



## Amanda J. Wheeler

Clinical Associate Professor, Surgery - General Surgery

 NIH Biosketch available Online

### CLINICAL OFFICES

- **Stanford Womens Cancer Center**

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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### Bio

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#### BIO

Dr. Amanda J. Wheeler is a board certified surgeon who specializes in the surgical management of breast cancer.

She completed her general surgical residency at Stanford University. To further her career in the treatment of breast cancer she was awarded a Surgical Society of Oncology accredited fellowship in Breast Surgical Oncology at the Harvard affiliated hospitals; Dana Farber Cancer Institute, Brigham and Women's Hospital and Massachusetts General Hospital. She is actively involved in clinical research and serves on the Education Committee for the American Society of Breast Surgeons. Her main passion is improving the patient experience and patient decision making. Her published research includes; the impact of screening mammography on the morbidity and mortality of breast cancer, utilization of breast MRI, the link between obesity and breast cancer and risk factors among the African American population for breast cancer. She has also written multiple chapters in leading textbooks and collaborated with other nationally recognized experts at MD Anderson, Memorial Sloan Kettering, Stanford University and Harvard University.

She is the current surgical medical director for the Clinical Advice Service Line at Stanford Hospital and Clinics. She collaborates with the department of anesthesia and radiology to improve patient outcomes in breast surgery. She is currently working on decreasing post operative pain and immobility following breast surgery and using augmented reality intra operatively for tumor localization.

Dr. Wheeler previously was the Medical Director of the Meridian Park Legacy Breast Cancer Program and was in private practice in Portland, Oregon for five years before returning to Stanford. She enjoys playing golf, painting and yoga.

#### CLINICAL FOCUS

- Cancer > Breast Cancer
- General Surgery
- oncoplastic surgery
- hi risk breast cancer

- young women with breast cancer

## **ACADEMIC APPOINTMENTS**

- Clinical Associate Professor, Surgery - General Surgery

## **ADMINISTRATIVE APPOINTMENTS**

- President, Co-Founder, Stanford Surgical Alumni Association, (2014- present)
- Department of Surgery Representative, Clinical Educator Dean's Task Force, (2015-2016)
- Committee Member, Women's Cancer Center Breast Transformation Committee, (2016-2017)
- Committee Member, SCPSS Wellness Committee, (2016- present)
- Program Director, San Francisco Surgical Society, (2016-2017)
- Medical Director, Clinical Advice Services, Stanford Hospital and Clinics, (2016- present)
- Education Committee, American Society of Breast Surgeons, (2009- present)

## **HONORS AND AWARDS**

- Member, Order of Omega
- Member, Golden Key National Honor Society
- Member, Phi Beta Kappa

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Member, American Society of Breast Surgeons (2009 - present)
- Member, American Society of Breast Diseases (2009 - present)
- Member, American Society of Clinical Oncology (2009 - present)
- Member, American College of Surgeons (2008 - present)

## **PROFESSIONAL EDUCATION**

- Fellowship, Harvard Cancer Institute: MGH, BWH, Dana Farber Cancer Institute , Breast Surgical Oncology (2009)
- Board Certification: General Surgery, American Board of Surgery (2008)
- Residency: Stanford Hospital and Clinics - Dept of Surgery (2008) CA
- Internship: Maricopa Medical Center (2003) AZ
- Medical Education: Oregon Health Science University (2002) OR

## **COMMUNITY AND INTERNATIONAL WORK**

- Co-Chair, Stanford University

## **Research & Scholarship**

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### **CURRENT RESEARCH AND SCHOLARLY INTERESTS**

Dr. Wheeler actively participates in both clinical and basic science research in order to create opportunities for her patients to optimize their care and treatment of breast cancer. By focusing on patient centric research, she is able to offer cutting edge therapies for her breast cancer patients. She currently collaborates with several basic science labs, including Dr. Jeffrey who studies circulating tumor cells and the tumor microenvironment. Dr. Wheeler has also collaborated with Dr. Quake's lab looking at an early detection blood test for the diagnosis of breast cancer.

As a clinical educator, Dr. Wheeler is able to choose applicable studies for her patients that have the potential to impact future patients who are diagnosed with breast cancer. Past and current projects include a patient decision making study looking at motivating factors for patients who choose mastectomy vs breast conserving surgery. She also was a co-author on a study showing a novel intra operative warming device that led to a decrease in post-operative complications. She has collaborated with a psychologist to study a surgical success program with the goal of decreasing post-operative pain and disability.

Dr. Wheeler has also collaborated with her breast imaging colleagues to develop an augmented reality platform for tumor localization with the hopes of decreasing re-excision rates and performing an improved cosmetic outcome for breast cancer patients. She also participated in a study that tattooed sentinel lymph nodes in the pre chemotherapy setting in order to limit surgery in the axilla thereby decreasing lymphedema and pain associated with standard axillary lymph node dissections.

In addition to her clinical research, she is involved nationally in breast fellowship accreditation through the American Society of Breast Surgeons(ASBS). She serves on the Education board for ASBS and is invited to give talks nationally and internationally on her clinical interests and research. She has written several chapters and is a frequent peer review editor.

At Stanford Hospital and Clinics she is the surgical medical director of Clinical Advice Services (CAS). CAS is responsible for after hour patient related triage. She is the current co-chairwoman of professional development at a fraternal organization on the Stanford Campus. Mentorship of women at the college, and fellowship level continues to be a passion for her. She also enjoys yoga, painting, playing tennis and golf.

## Publications

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### PUBLICATIONS

- **A Review of Anatomy, Physiology, and Benign Pathology of the Nipple** *ANNALS OF SURGICAL ONCOLOGY*  
Stone, K., Wheeler, A.  
2015; 22 (10): 3236-3240
- **Performance and Practice Guideline for the Use of Neoadjuvant Systemic Therapy in the Management of Breast Cancer** *ANNALS OF SURGICAL ONCOLOGY*  
Holmes, D., Colfry, A., Czerniecki, B., Dickson-Witmer, D., Espinel, C. F., Feldman, E., Gallagher, K., Greenup, R., Herrmann, V., Kuerer, H., Malik, M., Manahan, E., O'Neill, et al  
2015; 22 (10): 3184-3190
- **Initial results with preoperative tattooing of biopsied axillary lymph nodes and correlation to sentinel lymph nodes in breast cancer patients.** *Annals of surgical oncology*  
Choy, N., Lipson, J., Porter, C., Ozawa, M., Kierny, A., Pal, S., Kao, J., Trinh, L., Wheeler, A., Ikeda, D., Jensen, K., Allison, K., Wapnir, et al  
2015; 22 (2): 377-382
- **Right Breast Mastectomy and Reconstruction with Tissue Expander under Thoracic Paravertebral Blocks in a 12-Week Parturient.** *Case reports in anesthesiology*  
Webb, C. A., Weyker, P. D., Cohn, S., Wheeler, A., Lee, J.  
2015; 2015: 842725-?
- **The diagnostic value of nipple discharge cytology: Breast imaging complements predictive value of nipple discharge cytology** *JOURNAL OF SURGICAL ONCOLOGY*  
Kalu, O. N., Chow, C., Wheeler, A., Kong, C., Wapnir, I.  
2012; 106 (4): 381-385
- **Metastases to the breast: Alveolar soft part sarcoma in adolescents** *CLINICAL BREAST CANCER*  
Madrigano, A., Beach, B., Wheeler, A., Wapnir, I.  
2008; 8 (1): 92-93

### PRESENTATIONS

- Mixed Reality MRI guided breast surgery: Proof of Concept. - World Molecular Imaging Congress (2016)

- Invited Discussant - Pacific Coast Surgical Association (February 2017)
- Augmented Reality Medicine - Coalition for Imaging and Biomedical Research (March 28, 2017)
- Invited Panel Member - 17th Multidisciplinary Management of Cancers. Norther California Tumor Board (3/17/2017)
- Mixed Reality Breast Surgery - Society of Surgical Oncology (3/16/2017)