

Case I: Lymphoedema

- 53 year-old patient with left breast cancer
- **Nov 2014:** Left mastectomy, SLND and ALND, chemotherapy and RT (25 fractions)
- During next 6 months symptoms of lymphoedema in left arm, especially in upper part of arm
- **Ultimo 2015:** Start of lymphoedema treatment at physiotherapist by compression sleeve and glove with good result, only feeling of heaviness but no swelling, never erysipelas
- **2017:** Left wrist fracture, not possible to use compression stocking for a period
- Recurrence of lymphoedema now including lower part of arm
- Continues compression treatment but bothered by appearance and clothing, feels stigmatized
- "I would get a new life if I did not have to use the sleeve!"

2017



2021



Treatment options?



Case II: Chronic seroma

- 30 year-old patient with right breast cancer (ductal carcinoma and large DCIS-component, node pos.)
- **2011:** Right mastectomy and ALND (10/16 pos LN), ER 100%, HER2 normal, ki-67 10%
- Chemotherapy, endocrine treatment and RT
- **2018:** Right reconstruction with DIEP-flap, left reduction surgery
- **Nov 2019:** LN metastases in left axilla. No signs of tumour in left breast on mammography or MRI
- Left radical mastectomy, no tumour in breast at pathology, LN metastases in 16/24 LN. Dissection including anterior and cranial to axillary vein and in level III. Aberrant vein drainage is described at surgery
- Chemotherapy, continue endocrine treatment, RT
- **Jan 2020:** Lymphoedema of left arm – physiotherapy with lymphoedema treatment by compression stockings
- Since left radical mastectomy Nov 2019 seroma formation in right axilla, drainage x 2 pr week 150-200 ml
- Cytology: Haemorrhagic material with macrophags, No malignant cells

Treatment options?

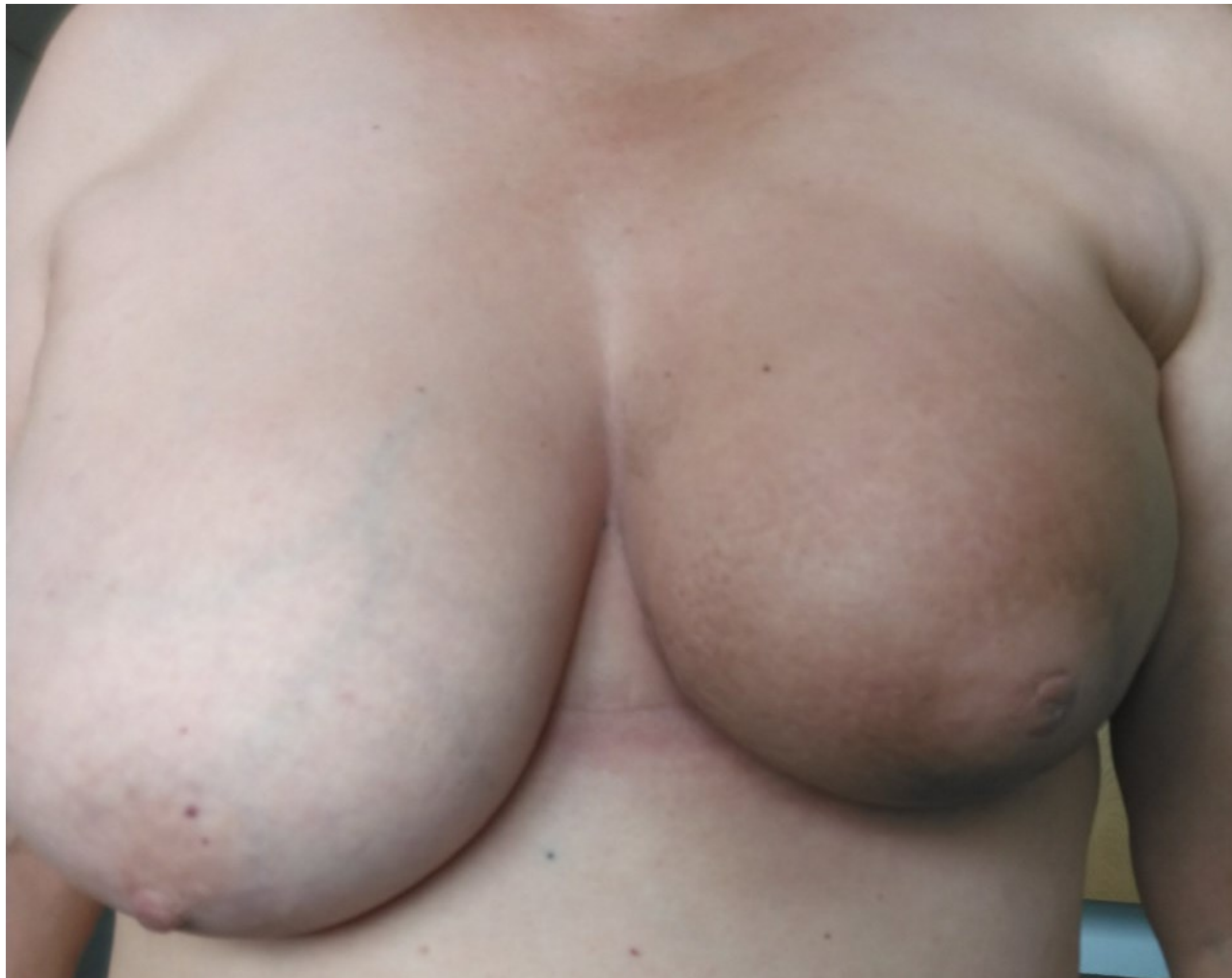
- Steroid injection in mastectomy cavity?
- Surgery with excision of seroma-capsule? (Difficult capsule probably adherent to axillary vein and proximal nerves and aberrant vein drainage)
- Surgical excision of caudal part of the capsule and VAC treatment?
- Injection of Patent Blue in arm of thoracic wall to identify possible lymph vessel draining into the cavity? Can this vessel be identified and ligated? (Could be shown by injection of Patent Blue before next seroma puncture. Blue seroma would indicate lymph vessels draining into the cavity)
- Sclerosis?
- **Will treatment accentuate the arm lymphoedema?**

Final treatment

- Solumedrol injection, 80 mg x 2
- **Result:** Reduced seroma, 90-100 ml every second week.

Case III: Breast oedema

- 57 year-old patient with hypertension, screening detected left breast cancer located between upper and lower lateral quadrant with axillary lymph node metastasis
- **Jan 2019:** left BCS and ALND, invasive ductal carcinoma, 18 mm, free margins, grade III, ER pos 20%, HER2 pos, KI67 20%, MAC in 1/31 LN
- No breast or arm lymphoedema after surgery
- Chemotherapy, endocrine treatment, Zometa, Herceptin and RT
- **April 2019:** During chemotherapy infection in left breast
- **Aug 2019:** Final RT, no dermal reaction
- **Dec 2019:** Infection in left breast
- **Feb 2020:** Increasing oedema, retraction and pain in left breast
- Mammography and UL without malignancy



Treatment options?

- Conservative treatment
- Compression bra
- Mastectomy – how large skin resection?

Final treatment

- **June 2020:** Left simple mastectomy
- **Result:** Atypical vascular lesion
- Pain disappears immediately postoperatively on the day of surgery

Case IV: Lymphoedema, breast oedema and pain

- **Nov 2019:** 41-year old patient with right triple negative breast cancer, 5.4 cm, US/FNA detected positive LN, no family history of breast cancer, bilateral cosmetic subpectoral breast implants from 2004, changed 2011, intracapsular rupture of right implant
- Treatment: 8 cycles of chemotherapy
- **June 2020:** Right BCS and TAD (3 LN removed)
- Non-pCR: Capecitabin and RT with integrated boost (CM003HIB)
- **March 2021:** Increasing pain and oedema of right breast, lymphoedema of right arm, extension deficit of right arm, feeling of tightness over right chest
- Treated by physiotherapist during last 5 months with compression bra and compression stocking on right arm. Only limited improvement after treatment



Treatment options?

