes.** *Journal of breast imaging*
  Yan, H. Z., Liang, T., DeMartini, W. B., Pittman, S. M., Dashevsky, B. Z., Rosen, E. L., Ikeda, D. M., Waheed, U., Lipson, J. A., Poplack, S. P.
  2026
- **A 20-feature radiomic signature of triple-negative breast cancer identifies patients at high risk of death.** *NPJ breast cancer*
  Noor, H., Zheng, Y., Mantz, A. B., Zhou, R., Kozlov, A., DeMartini, W. B., Chen, S. T., Okamoto, S., Ikeda, D. M., Telli, M. L., Kurian, A. W., Ford, J. M., Vinayak, et al
  2025; 11 (1): 79
- **Engaging Multidisciplinary Teams to Develop Pragmatic Clinical Practice Guidelines to Support Management of Patients With High-Risk Breast Lesions.** *Clinical breast cancer*
  Neuman, H. B., Wilke, L. G., Bozzuto, L. M., Stelle, L., Melnick, D., Elezaby, M., Woods, R. W., Chase, P., McGregor, S., Harter, J., Weissman, P., Greenberg, C. C., Burnside, et al
  2024
- **Estrogen Receptor-targeted PET Imaging for Breast Cancer.** *Radiology*
  Zhou, W., Franc, B. L., DeMartini, W. B., Rosen, E. L.
  2024; 312 (2): e240315
- **Breast Implant Imaging: What Is Your Practice?** *Journal of breast imaging*
  DeMartini, W. B.
  2024; 6 (3): 229-231
- **Promoting and Improving Breast Imaging Patient Care and Outcomes.** *Journal of breast imaging*
  DeMartini, W. B.
  2024; 6 (2): 113-115
- **The Postoperative Breast: Imaging Findings and Diagnostic Pitfalls After Breast-Conserving Surgery and Oncoplastic Breast Surgery.** *Journal of breast imaging*
  Pittman, S. M., Rosen, E. L., DeMartini, W. B., Nguyen, D. H., Poplack, S. P., Ikeda, D. M.
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- **New Year, New Paradigms.** *Journal of breast imaging*
  DeMartini, W. B.
  2024; 6 (1): 1-3
- **Sustaining Mammography Image Quality With a Technologist Coaching Program in the Era of the Enhancing Quality Using the Inspection Program (EQUIP).** *Journal of breast imaging*
  Kozlov, A., Larson, D., DeMartini, W. B., Pal, S., Cowart, P., Strain, A., Ikeda, D. M.
  2023; 5 (6): 675-684
- **Calcifications, Cryoablation, and Much More.** *Journal of breast imaging*
  DeMartini, W. B.
  2023; 5 (6): 633-634

- **Sustaining Mammography Image Quality With a Technologist Coaching Program in the Era of the Enhancing Quality Using the Inspection Program (EQUIP)** *JOURNAL OF BREAST IMAGING*
  Kozlov, A., Larson, D., Demartini, W. B., Pal, S., Cowart, P., Strain, A., Ikeda, D. M.
  2023
- **From Patient Care to Career Care.** *Journal of breast imaging*
  DeMartini, W. B.
  2023; 5 (5): 505-507
- **From Patient Care to Career Care** *JOURNAL OF BREAST IMAGING*
  Demartini, W. B.
  2023
- **Foundations to Future** *JOURNAL OF BREAST IMAGING*
  DeMartini, W. B.
  2023; 5 (4): 381-382
- **Foundations to Future.** *Journal of breast imaging*
  DeMartini, W. B.
  2023; 5 (4): 381-382
- **Radiologists staunchly support patient safety and autonomy, in opposition to the SCOTUS decision to overturn Roe v Wade.** *Clinical imaging*
  Karandikar, A., Solberg, A., Fung, A., Lee, A. Y., Farooq, A., Taylor, A. C., Oliveira, A., Narayan, A., Senter, A., Majid, A., Tong, A., McGrath, A. L., Malik, et al
  2022
- **Tumor volume doubling time estimated from digital breast tomosynthesis mammograms distinguishes invasive breast cancers from benign lesions.** *European radiology*
  Sadeghipour, N., Tseng, J., Anderson, K., Ayalasomayajula, S., Kozlov, A., Ikeda, D., DeMartini, W., Hori, S. S.
  2022
- **Frequency and Outcomes of Ipsilateral Axillary Lymphadenopathy After COVID-19 Vaccination.** *JAMA network open*
  Zhou, W., DeMartini, W. B., Ikeda, D. M.
  2022; 5 (6): e2216172
- **Radiomic features quantifying pixel-level characteristics of breast tumors from magnetic resonance imaging predict risk factors in triple-negative breast cancer.**
  Mantz, A. B., Zhou, R., Kozlov, A., DeMartini, W., Chen, S., Okamoto, S., Ikeda, D. M., Mattonen, S. A., Napel, S., Alkim, E., Sledge, G. W., Kurian, A. W., Liu, et al
  LIPPINCOTT WILLIAMS & WILKINS.2022
- **Harnessing artificial intelligence to automate delineation of volumetric breast cancers from magnetic resonance imaging to improve tumor characterization.**
  Zhou, R., Kozlov, A., Chen, S., Okamoto, S., Ikeda, D. M., DeMartini, W., Kurian, A. W., Sledge, G. W., Telli, M. L., Lee, K., Mantz, A. B., Itakura, H.
  LIPPINCOTT WILLIAMS & WILKINS.2022
- **Influence of Imaging Features and Technique on US-guided Tattoo Ink Marking of Axillary Lymph Nodes Removed at Sentinel Lymph Node Biopsy in Women With Breast Cancer.** *Journal of breast imaging*
  Pajcini, M., Wapnir, I., Tsai, J., Edquilang, J., DeMartini, W., Ikeda, D.
  2021; 3 (5): 583-590
- **Influence of Imaging Features and Technique on US-guided Tattoo Ink Marking of Axillary Lymph Nodes Removed at Sentinel Lymph Node Biopsy in Women With Breast Cancer** *JOURNAL OF BREAST IMAGING*
  Pajcini, M., Wapnir, I., Tsai, J., Edquilang, J., DeMartini, W., Ikeda, D.
  2021; 3 (5): 583-590
- **FDG Avid Abnormalities in the Breast: Breast Cancer Mimics** *CURRENT RADIOLOGY REPORTS*
  Faast, A., Ikeda, D. M., Pittman, S., DeMartini, W., Kozlov, A.
  2021; 9 (8)

- **Factors Affecting Image Quality and Lesion Evaluability in Breast Diffusion-weighted MRI: Observations from the ECOG-ACRIN Cancer Research Group Multisite Trial (A6702).** *Journal of breast imaging*
  Whisenant, J. G., Romanoff, J., Rahbar, H., Kitsch, A. E., Harvey, S. M., Moy, L., DeMartini, W. B., Dogan, B. E., Yang, W. T., Wang, L. C., Joe, B. N., Wilmes, L. J., Hylton, et al
  2021; 3 (1): 44–56
- **Mean Apparent Diffusion Coefficient Is a Sufficient Conventional Diffusion-weighted MRI Metric to Improve Breast MRI Diagnostic Performance: Results from the ECOG-ACRIN Cancer Research Group A6702 Diffusion Imaging Trial.** *Radiology*
  McDonald, E. S., Romanoff, J., Rahbar, H., Kitsch, A. E., Harvey, S. M., Whisenant, J. G., Yankeelov, T. E., Moy, L., DeMartini, W. B., Dogan, B. E., Yang, W. T., Wang, L. C., Joe, et al
  2020: 202465
- **Pure Fibrocystic Change Diagnosed at MRI-guided Vacuum-assisted Breast Biopsy: Imaging Features and Follow-up Outcomes.** *Journal of breast imaging*
  Chen, S. T., Okamoto, S., Daniel, B. L., Covelli, J., DeMartini, W. B., Ikeda, D. M.
  2020; 2 (2): 141-146
- **Pure Fibrocystic Change Diagnosed at MRI-guided Vacuum-assisted Breast Biopsy: Imaging Features and Follow-up Outcomes** *JOURNAL OF BREAST IMAGING*
  Chen, S., Okamoto, S., Daniel, B. L., Covelli, J., DeMartini, W. B., Ikeda, D. M.
  2020; 2 (2): 141–46
- **A randomized phase II study comparing surgical excision versus NeOadjuvant Radiotherapy followed by delayed surgical excision of Ductal carcinoma In Situ (NORDIS)**
  Wapnir, I., DeMartini, W., Allison, K., Stone, K., Dirbas, F., Marquez, C., Ikeda, D., Pal, S., Tsai, J., Yang, R., West, R., McMillan, A., Telli, et al
  AMER ASSOC CANCER RESEARCH.2020
- **Clumped vs non-clumped internal enhancement patterns in linear non-mass enhancement on breast MRI**
  Chen, S., Covelli, J., Okamoto, S., Daniel, B., DeMartini, W., Ikeda, D.
  AMER ASSOC CANCER RESEARCH.2020
- **Clumped vs non-clumped internal enhancement patterns in linear non-mass enhancement on breast MRI.** *The British journal of radiology*
  Chen, S. T., Covelli, J. n., Okamoto, S. n., Daniel, B. L., DeMartini, W. B., Ikeda, D. M.
  2020: 20201166
- **Utility of Diffusion-weighted Imaging to Decrease Unnecessary Biopsies Prompted by Breast MRI: A Trial of the ECOG-ACRIN Cancer Research Group (A6702)** *CLINICAL CANCER RESEARCH*
  Rahbar, H., Zhang, Z., Chenevert, T. L., Romanoff, J., Kitsch, A. E., Hanna, L. G., Harvey, S. M., Moy, L., DeMartini, W. B., Dogan, B., Yang, W. T., Wang, L. C., Joe, et al
  2019; 25 (6): 1756–65
- **Utility of Diffusion Weighted Imaging to Decrease Unnecessary Biopsies Prompted by Breast MRI: A Trial of the ECOG-ACRIN Cancer Research Group (A6702).** *Clinical cancer research : an official journal of the American Association for Cancer Research*
  Rahbar, H., Zhang, Z., Chenevert, T. L., Romanoff, J., Kitsch, A., Hanna, L. G., Harvey, S. M., Moy, L., DeMartini, W. B., Dogan, B. E., Yang, W., Wang, L., Joe, et al
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- **Influence of Menstrual Cycle Timing on Screening Breast MRI Background Parenchymal Enhancement and Diagnostic Performance in Premenopausal Women.** *Journal of breast imaging*
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  2019; 1 (3): 205–11
- **High-risk lesions diagnosed at MRI-guided vacuum-assisted breast biopsy: imaging characteristics, outcome of surgical excision or imaging follow-up.** *Breast cancer (Tokyo, Japan)*
  Okamoto, S. n., Chen, S. T., Covelli, J. D., DeMartini, W. B., Daniel, B. L., Ikeda, D. M.
  2019
- **ACR BI-RADS Assessment Category 4 Subdivisions in Diagnostic Mammography: Utilization and Outcomes in the National Mammography Database** *RADIOLOGY*
  Elezaby, M., Li, G., Bhargavan-Chatfield, M., Burnside, E. S., DeMartini, W. B.
  2018; 287 (2): 416–22

- **Preoperative Breast Magnetic Resonance Imaging Use by Breast Density and Family History of Breast Cancer** *JOURNAL OF WOMENS HEALTH*

  Henderson, L. M., Hubbard, R. A., Zhu, W., Weiss, J., Wernli, K. J., Goodrich, M. E., Kerlikowske, K., DeMartini, W., Ozanne, E. M., Onega, T.

  2018

- **Relationship between preoperative breast MRI and surgical treatment of non-metastatic breast cancer** *JOURNAL OF SURGICAL ONCOLOGY*

  Onega, T., Weiss, J. E., Goodrich, M. E., Zhu, W., DeMartini, W. B., Kerlikowske, K., Ozanne, E., Tosteson, A. N. A., Henderson, L. M., Buist, D. S. M., Wernli, K. J., Herschorn, S. D., Hotaling, et al

  2017; 116 (8): 1008–15

- **Screening Breast MRI Outcomes in Routine Clinical Practice: Comparison to BI-RADS Benchmarks** *ACADEMIC RADIOLOGY*

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  2017; 24 (2): 411-417

- **Women's experiences and preferences regarding breast imaging after completing breast cancer treatment** *PATIENT PREFERENCE AND ADHERENCE*

  Brandzel, S., Rosenberg, D. E., Johnson, D., Bush, M., Kerlikowske, K., Onega, T., Henderson, L., Nekhlyudov, L., DeMartini, W., Wernli, K. J.

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