



IX Congresso
Novas Fronteiras
em Medicina Cardiovascular

CENTRO HOSPITALAR
UNIVERSITÁRIO
LISBOA NORTE, EPE



HOSPITAL DE
SANTAMARIA



Hospital
Pulido Valente

Modern approach for complex wounds in vascular surgery

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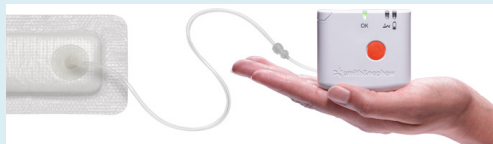


MODERN APPROACH FOR COMPLEX WOUNDS IN VASCULAR SURGERY

Key ideas

- The approach to the treatment of complex wounds should be **multidisciplinary**;
- **Information and training** of team members is fundamental;
- The **application of compliance criteria** in these therapies should be rigorous (high cost).



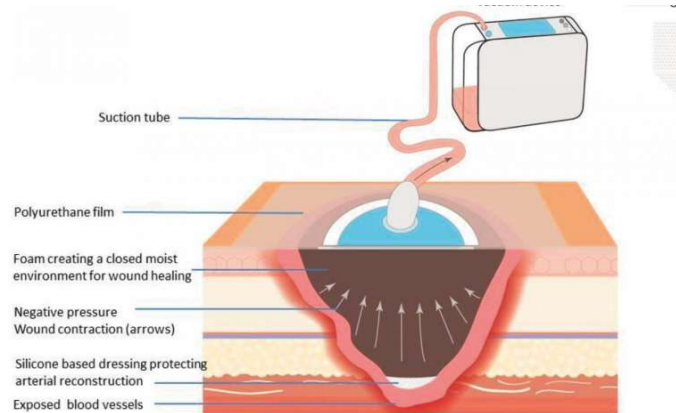




MODERN APPROACH FOR COMPLEX WOUNDS IN VASCULAR SURGERY

Negative-pressure Wound Therapy (NPWT)

- Use of a source of negative pressure connected to the wound bed through a reservoir and a drain.
- Completely sealed through a transparent film allowing the aspiration to reach the desired negative pressure.



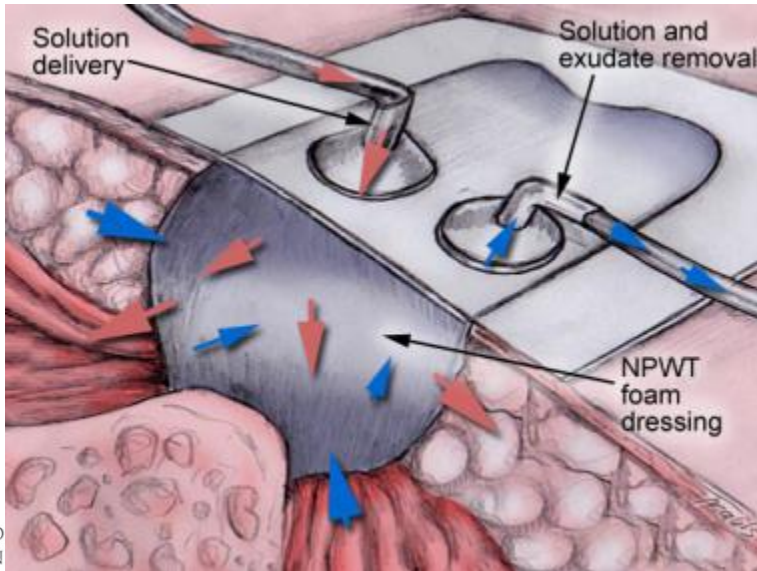


MODERN APPROACH FOR COMPLEX WOUNDS IN VASCULAR SURGERY

Negative-pressure Wound Therapy (NPWT)

Types of NPWT:

- Irrigation-NPWTi;





MODERN APPROACH FOR COMPLEX WOUNDS IN VASCULAR SURGERY

Negative-pressure Wound Therapy (NPWT)

Types of NPWT:

- Ultraportable;
- Incisional - ciNPT.





MODERN APPROACH FOR COMPLEX WOUNDS IN VASCULAR SURGERY

CASE 1

- Female, 36 years.
- Juvenile lupus (25 years of evolution); anti-phospholipid syndrome.
- 07-10-2018: traffic accident with traumatic injury in both lower limbs.
- Admitted in the **Plastic Surgery** Department: bilateral subdermal hematoma of the thighs.
- Submitted to debridement and initiation of **NPWTi**.
- Favorable but very slow evolution.
- Transferred to **Vascular Surgery** 13-12-2018 under **NPWTi**.

09-11-2018



18-12-2018



23-12-2018





MODERN APPROACH FOR COMPLEX WOUNDS IN VASCULAR SURGERY

CASE 1

03-01-2019

Vascular Surgery: bilateral iliac revascularization.

Plastic Surgery: skin grafting.





MODERN APPROACH FOR COMPLEX WOUNDS IN VASCULAR SURGERY

CASE 1

**NPWT with silicone
interface**

11-01-2019



**HOSPITAL DISCHARGE
Ultraportable NPWT**

16-01-2019





MODERN APPROACH FOR COMPLEX WOUNDS IN VASCULAR SURGERY

2016: FIRST CASE OF LARVAL DEBRIDEMENT THERAPY IN THE CHULN-VASCULAR SURGERY





MODERN APPROACH FOR COMPLEX WOUNDS IN VASCULAR SURGERY

Larval Debridement Therapy (LDT)

- Painless therapy that allows selective debridement of necrotic tissue (without associated hemorrhagic risk) and faster healing of complex wounds.
- Its use in BioBag® allows easy application and removal.



BioBag®



BioMonde Larvae®



MODERN APPROACH FOR COMPLEX WOUNDS IN VASCULAR SURGERY

Daily Evaluation

Day 1



Day 2



Day 3



Day 4





MODERN APPROACH FOR COMPLEX WOUNDS IN VASCULAR SURGERY

CASE 2

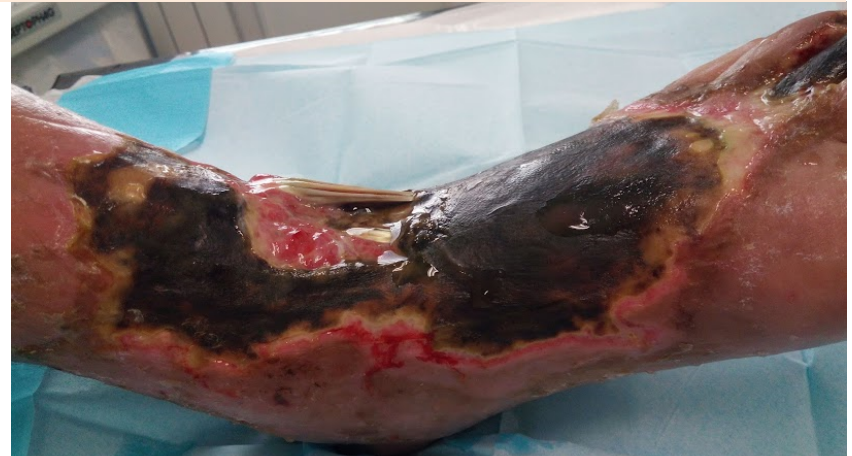
- Male, 52.
- Left lower limb critical ischemia (IV).
- **September 12, 2018:** femoral endarterectomy + pericardial patch angioplasty + iliac stenting.

LDT: 1st day of 1st cycle

14-09-2018



19-09-2018





MODERN APPROACH FOR COMPLEX WOUNDS IN VASCULAR SURGERY

CASE 2

**Surgical revision.
Toe amputation.**

**NPWT
White Foam**

**Discharge
Ambul Unit**

**Ultraportable
NPWT**

**19-09-2018
1st day of LDT**

**01-10-2018
13th day of LDT**

08-10-2018

12-10-2018

06-11-2018

19-11-2018





MODERN APPROACH FOR COMPLEX WOUNDS IN VASCULAR SURGERY

CASE 3

- Male, 82 years-old.
- Peripheral arterial disease, dyslipidemia, arterial hypertension, diabetes mellitus.
- **03-03-2018 BUC:** toe amputation (D5).
- **21-03-2018:** right femoral endarterectomy + femoral angioplasty + toe amputation D3+D4.
- **06-04-2018 BUC:** surgical debridement.

27-03-2018



03-04-2018





MODERN APPROACH FOR COMPLEX WOUNDS IN VASCULAR SURGERY

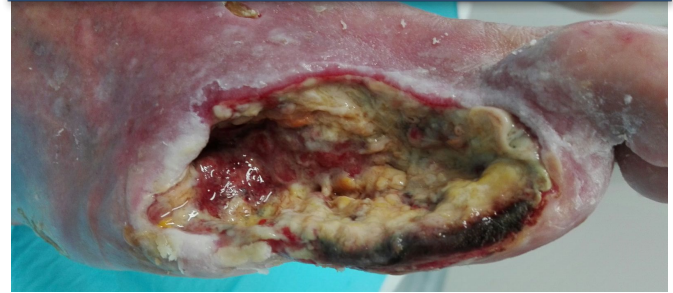
27-03-2018



CASE 3

13-04-2018

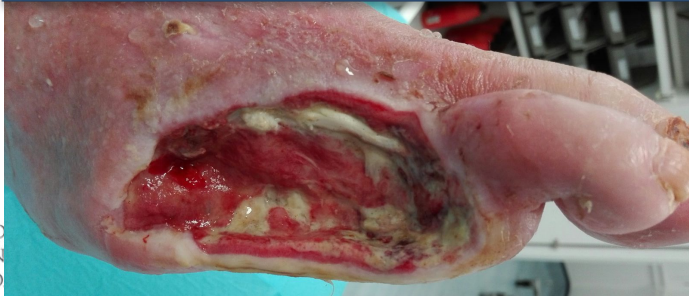
LDT 1st day of 1st cycle



27-04-2018

15th day of LDT (4 cycles)

Starts Hyaluronic Acid and NPWT



30-04-2018

Hospital discharge under NPWT





MODERN APPROACH FOR COMPLEX WOUNDS IN VASCULAR SURGERY

Take home messages

- Modern techniques for wound prevention and treatment **determine good results and wound healing rates.**
- **Negative Pressure Therapy and Larvae Debridement Therapy (LDT)** are very helpful adjuvant treatments in patients with complex wounds in association with revascularization procedures.



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**The Village Praia
D'El Rey - Óbidos**

Organização



Coordenação Científica



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