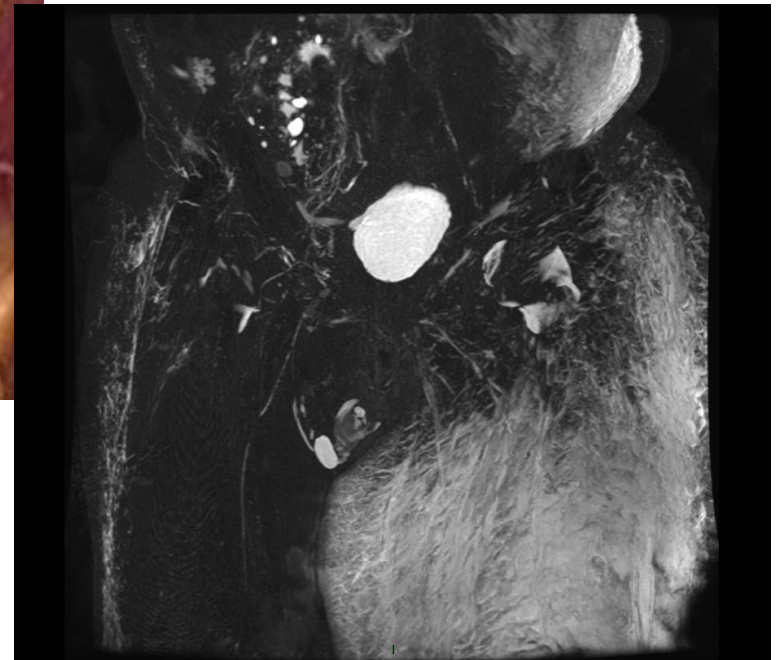


**LOWER EXTREMITY
IATROGENIC LYMPHOEDEMA**

IATROGENIC LYMPHOEDEMA OF THE LEG

IN INGUINAL REGION:
LYMPHOMA
-MELANOMA, SARCOMA
BUT ALSO AFTER AESTHETIC
SURGERIES AND
SAPHENECTOMY



LYMPHOEDEMA CAN APPEAR ALSO AFTER...

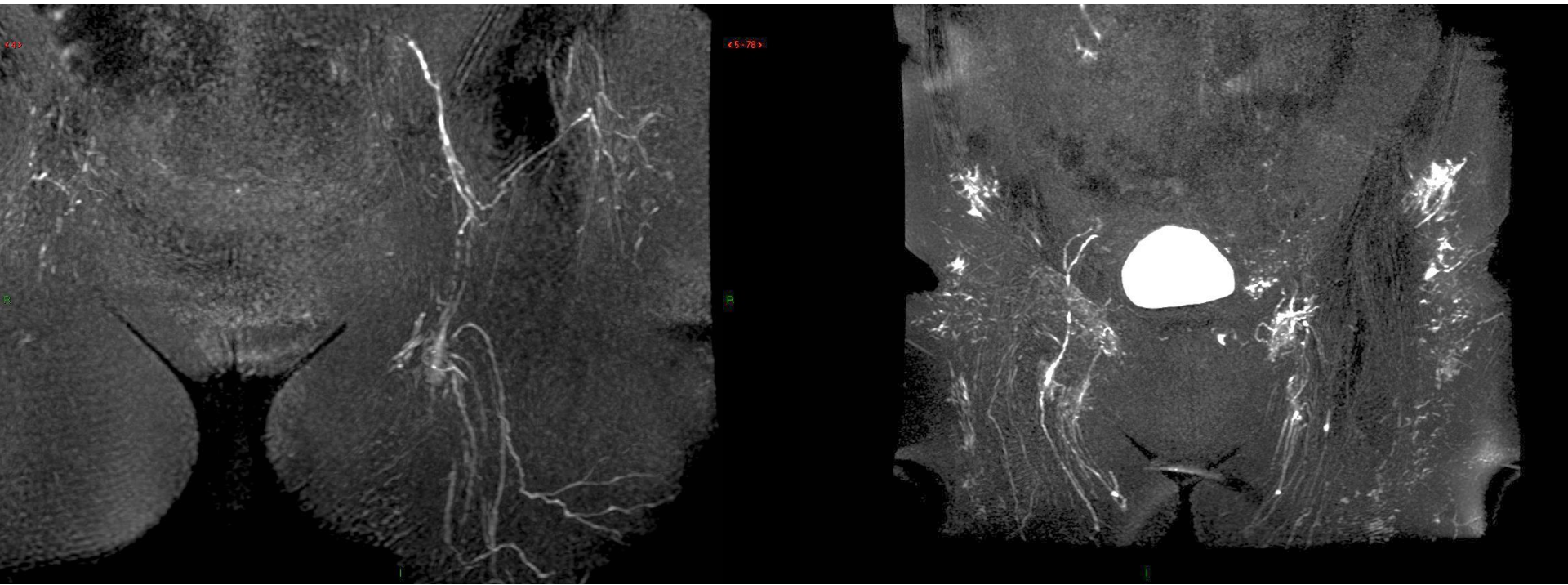


- ONCOLOGIC TREATMENT
- IN PELVIS TUMORS: UTERUS, PROSTATE,

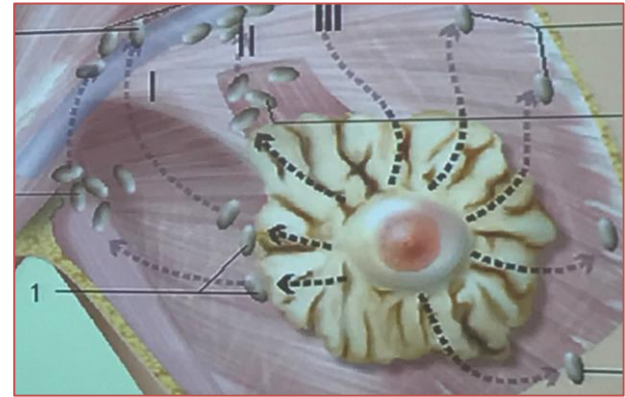


IRML

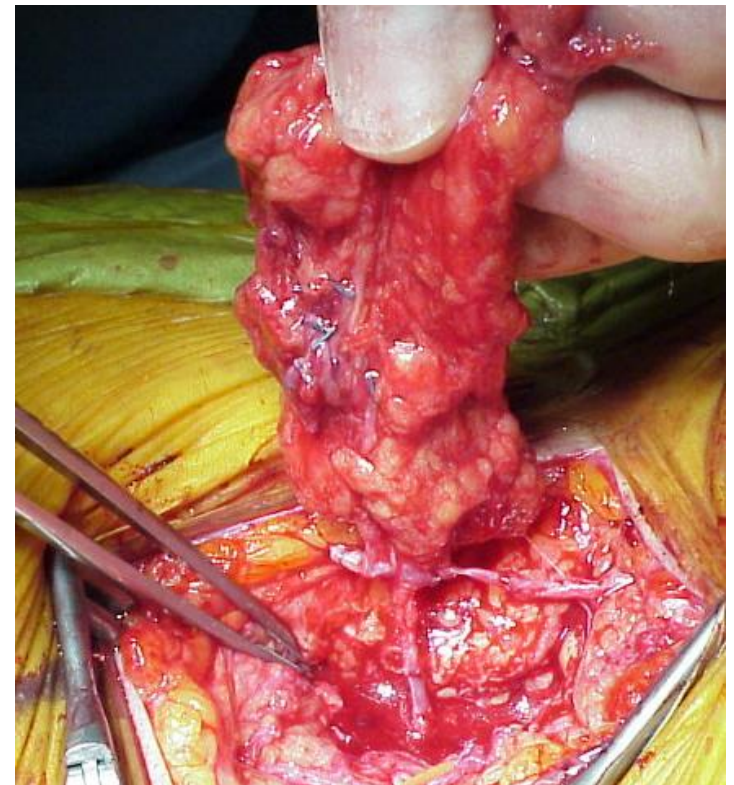
INDICATION OF RECONSTRUCTION IF NOT PATHWAYS



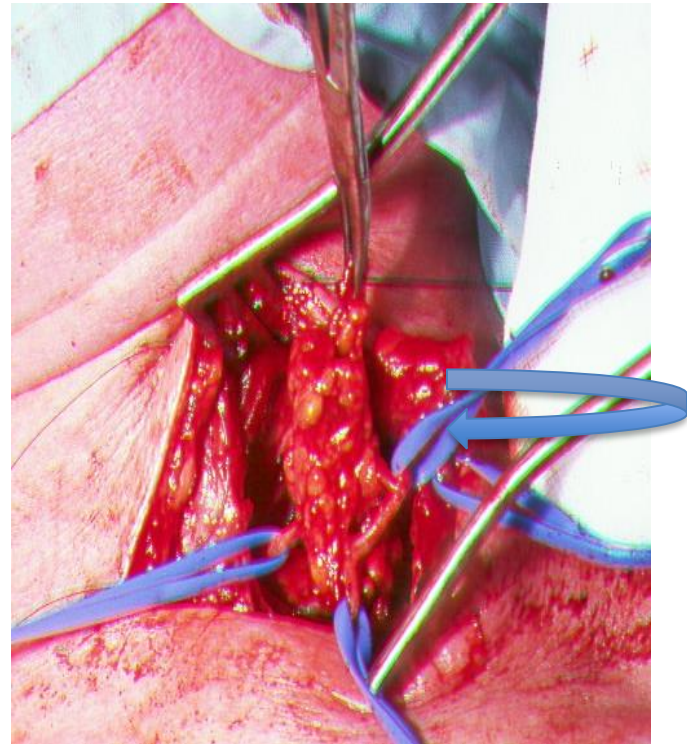
- **DONOR SITE:
THORACIC FLAP**



- **NOT AT ALL IN THE
AXILLA!!!!!!!**



CERVICAL FLAP BASED ON CERVICAL TRANSVERSE ARTERY



2 ALNT :

FLAP WILL BE INSERTED WHERE THE VESSELS ARE
NO MORE SEEN AT THE LMRI.

IN BIG LEG EDEMA:

2 FLAPS

- **FLAP INSERTED IN DEEP INGUINAL REGION**
- **AFTER 6 MONTHS: LMRI**
- **FLAP INSERTED DISTALLY ACCORDING TO LYMPH MRI**

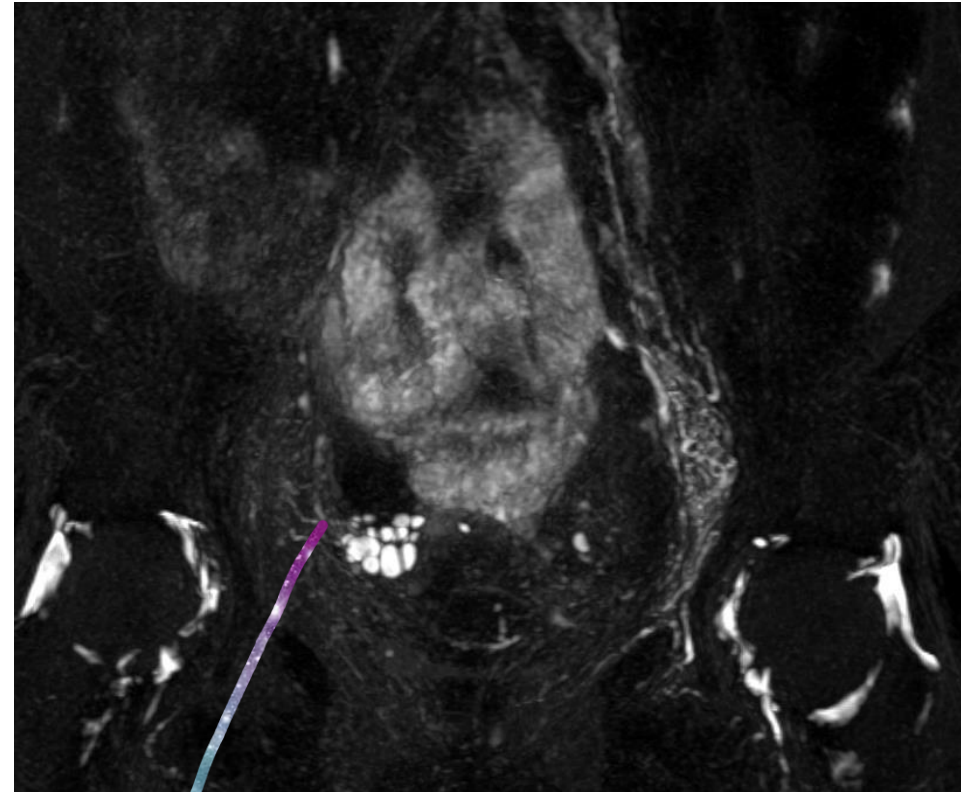
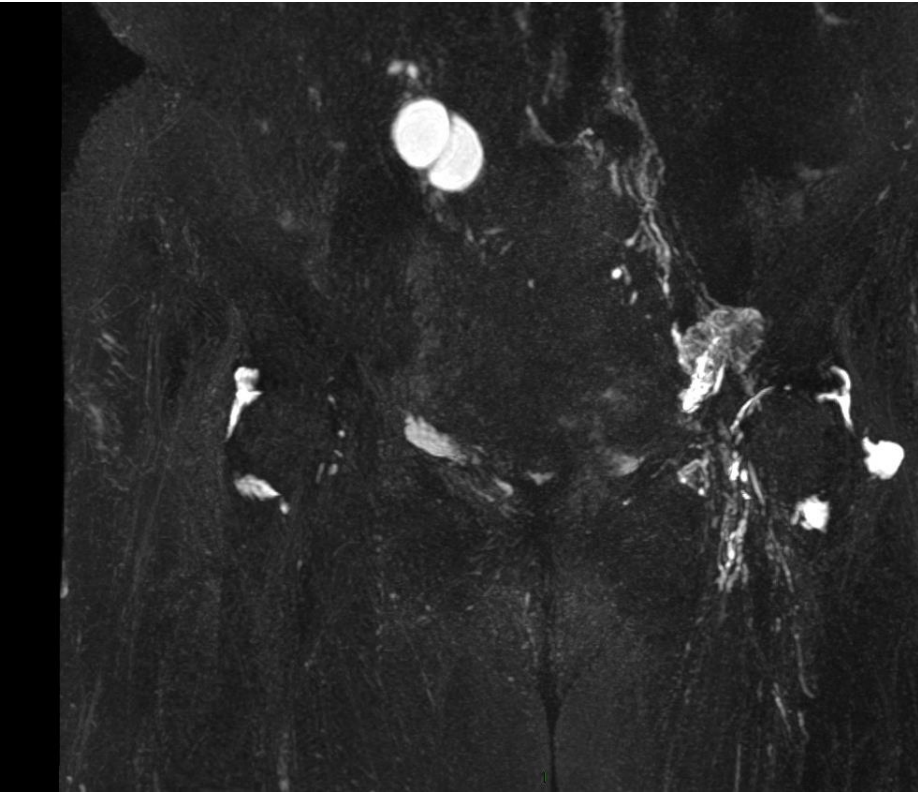
Grade 2:

lymphoedema post hysterectomy

2y post ALNT. *And mini lipo*



PRE AND POST LYMPHNODES TRANSPLANTATION IN DEEP INGUNAL AREA



new vessels



10Y LYMPHOEDEMA POST HYSTERECTOMY RESULTS AFTER 18 MONTHS



IN LYMPHOEDEMA AFTER MELANOMA
FIRST REMOVAL THE FIBROTIC TISSUE, IMPLANT THE FIRST FLAP.
SECOND FLAP AT THE KNEE AND LIPOSCULPTURE UNDER FLUOROSCOPY



RESULTS 8MONTHS POST ALNT FOR LYMPHOEDEMA
POST TREATMENT FOR MELANOMA



physiotherapy

- Very important
- Drainages. Min 3X/week plus molding with bandaging, and in elephantiasis strong compressions during some months (minimum 1 month in stages 2).
- When you remove the folds and insert some pathways for the drainage, your massages are more effective
- After liposculpture, stronger massages to avoid fibrosis post hematoma are mandatory

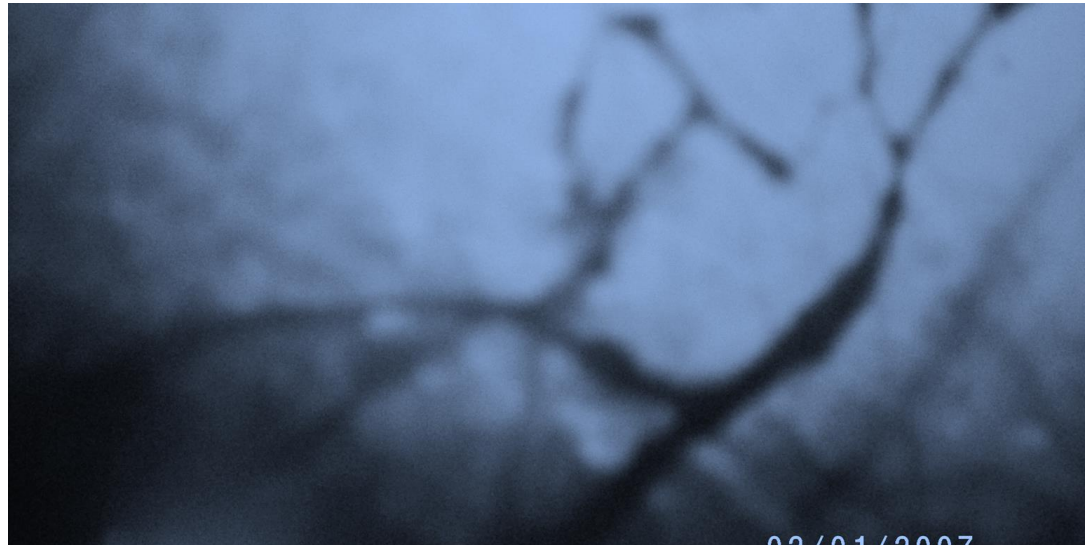


CONGENITAL
LYMPHEDEMA:
HYPOPLASIC
CASES

WHY CAN LYMPHNODES
TRANSPLANTATION WORK
IN HYPOPLASIC CASES?

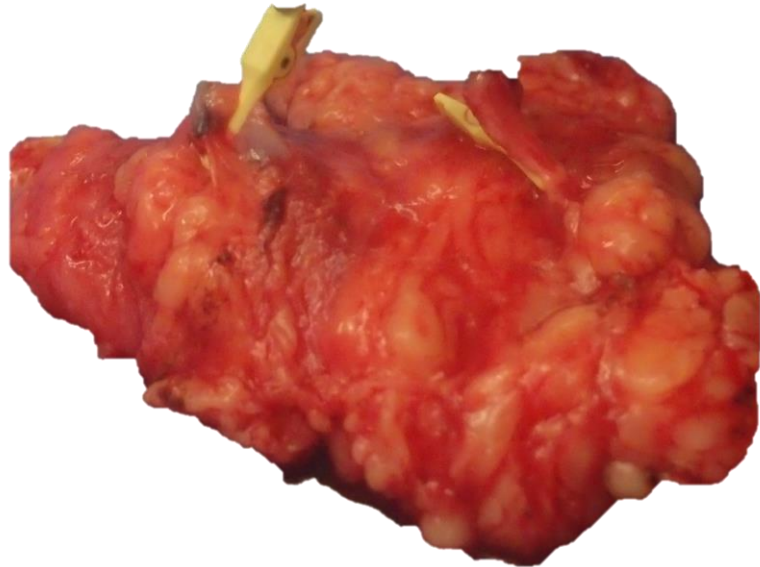
LYMPHNODES ARE PUMPING
THE ECL

AND CONTAINS VEGFC3
WHICH CREATE NEW VESSELS



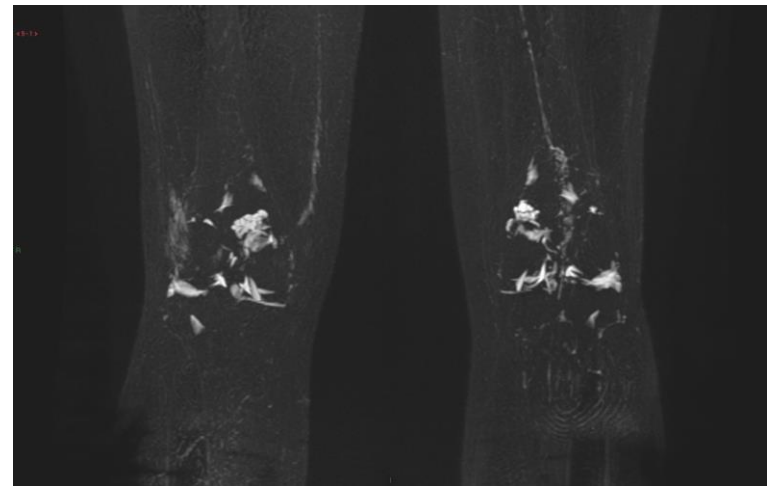
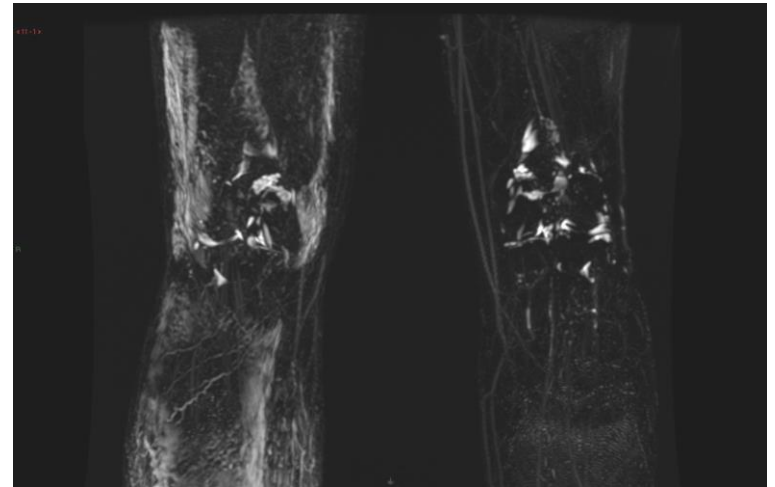
Hypoplastic cases

Nodes transplantation can improve because:
Lymphnodes contains VGEFC3



Neogenesis of lymphatic
vessels
It can help the hypoplastic
cases!!!

15Y LYMPHEDEMA PRE AND 2 Y POST ALNT



RESULTS AFTER 3 YEARS

- **STAGE 1: 87% COMPLETE HEALING**
- **NO INFECTIONS, NO STOCKINGS**
- **OTHER ARE IMPROVED**
-

**10Y LYMPHEDEMA
RESULTS 1Y AFTER
ALNT**



Obese patients

- Diet
- Mobility
- Bariatric surgery
- Plastic surgery

- *But lymphoedema must be treated!!!*
- *Multi infections, vicious circle*

Lymphoedema, obesity:

lymphnodes transfers at the knee region if distal edema
and later dermolipectomies



CHANGES IN THE SKIN JUST WITH LYMPHNODE TRANSFER, AND GOOD PHYSIOTHERAPY



CHILDREN PATHOLOGIES

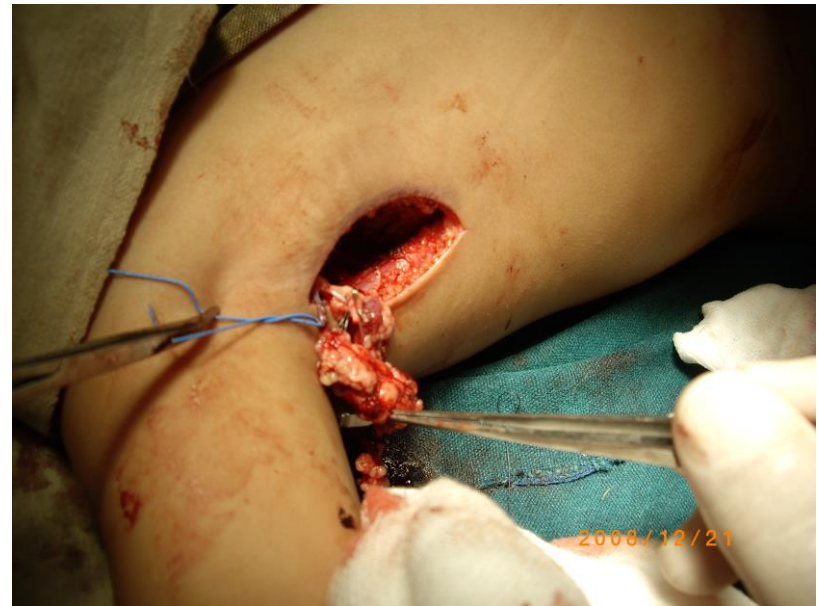
- **OFTEN COMPLEX**
- **LYMPHOMRI OF THE BODY IMPORTANT**
- **LYMPHNODES TRANSFERS INDICATED
IN HYPOPLASIC CASES**

COMPLETE HEALING AFTER LYMPHNODES TRANSFER AT 11 MONTHS OLD!!

**BABY FOLLOWED SINCE BIRTH, OPERATED AT. 1Y OLD
RESULTS 2 YEARS , 3 YEARS, 4 YEARS AFTER NODES TRANSPLANTATION**



COMBINATION OF LYMPHNODE TRANSFER AND EXCISION

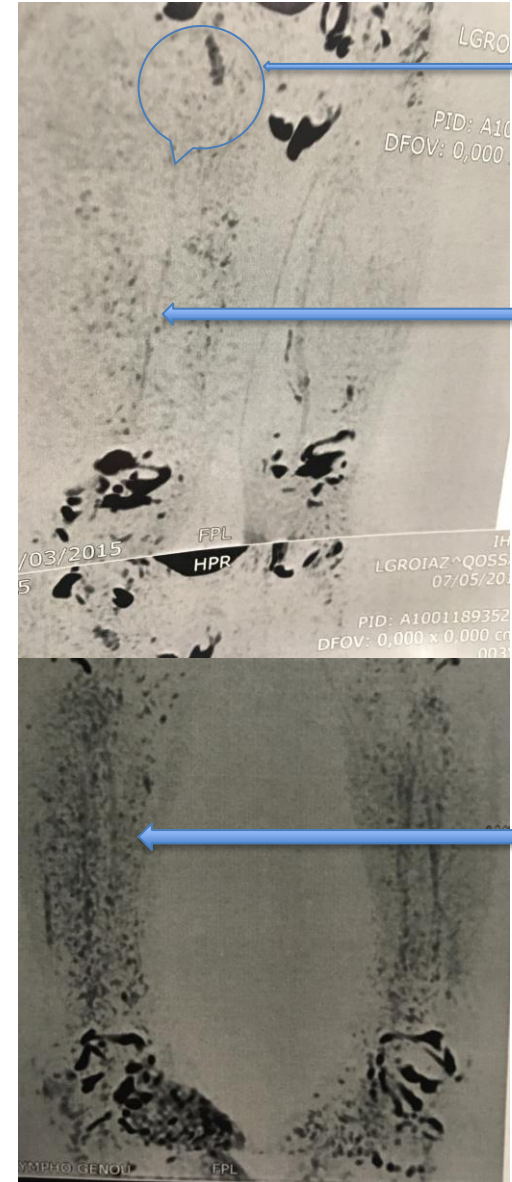


FLAP INSERTED AT THE KNEE

EARLY RESULT AFTER BILAT ALNT EVEN WITHOUT PHYSIO!!



**2 YEARS OLD BOY, 12 MONTHS AFTER ALNT IN INGUINAL AREA:
:TRANSPLANTED NODES VISIBLE AND NEW PATHWAYS!**



2 years old child, result 1 year after inguinal lymphnode transfer





Sep, 2017 (08 months)

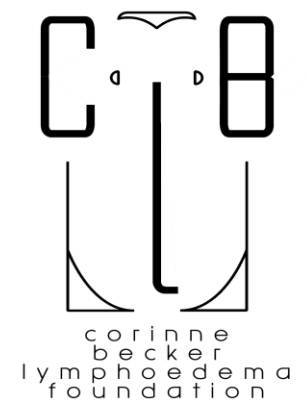


Nov 2018

complications

- Seroma of the donor site (10%)
- Hematoma (1%)
- Infections (3%)
- NO Lymphoedema of the donor site *but very complex surgery and need goos anatomic knowledge and never take the nodes of the limbs*

CONCLUSION



- **SOMETHING IS HAPPENING**
- **VGEFc, CYTOKINES,**
- ***EVEN IF IMPORTANT FIBROSIS, HEALING IS POSSIBLE.....***
- ***IMPORTANT IS THE COLLABORATION WITH THE PHYSIOTHERAPISTS AND THE RADIOLOGISTS TO UNDERSTAND AND FIND THE BEST WAY FOR COMPRESSIONS, MASSAGES, EXERCICES ETC..***