

MARGIN PROBE[®]

Proven to reduce re-excisions in breast cancer

MarginProbe® Radiofrequency Spectroscopy System

Identifies, in real-time, positive margins by detecting **microscopic residual cancer and DCIS** at the surface of excised breast tissue, enabling **immediate action** by the surgeon, thereby **reducing** the need for re-excision surgery.

Did I get it all?

Current margin assessment methods cannot fully address need

Gross Assessment, Specimen X-Ray

- Cannot palpate/visualize microscopic invasive cancer nor DCIS
- Low sensitivity for ILC

Frozen Section

- Difficult due to fatty nature of breast tissue
- May add significant time to procedure

Full Cavity Shave

- Can compromise cosmetic outcomes due to volume of healthy tissue removed
- Thinner shaves to manage tissue volume can result in reduced success clearing final margins



Re-excision impacts everyone



Patients

- Increased financial burden
- Increased complications
- Delays adjuvant treatment
- Poor cosmesis



Providers

- Disappointment of telling patient "I didn't get it all"
- Decreased patient satisfaction
- Compromises IORT and oncoplastic procedures



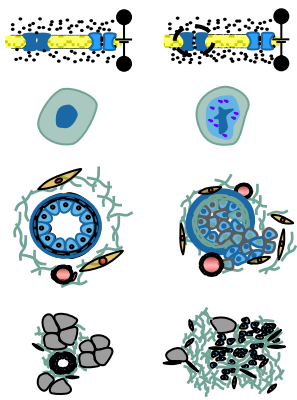
Payers

- Tremendous cost to healthcare system
- Average \$16k/procedure¹
- Not aligned with shift from volume to value

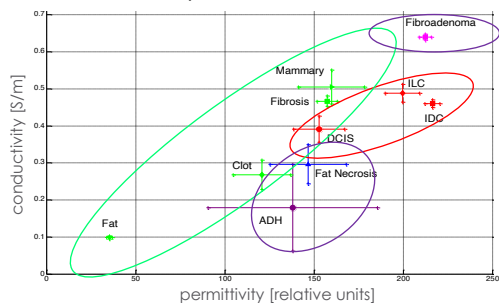
¹Metcalfe LN, Zysk AM, Yemul KS, et al. Beyond the Margins-Economic Costs and Complications Associated With Repeated Breast-Conserving Surgeries. JAMA Surg. 2017;152(11):1084-1086.

How does MarginProbe® work?

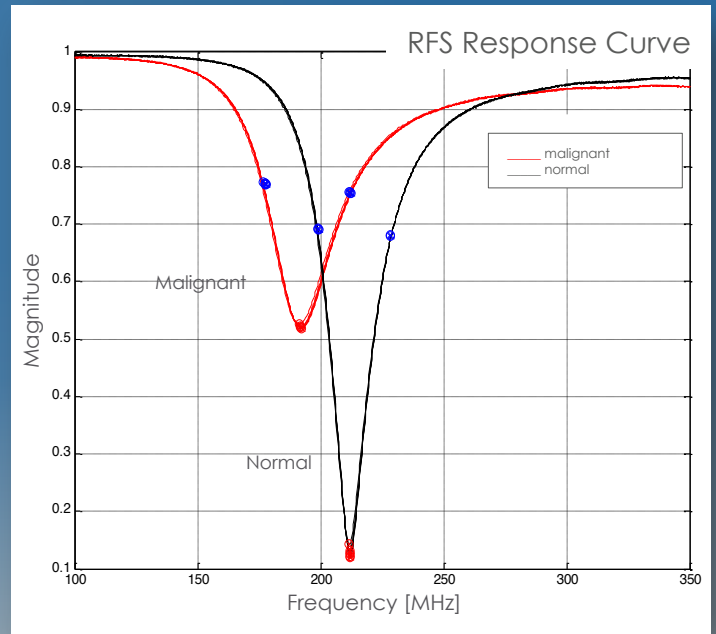
As tissue becomes malignant, its **cellular morphology** and **electrical behavior** change



Electrical Properties of Tissue¹



MarginProbe® measures and analyzes the **bioelectric signature** of tissue in order to classify it as **normal or malignant**



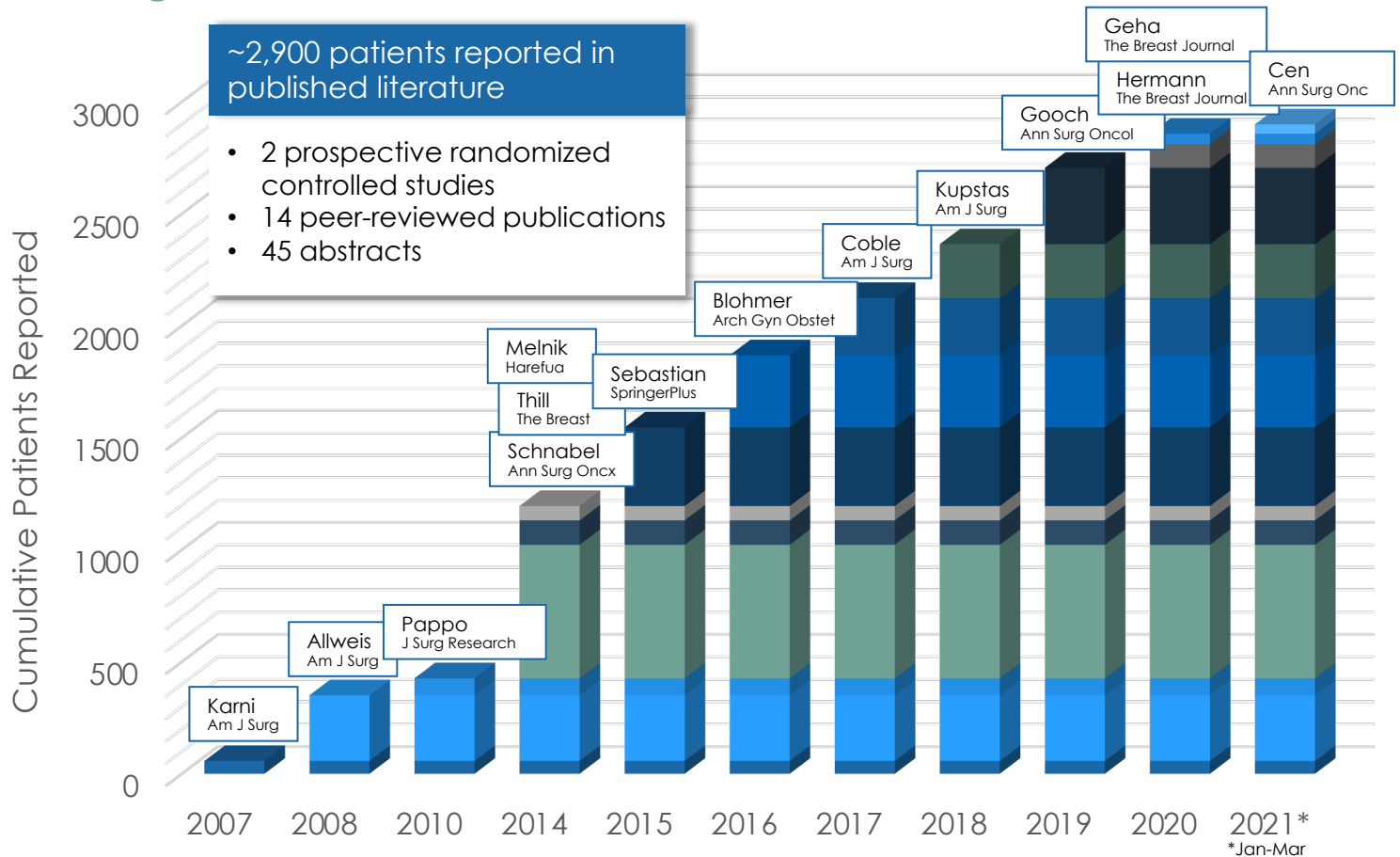
¹Kaufman et al. Mapping breast tissue types by miniature radio-frequency near-field spectroscopy sensor in ex-vivo freshly excised specimens. BMC Medical Imaging (2016), 16:57

Real-time assessment and binary results with no disruption to surgical workflow



Growing body of evidence

Proving substantial clinical effectiveness



MarginProbe®. Do it once. Get it all.

