



Name of Journal: World Journal of Clinical Cases

Manuscript Type: REVIEW

**Non-invasive physical therapy as salvage measure for ischemic skin flap: A literature review**

**Running Title:** Physical therapy in skin flaps

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### [The Use of Multispectral Imaging in DIEP Free Flap ...](#)

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old standard for preoperative perforator mapping, while color ultrasound Doppler is considered more reliable for determining vessel caliber. Intraoperatively, an imaging modality that provides sequential, real-time assessment of various perforators' supply to the flap would provide helpful insight to determine which perforator will optimize flap viability, especially of the most distal ...

### [Hyperbaric Oxygen following Bilateral Skin-sparing ...](#)

<https://journals.lww.com/prsgo/Fulltext/2016/04000/...>

A search of the English literature identified only 2 earlier case reports of hyperbaric oxygen therapy to prevent necrosis of ischemic skin flaps after mastectomy. One involved a woman with BRCA-2 gene mutation who developed erythematous wound dehiscence 1 day after bilateral mastectomy and implant reconstruction. After 20 sessions of HbO ...

### [Degloving Soft Tissue Injuries of the Extremity ...](#)

<https://journals.lww.com/prsgo/Fulltext/2020/11000/...>

nts with DSTIs of an extremity over a 22-year period has been done. Results: 188 patients with 201 extremity DSTIs were included. Mean patient age was 37 years, with follow-up of 19.6 months. In total, 96% of injuries were related to motor vehicles or machinery, and 74.6% of DSTIs had injuries to structures deep to skin/subcutis. The avulsed tissue was utilized in reconstruction in 71.6% of ...

### [Postoperative complications after closed calcaneus ...](#)

<https://journals.sagepub.com/doi/full/10.1177/0300060513495626>

Dec 10, 2013 - Skin flap necrosis is usually the result of improper incision and exposure, or a lengthy time taken for distraction. 13 Necrosis is most often observed at the corner of the lateral L-shaped incision, possibly related to the areas supplied by the peroneal artery. 2 To prevent skin flap necrosis, the incision should be curved and the exposure ...

Cited by: 25

Author: Xiao Yu, Qing-Jiang Pang, Liang Chen, C...

Publish Year: 2014

### [Review of soft tissue coverage options in distraction ...](#)

<https://parjournal.net/article/view/3395> ▾

Abstract. Aim: To review the choices of soft tissue coverage in distraction osteogenesis of the extremity. Methods: A PubMed literature search yielded 14 articles included for systematic review. Data were



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## Leech Therapy for Patients With Surgically Unsalvageable ...

<https://jamanetwork.com/journals/jamaotolaryngology/fullarticle/482996> ▾

Aug 01, 2002 · Some microvascular surgeons believe that leech **therapy** is a temporizing **measure** but, alone, will not save a free **flap**. 9,10 However, previous reports describe the successful use of leeches for treating **flaps** with venous congestion. 11-14 These reports do not concentrate solely on head and neck free tissue transfer, and there is limited ...

**Cited by:** 93

**Author:** Douglas B. Chepeha, Brian Nussenbaum, C...

**Publish Year:** 2002

## Severe mutilating injuries with complex macroamputations ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4499889>

Jul 07, 2015 · The operation was followed by several interventions including a vascular loop and later on a free rectus **flap** with split **skin** graft in order to cover the defect and keep the length of the limb. One patient received three days after the initial treatment a free latissimus dorsi **flap** to cover the soft tissue defect of the forearm.

**Cited by:** 10

**Author:** Katrin Stanger, Raymund E. Horch, Adrian D...

**Publish Year:** 2015

## Green Light Photoplethysmography Monitoring of Free Flaps ...

<https://jamanetwork.com/journals/jamaotolaryngology/fullarticle/404721> ▾

May 01, 2000 · Background Monitoring strategies have been developed to address the issue of detecting

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## Chemically Modified SDF-1 $\alpha$ mRNA Promotes Random Flap ...

<https://europepmc.org/article/MED/33614652> ▾

Our study showed that fibroblasts pre-treated with **SDF-1 $\alpha$  modRNA** have the potential to salvage ischemic skin flaps. Through a detailed analysis, we revealed that a fibroblast SDF-1 $\alpha$  modRNA combinatorial treatment dramatically reduced tissue necrosis and significantly promoted neovascularization in random skin flaps compared to that in the control and vehicle groups.

## Leech Therapy for Patients With Surgically Unsalvageable ...

<https://jamanetwork.com/journals/jamaotolaryngology/fullarticle/482996> ▾

Aug 01, 2002 · Previous studies report that 2 to 50 leeches are required for **flap salvage**. 13,33 Some reconstructive surgeons believe that the frequency of applying leeches to the **flap** should be minimized as long as oozing from previous leech bites is providing continued venous drainage. 12 This discrepancy can also be explained if leeches were being used as an adjunct to treat lesser degrees of venous congestion rather than as a true **salvage therapy**. Although all patients' **flaps** ...

**Cited by:** 93**Author:** Douglas B. Chepeha, Brian Nussenbaum, C...**Publish Year:** 2002

## Severe mutilating injuries with complex macroamputations ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4499889>

Jul 07, 2015 · The **review** of the **literature** reports an incidence of 2.5–8 % of affected patients. Obviously the artificial replacement of the upper limb with a prosthesis is only tolerated in only 20 to maximum 50 % of the cases. A situation of chronic pain is reported to occur in 5–10 % of the patients .

**Cited by:** 10**Author:** Katrin Stanger, Raymund E. Horch, Adrian D...**Publish Year:** 2015

## Ischemic Complications after Nipple-sparing Mastectomy ...

[https://journals.lww.com/prsgo/Fulltext/2019/05000/...](https://journals.lww.com/prsgo/Fulltext/2019/05000/)

May 23, 2019 · Approximately 21% of cases with major **ischemic** complications required explantation and secondary reconstruction, significantly higher than typical overall explantation rates in larger NSM series. 10, 11, 24 Cases requiring explantation were compared with those who avoided implant removal to determine whether certain variables may influence the ability to **salvage** a reconstruction ...

## Histamine iontophoresis on the viability of random skin ...

[www.scielo.br/scielo.php?script=sci\\_arttext&pid=S0102-86502009000100010](http://www.scielo.br/scielo.php?script=sci_arttext&pid=S0102-86502009000100010) ▾