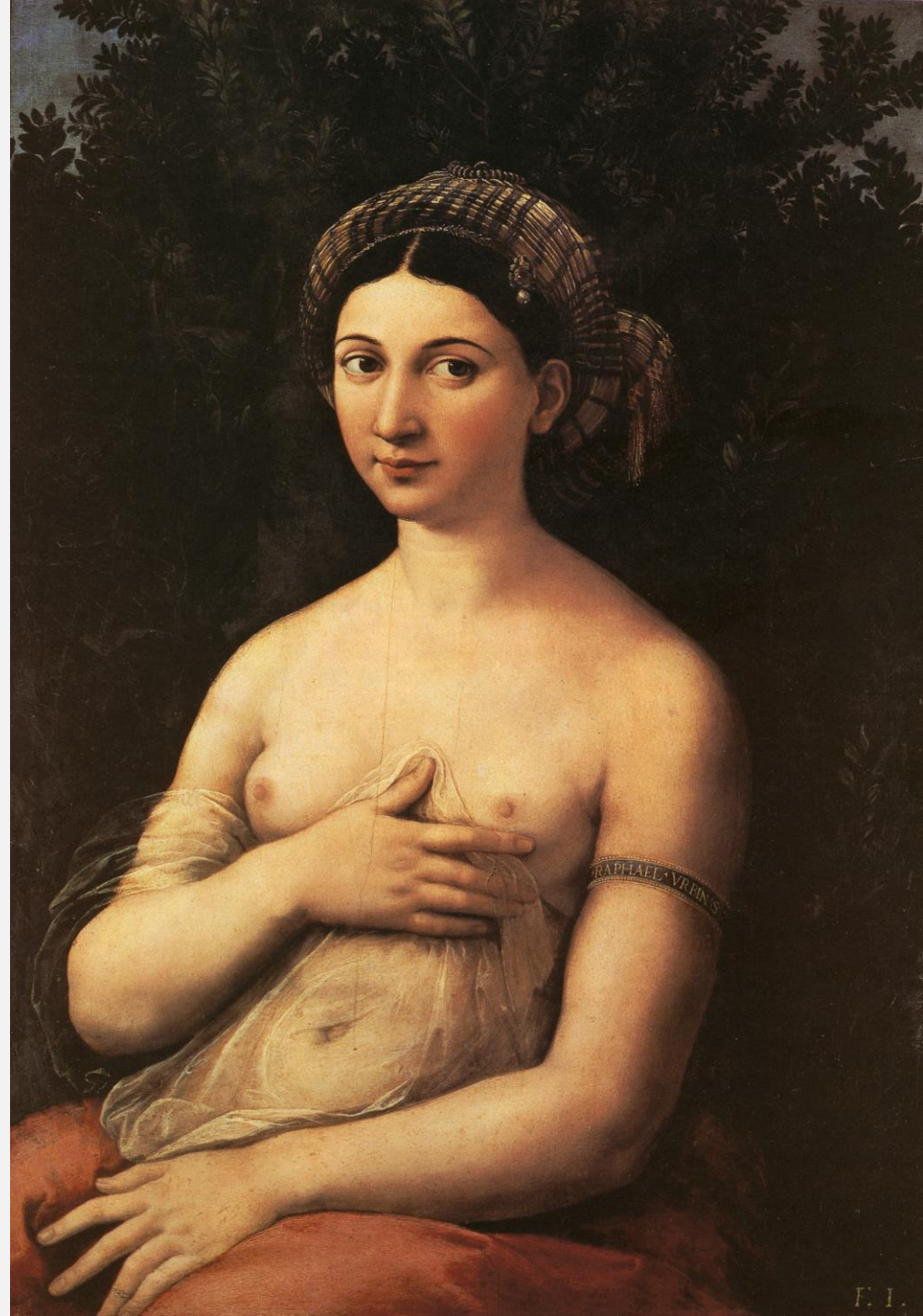


# What is New in Breast Surgery?

EUROPA DONNA  
Nordic, Helsinki

17.09.2022

Helena Puonti



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Breast cancer is the most common cancer in women worldwide.

The number of cases is increasing





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# Breast cancer survival rates in Finland are the best worldwide

Survival rates in 2017 (after national cancer registry)

-1 year 98 %

-5 year 92 %

-10 year 86 %



# Helena Puonti oncoplastic surgeon, PhD

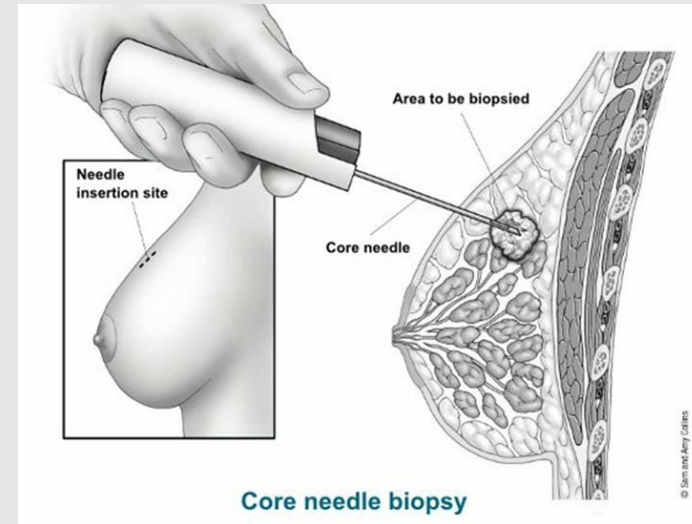
Total experience as a surgeon over **30 years**

Head doctor of Clinic Helena since 1999

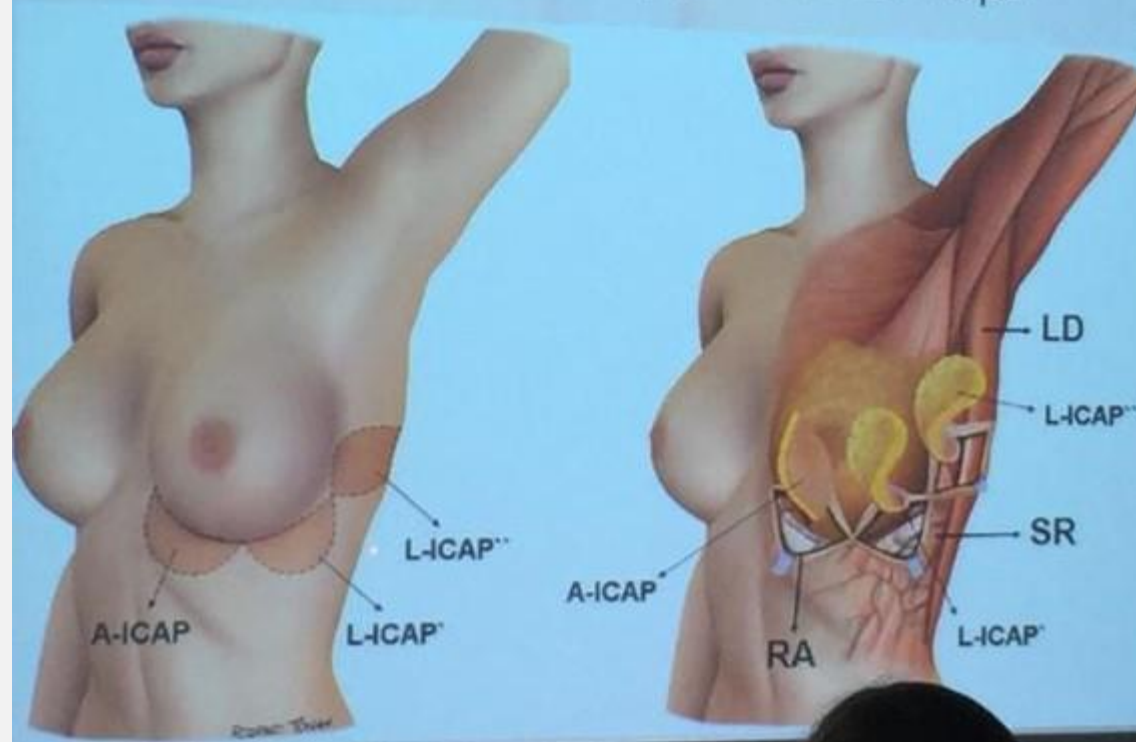
- PhD degree in 2017 for developing method of Sensing Breast reconstruction, Helsinki University
- Head plastic surgeon in Savonlinna Central Hospital, 1998-2015
- Specialist in plastic surgery, 1998
- Specialist in microsurgery since 1991
- Specialist in General surgeon, 1986, Tampere University Hospital



# Diagnosics of breast cancer



# ICAP - Intercostal artery perforator flaps



# What is new in breast surgery ?

Neoadjuvant chemotherapy, if axillary metastases

- in herseptin positive tumors
- in trippelnegative tumors
- in big tumors



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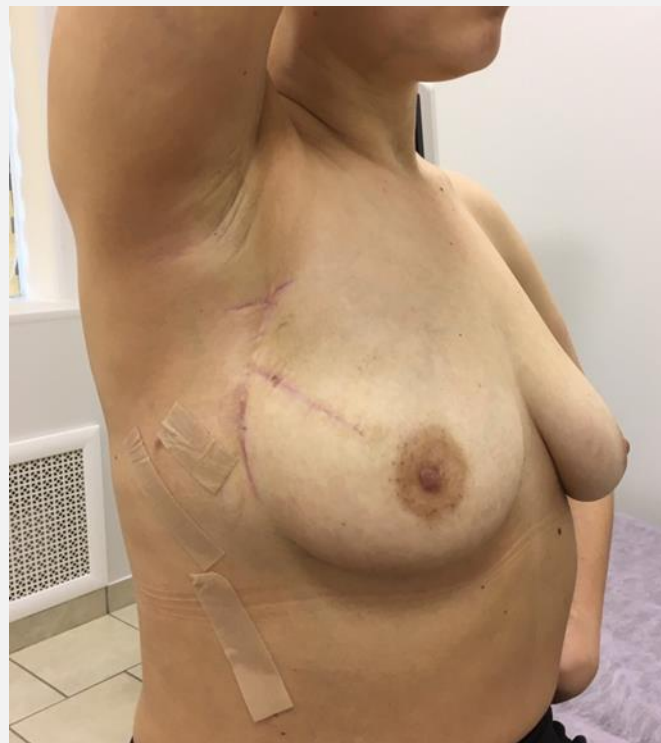


With oncoplastic surgical methods  
we can save the 75 % of women's breast

---



# Breast-saving surgery of right breast





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# Asymmetry correction by Reductioplasty technique



# Mastectomy is needed in 25 % of cases



-Mastectomy and lymphonodi evacuation in armpit causes for a woman psychological, physiological and social problems!

- By saving a breast, and lymphonodes in armpit when possible, we can restore the woman's quality of life!



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# Breast reconstruction after mastectomy

Careful planning -  
Choosing a right method

- Immediate
- Delayed



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# Breast reconstruction after mastectomy

## METHODS:

- Own tissue reconstructions:

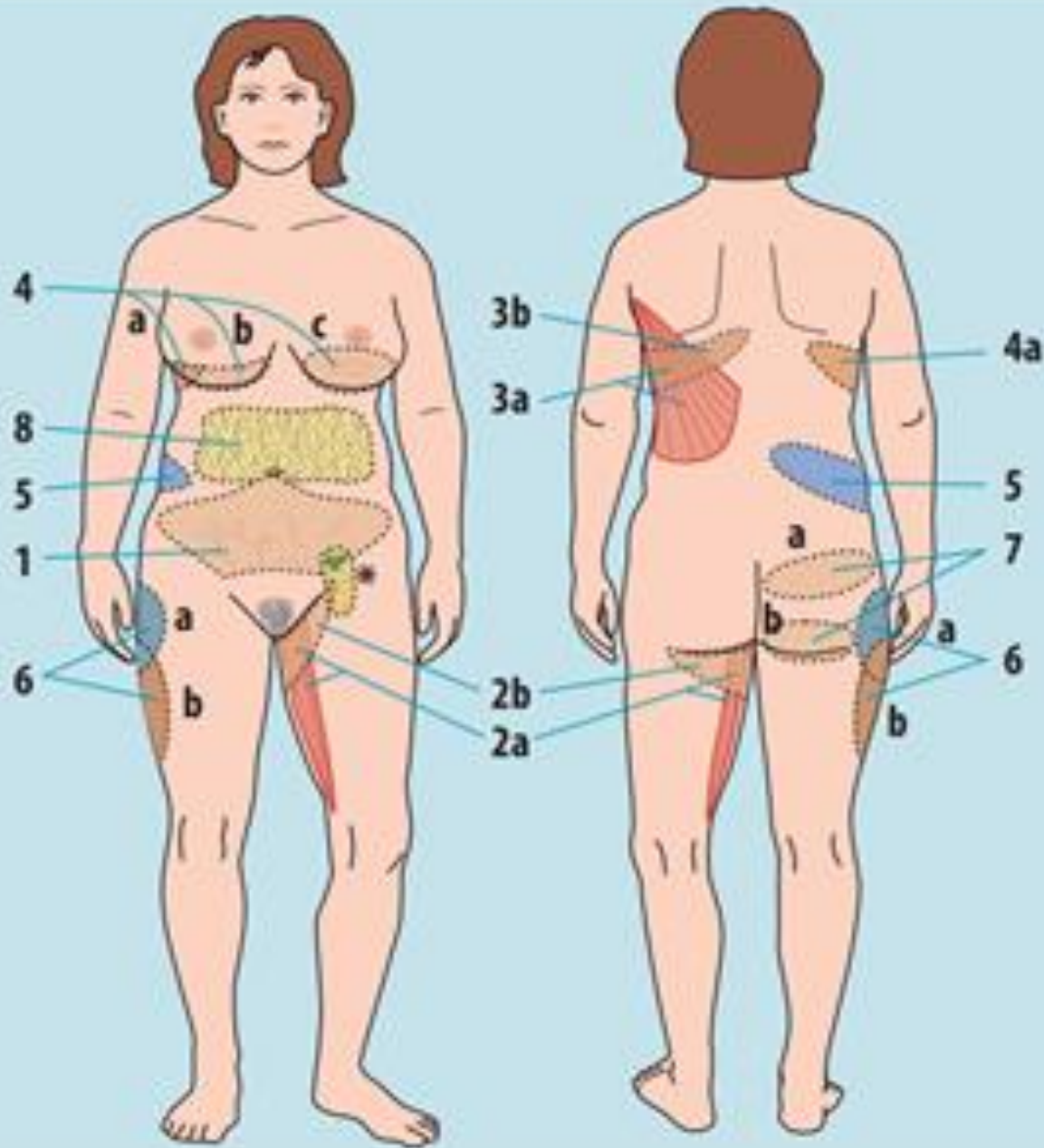
  - FREE FLAPS: Muscle-sparing TRAM, DIEP, gracilis, thigh, gluteus

  - PEDICLE FLAPS: Perforator flaps (TAP, PAP, LAP, LTP), LD, omental flap

- Implants with expander
- Mixed: both own tissue and implant
- Fat transplant

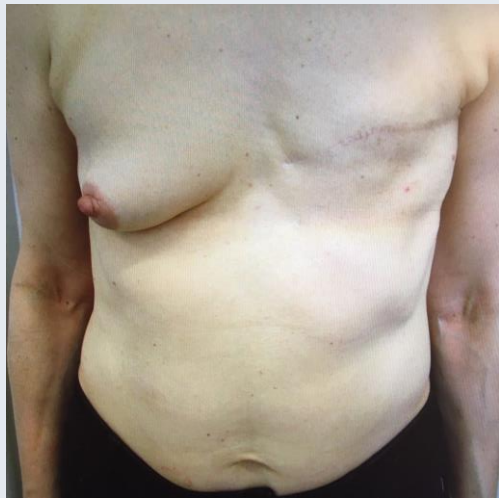


# METHODS FOR BREAST RECONSTRUCTIONS



1. Free ms-TRAM-, DIEP-, SIEA-flap
2. Free gracilis-flap
3. Pedicled TAP-, LD-flap
4. Local pedicled perforator-flaps
5. Free lumbar-flap
6. Free thigh-flap
7. Free gluteal flap
8. Pedicled omental flap

# LD- Method for Breast Reconstruction





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# Mikroneurovascular technique in breast reconstruction

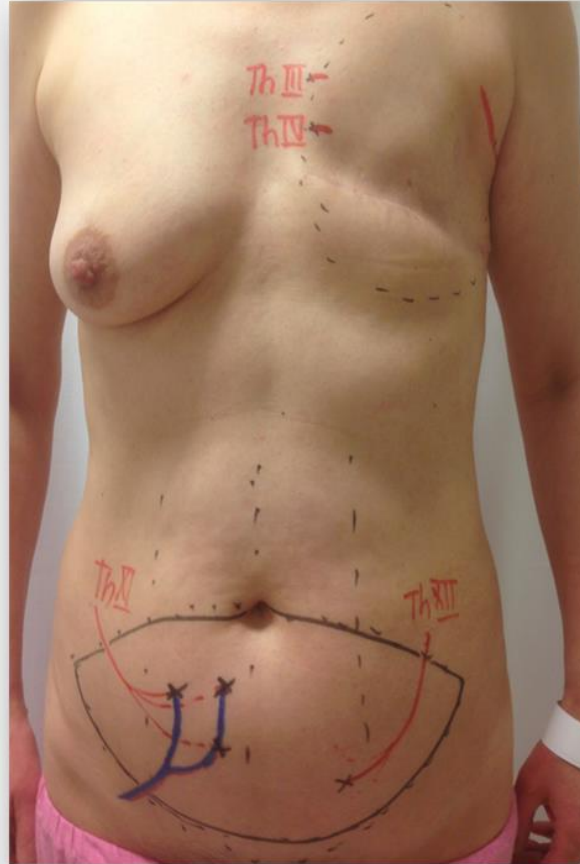




# Sensing breast Delayed reconstruction



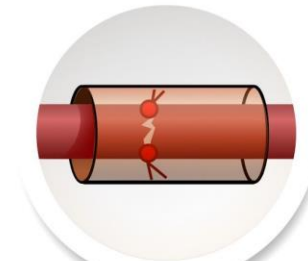
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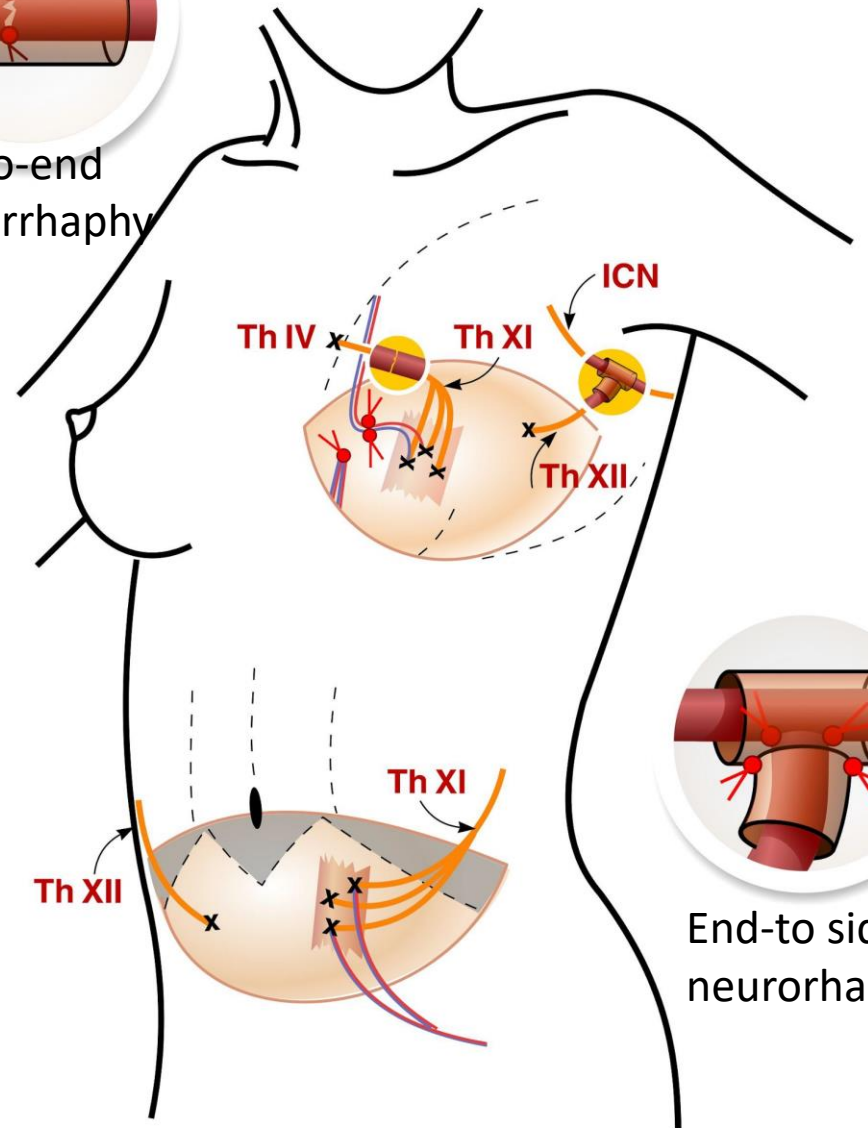
# Dual neurotomy for muscle-sparing TRAM-breast



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End-to-end  
neurotomy



End-to side  
neurotomy

# Sensing Breast, immediate reconstruction (left)



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# Breast reconstruction

WITH AN IMPLANT



AND ACELLULAR MATRIX



# Problems with implants:

Two-stage reconstruction first with expander and then implant change,  
30 % reoperations because of complications, more expensive!

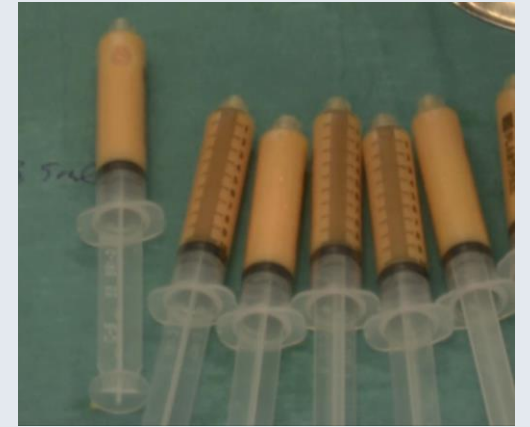
- Capsulae contracture 4 - 15 % (Barnsley P.G. et al. 2006)
- They cannot be shaped and molded
- Infection rate 7.41 (Brett T. et al, 2014, 5000 women study)
- Aggressive large cell lymphoma (ALCL )





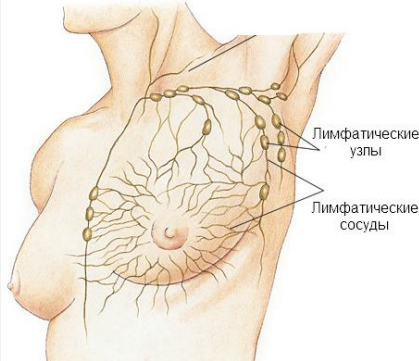
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# Fat Transplantation



# Sentinel node procedure for saving lymphonodes in axillae

## Radioisotope marking with Technetium C 99



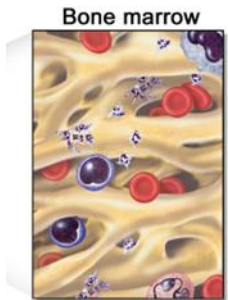
# What is new in breast surgery ?

More lymphonodi saving procedure  
In Axillary Sentinel node

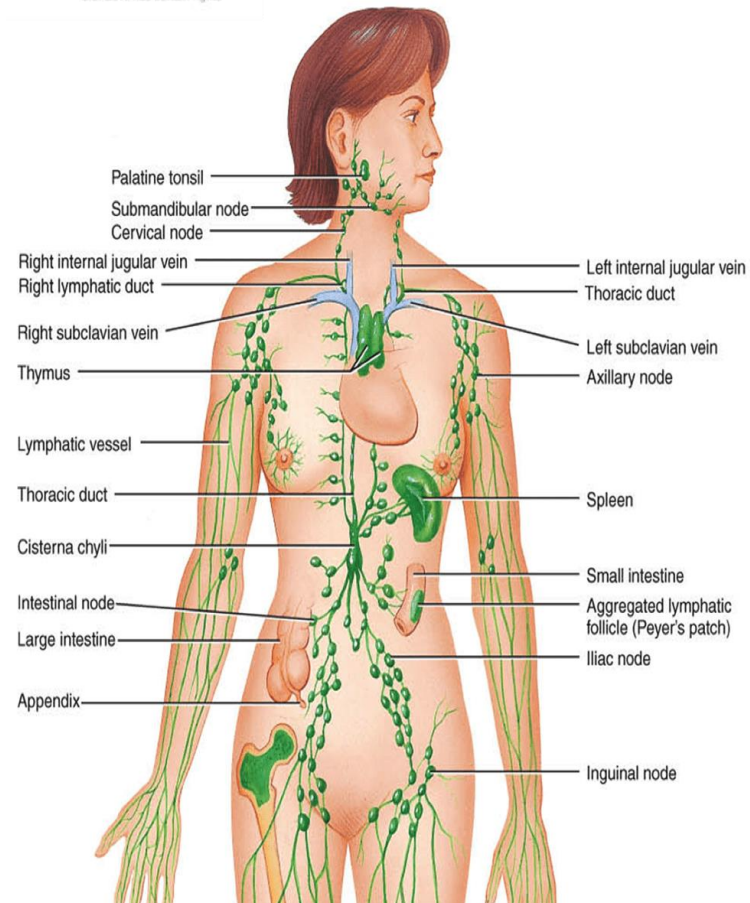
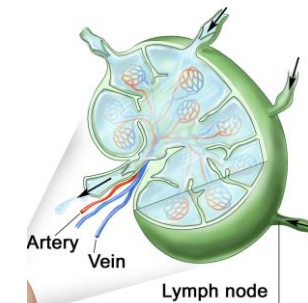
Axillary evacuation is needed only, if there are more than three sentinel nodes involved with cancer cells.



# Active treatment of Lymphastases



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-LIPOSUCTION

-LYMPHAVENOUS  
FISTULAE

-FREE LYMPHONODII  
TRANSPLANTATION



# REHABILITATION

## Specialized Rehabilitation Program for the Patients during and after Breast Cancer Treatment

- Physical rehabilitation
  - Psychological rehabilitation
  - Dietology
  - Lymphotherapy
  - Sexology
  - Aesthetic medicine and cosmetology
  - Pregnancy and childbirth planning
- 
- Individual programs
  - Multidisciplinary specialists team
  - Rehabilitologist's support at all stages of breast cancer treatment



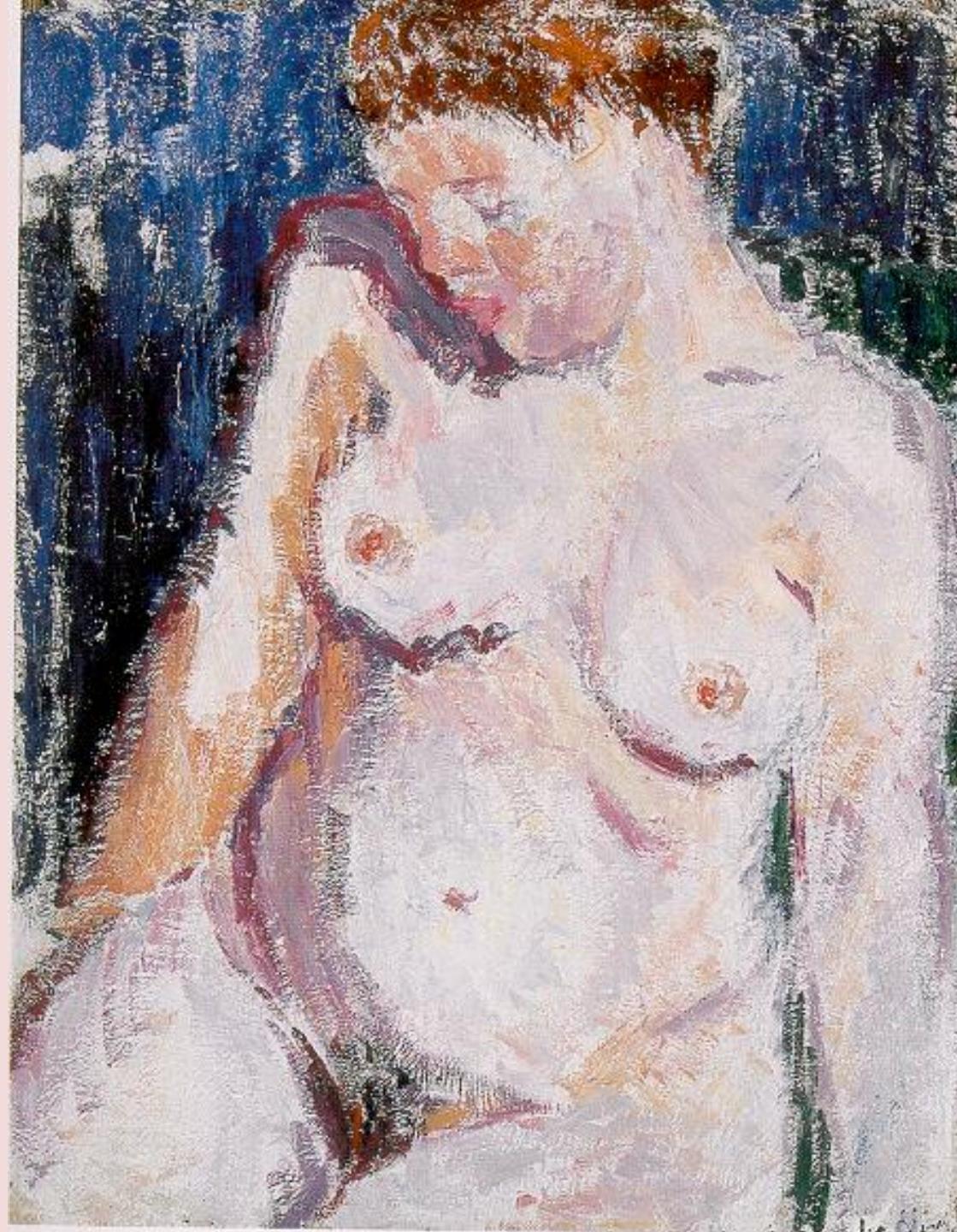
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Thank You!



*Sensing  
breast*



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