- مشخصات کلیی برنامــه -

برگزار کننده: دانشگاه علوم پزشکی ارومیه

شيوه اجرا: وبينار

نـــوع بــرنامــه: كنفرانس علمي يک روزه

عئــوان بـرنامــه: اصول مديريت زخم و درمان هاي نوين

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رشته	مرکز میزبان	ھیئت علمی	نام خانوادگــی	نــام	کد ملی
[1949] اخلاق پزشكى دكترا	دانشگاه علوم پزشکی ارومیه	ندارم	قاسم زاده	ناز آفرین	********
[1984] علوم سلولی کاربردی دکترا	دانشگاه علوم پزشکی ارومیه	استاديار	آذري	آرزو	*******
[1510] پزشکی عمومی دکترای حرفه ای [1950] پزشکی مولکولی دکترا	دانشگاه علوم پزشکی ارومیه	استاديار	مہرانفر	سحر	*******
[1510] پزشکی عمومی دکترای حرفه ای [1950] پزشکی مولکولی دکترا	دانشگاه علوم پزشکی ارومیه	دانشيار	قلي زاده قلعه عزيز	شيوا	*******
[1942] زیست فناوری پزشکی (بیوتکنولوژی پزشکی) دکترا	دانشگاه علوم پزشکی ارومیه	استاديار	قرباني	رقيه	*******
[14134] زیست شناسی سلولی و مولکولی کارشناسی ار شد	دانشگاه علوم پزشکی ارومیه	استادیار	دودي	شقايق	*******

بسمه تعالى



زخم های لنف ادم

دکترشیوا قلي زاده

پزشك متخصص پزشكي مولكولي (MD-Ph.D)

دانشيار و هيات علمي دانشگاه علوم پزشكي اروميه
گروه علوم سلولي كاربردي دانشكده پزشكي

Patient Scenario (S.N.)



Overview:

- 60 y/o white female,
- No CHF, CKD, PAD or DVT
- 12 year history of chronic, progressive edema, recurrent venous leg ulcers, recurrent cellulitis with one hospitalization, development of massive medial knee lobes, slow progression to significant disability and limited mobility





What is Lymphedema?

Lymphedema is more common than you think

LYMPHEDEMA CAUSES

Primary lymphedema is caused by malformations of the lymphatic system present at birth (congenital), but symptoms may not appear until later in life. Primary lymphedema can be passed from parent to child (hereditary). Lymphedema is also classified as primary when no known cause can be identified.

Secondary lymphedema is more common. It is the result of known damage or ongoing strain to the lymphatic system, such as:

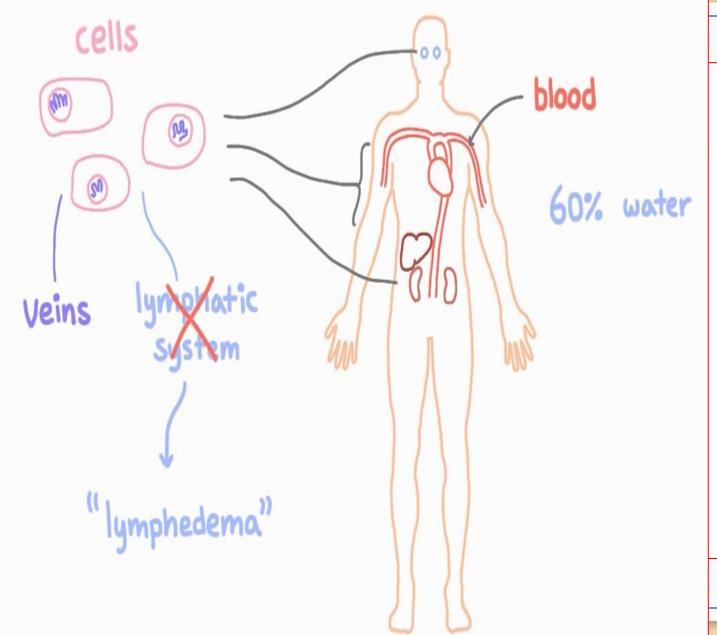
- Chronic venous insufficiency (CVI)
- Cancer treatments (removal of lymph nodes and/or radiation therapy)
- Benign or malignant tumor growth
- Trauma



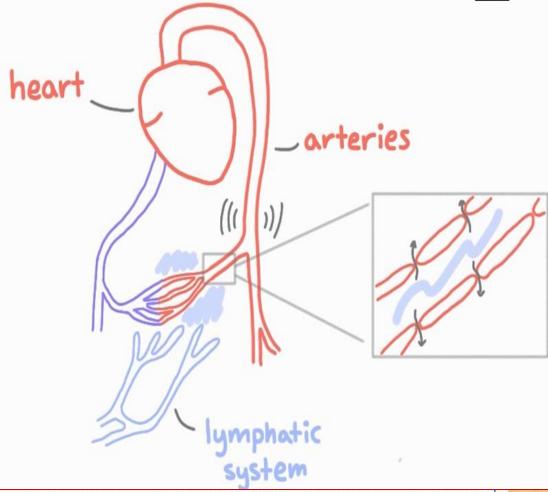
آشنایی با لنف ادم



- https://www.youtube.com/watch?v=5Vw91mIKYjU
- https://www.tactilemedical.com/lymphedema-explained/



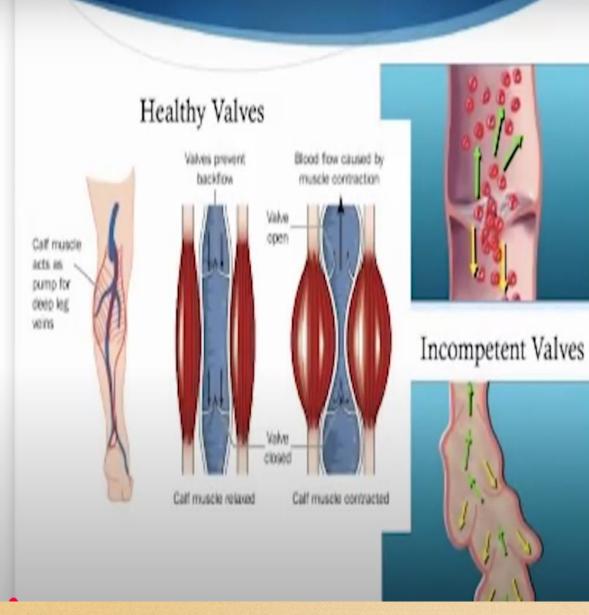


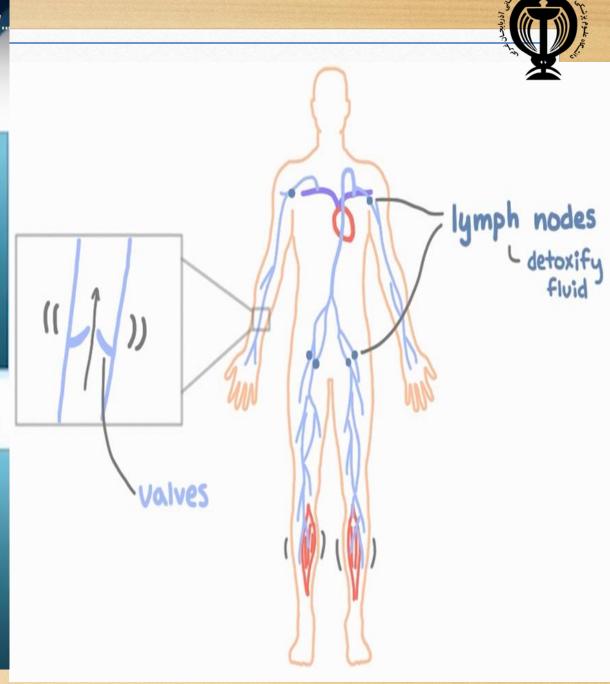


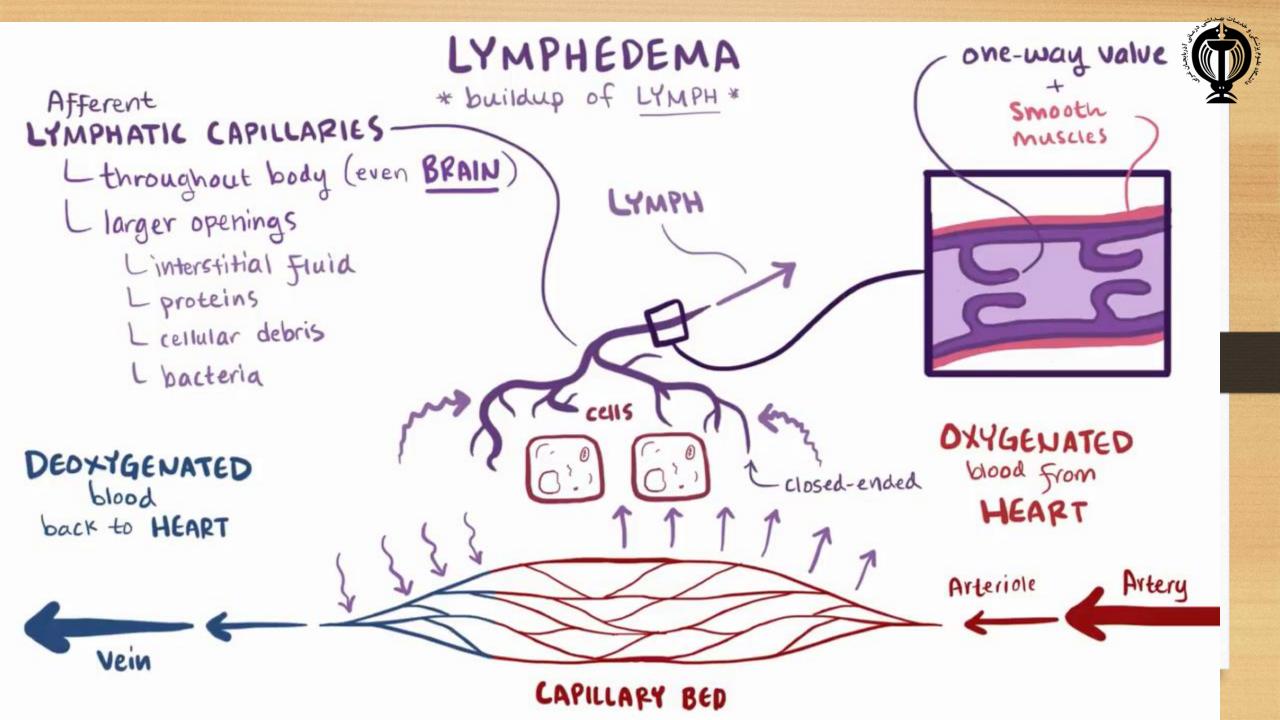
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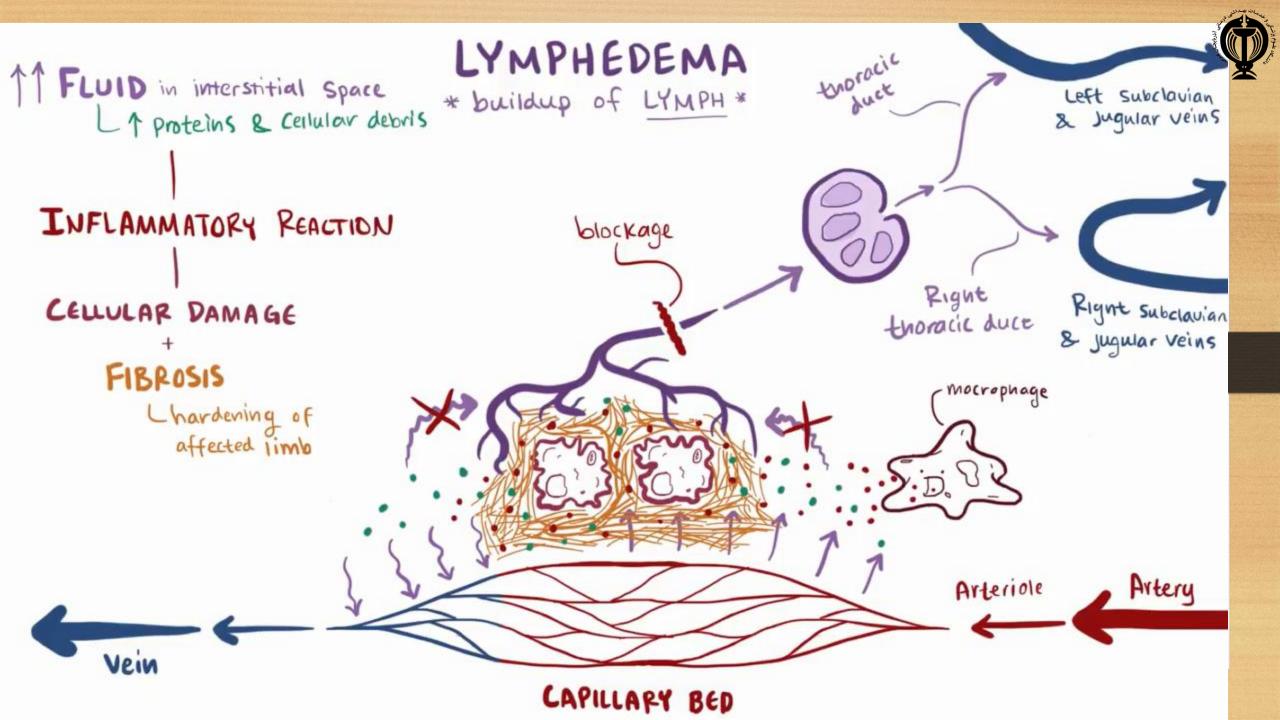
6

Wound Care and Lymphedema Treatment: Synergies, Pitfalls and Pearls for Success - LE&RN Sy...









LYMPHEDEMA

* buildup of LYMPH *



PRIMARY LYMPHEDEMA

* not caused by other disease

Lusually CONGENITAL

· lymphatics don't develop right

LYMPHEDEMA PRAECOX
DEVELOPS before age 35

LYMPHEDEMA TARDA
DEVELOPS after age 35

- associated with TURNER SYNDROME

SECONDARY

LYMPHEDEMA

GLOBALLY

LFILARIASIS ~ nematode infection

- · Wuchereria bancrofti
- · Brugia malayi
- · Brugia timori

DEVELOPED NATIONS

L CANCER MALIGNANCY

- · primary lymphoma
- · Metastatic tumor cells
- · treatment



LYMPHEDEMA

PRIMARY: HAPPENS ALONE

SECONDARY: DUE to ANOTHER DISEASE

OBSTRUCTION

- * EDEMA
- * INFLAMMATION
- * FIBROSIS

INTERSTITIAL SPACE

LYMPHATIC SYSTEM

buildUP of LYMPH

- LBANDAGES
- LMASSAGE
- LSURGERY





Phlebolymphedema= CVI + Lymphedema

Chronic CVI leading to secondary lymphedema



Chronic lymphedema with concurrent CVI (S.N.)





Lymphedema Signs and Symptoms

Lymphedema typically appears with the following signs and symptoms:

LIMB HEAVINESS

Limb heaviness is the most common early symptom of lymphedema

ACHING, FATIGUED LIMBS

Aching limbs or unusual and excessive pain/discomfort and fatigue in the limbs

PITTING EDEMA

Evident when the skin is depressed with your finger for a few seconds and the indentation does not immediately disappear

SWELLING (EDEMA)

Tightness of the skin and awareness that clothing, shoes and jewelry feel tighter in the affected extremity

DECREASED RANGE OF MOTION

Inability to move your joints and limbs to a normal degree

DECREASED FUNCTIONAL MOBILITY

Inability to stand, walk or move your body normally

FIBROSIS

Hardening or scarring of tissue in response to chronic inflammation

SKIN CHANGES

Redness/purplish discoloration, dryness, increased warmth

DECREASED MUSCLE STRENGTH

A feeling of muscle weakness that may lead to physical limitations

OPEN WOUNDS (VENOUS ULCERS)

A slow-to-heal sore on your leg caused by weak blood circulation in the limb

STEMMER SIGN

A thickened skin fold (when pinched at the base of the second toe or finger) that may be a clinical indicator of lymphedema

PAIN, DISCOMFORT, TIGHTNESS

Lymphedema is often accompanied by a feeling of pain, discomfort and tightness in the affected area

DYSPHAGIA

Difficulty swallowing

VOCAL CHANGES

Including difficulty speaking

DIFFICULTY BREATHING

Internal swelling of the larynx can make it difficult to breath

STAGES OF LYMPHEDEMA

It is important to note that while the following lymphedema stages are commonly recognized, there may be differing levels of severity within each stage.



Stage 0

Swelling may not be apparent despite impaired lymphatic function. Symptoms at this stage may include heaviness, tightness or tingling.

Stage 1

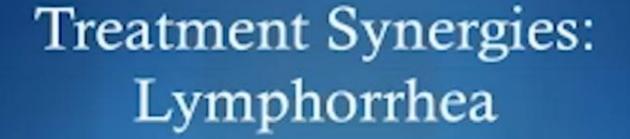
With rest and/or elevation, the swollen limb returns to normal size. Pitting may be present. (When pressure is applied to the skin of the swollen area and released an indentation remains.)

Stage 2

The tissue can present with pitting, but often in this stage more significant skin changes are present with development of fibrosis tissue; the tissue may have a spongy feel.

Stage 3

The tissue at this stage can be hard (fibrotic). The swelling may be largely irreversible and the limb can be very large and swollen. Infections are possible at any stage of lymphedema; however, the risk increases as the stages progress.





Lymphorrhea (leakage of lymph fluid on the skin) and wound drainage both contain enzymes that denude the skin, causing painful, shallow wounds



Photo: ILF BEST PRACTICE FOR THE MANAGEMENT OF LYMPHOEDEMA



Treatment Pearls: Lymphorrhea

- Superabsorbent dressings have "diaper technology" that can absorb
 & trap very large amounts of fluid
- Vertical and lateral wicking move fluid away from the surface of the skin and distribute it evenly throughout the dressing, keeping the skin dry

 Superabsorbers work well under compression therapy



Photo: ILF BEST PRACTICE FOR THE MANAGEMENT OF LYMPHOEDEMA

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Treatment Synergies: Chronic Wounds



- Lymphedema can lead to chronic wounds and chronic wounds can lead to lymphedema
- Lymphedema and chronic wounds need to be treated concurrently for optimal care



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Treatment Pearls: Chronic Wounds



- Add modified CDT, including MLD and compression, whenever Stemmer's Test is positive
- Inelastic compression with chipped foam can help soften thickened, fibrotic tissue associated with phlebolymphedema
- CDT can help optimize wound healing potential and reduce risks of recurrent cellulitis & infections



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