## Access Surgery in the Breast Cancer Patient Vicki Teodorescu MD MBA RVT

Access Surgery in the Breast Cancer Patient

\* Nothing to disclose

Breast cancer patients are often advised to avoid even blood pressure measurements, phlebotomy and IV insertions on the ipsilateral arm to minimize the risk of lymphedema following surgery.

Dialysis access has the potential of aggravating this risk.

But as breast surgery has evolved away from radical procedures, this advice needs to be questioned as it limits potential access sites.

A large, long-term study of patients with invasive breast cancer reported cumulative BCRL rates of

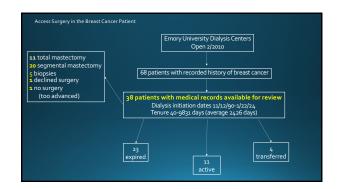
24.9% in axillary lymph node dissection (ALND) cohort

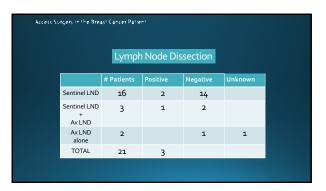
8% in the sentinel lymph node (SLND) alone cohort

Prospective surveillance and early treatment reduces the risk to 4% in ALND and near zero in SLND

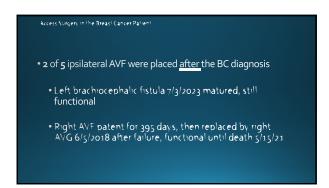
Donahue PMC. MacKenzie A. Filipovic A. Koelmeyer L. Advances in the prevention and treatment of breast cancer related lymphedema. Breast Cancer Res Treat. 2023. Jul. 2001, 11-14. doi: 10.1007/s10549-023-0647-7. Epub 2023 Apr 77. PMIO. 37105598; PMIO. PMI-10224877.

BRID St. Chromosof Laren A. Biological St. Propositio Sevelaces for Breast Cancer Resided An Implementary A. Spitemant. Forest and Mich. Journal 2018.





## Access Surgen in the Breast Cancer Patient Little data a variable about other treatment, including radiation, chemotherapy or breast reconstruction In the 38 patients, 22 were diagnosed with breast cancer prior to ESRD A total of 18 AVF, 26 AVG and 55 CVC were placed over the study period The side of access could only be determined in 20 patients 10 AVF (5 ipsilateral) 12 AVG (8 ipsilateral)

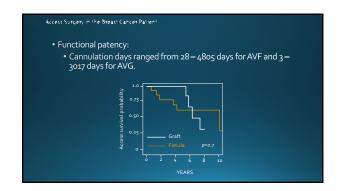


## Access Surgery in the Breast Cancer Patient IPSILATERAL AVG Right AVG Death 3853 Left AVG 160 Failed Left AVG Transfer 3 3309 2761 по no Left AVG 1 Replaced 2490 1905 yes Left AVG 2 Death no 5 730 Left AVG 1 231 Replaced yes Left AVG 2 Patent 198 281 Right AVG

Only one patient in this series had their access ligated for excessive edema.
Contralateral left AVG placed in a patient with known left subclavian port present for 20 years

One patient had contralateral left AVG ligated for steal which did not resolve with initial surgical correction

No other apparent access complications found, either ipsi- or contralateral



Access Surgery in the Breast Cancer Patient

Access currently used or in use at the time of death or transfer

9 AVF (23,7%)

14 AVG (36.8%)

15 CVC (39.5%), more than 2x the %CVC across our HD units

Over the study period, 30 patients used CVC

Catheter days ranged from 7-34.18 days (average 710)

Total catheter days: 21,292

12 (40%) required multiple exchanges

7 CVC patients never had AVF/AVG

Catheter days ranged from 59-34.18 days (avg 1301)

2 (28.5%) required multiple exchanges (CVC days 623 and 2693)

Conclusions:

We achieved long-term functional access in BC patients, even in the ipsilateral arm

Ipsilateral AVG more problematic than AVF

Although based on a small number of patients and limited data, breast cancer surgery is not an absolute contra-indication to dialysis access on the ipsilateral arm.

Conclusions:

This is the first study of access we performed based on dialysis unit data, supplemented by review of surgical records

Functional patency rates and catheter days may prove to be important

But data collection in the unit will need to be more robust and in collaboration with surgeons and interventionalists to obtain the best outcomes



