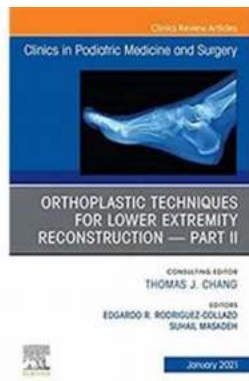


Orthoplastic Techniques For Lower Extremity Reconstruction Part II: An Issue Of

Orthoplastic techniques have revolutionized the field of lower extremity reconstruction, offering innovative solutions for complex cases. In this second part of our series, we will dive deeper into the various techniques and procedures involved in orthoplastic surgery.

Lower extremity injuries, whether caused by trauma or disease, can significantly impact the quality of life for patients. Orthoplastic surgery aims to restore form and function to these injured extremities through the integration of orthopedic and plastic surgical techniques.

This issue is dedicated to exploring the advancements and challenges in lower extremity reconstruction, presenting a comprehensive guide for orthopedic surgeons and plastic surgeons alike.



Orthoplastic techniques for lower extremity reconstruction – Part II, An Issue of Clinics in Podiatric Medicine and Surgery, E-Book (The Clinics: Orthopedics 38) by Karen George (Kindle Edition)

★★★★★ 5 out of 5

Language : English
File size : 116528 KB
Text-to-Speech : Enabled
Enhanced typesetting : Enabled
Print length : 280 pages



Key Procedures and Techniques

1. Microvascular Flap Reconstruction:

This technique involves the transfer of tissue from a healthy donor site, usually taking a blood vessel along with it. Microvascular flap reconstruction allows for the reconstruction of large defects in complex cases, ensuring adequate blood supply and minimizing the risk of tissue necrosis.

2. External Fixation:

External fixation plays a crucial role in maintaining proper alignment and stability of the reconstructed lower extremity. It involves the use of specialized frames and pins to provide stability while the bones and soft tissues heal. The versatility of external fixation allows for gradual adjustments and precise control over the healing process.

3. Free Tissue Transfer:

Free tissue transfer involves the transfer of healthy, well-vascularized tissue from one part of the body to another. This technique is commonly used in cases where extensive tissue loss occurs. Free tissue transfer ensures efficient wound coverage and enhances functional outcomes.

4. Skin Grafting:

Skin grafting involves the transplantation of a thin layer of skin from a donor site to cover the wound. This technique is effective for smaller, superficial wounds where primary closure is not possible. Skin grafts help in wound healing, reducing the risk of infection, and improving aesthetics.

Case Studies

In this section, we present three compelling case studies that exemplify the successes and challenges in lower extremity reconstruction.

Case 1: Severe Open Fracture

A 45-year-old male presents with a severe open fracture in his right lower extremity. The bone is exposed, and there is significant soft tissue loss. This case highlights the use of microvascular flap reconstruction combined with external fixation to restore bone alignment and provide adequate soft tissue coverage. The patient achieved excellent functional outcomes and regained the ability to walk without assistance.

Case 2: Chronic Diabetic Foot Ulcers

A 60-year-old female with long-standing uncontrolled diabetes mellitus is suffering from multiple chronic foot ulcers. This case delves into the intricacies of managing diabetic foot ulcers using a combination of free tissue transfer and skin grafting. The comprehensive approach resulted in improved wound healing, reduced infection rates, and a significant enhancement in the patient's quality of life.

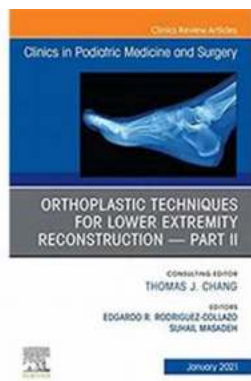
Case 3: Giant Cell Tumor of the Distal Femur

A 30-year-old male presents with a giant cell tumor in his distal femur. This case study examines the role of limb salvage surgery, utilizing tumor resection followed by a custom-made endoprosthesis. The surgical team successfully reconstructed the lower extremity, preserving mobility and preventing the need for amputation.

Orthoplastic techniques have transformed the approach to lower extremity reconstruction, offering innovative solutions for complex cases. This article provided a comprehensive overview of various techniques and procedures

involved in orthoplastic surgery, showcasing their efficacy through compelling case studies.

As the field continues to evolve, orthopedic surgeons and plastic surgeons must collaborate and explore new possibilities to enhance functional outcomes and improve patients' quality of life.



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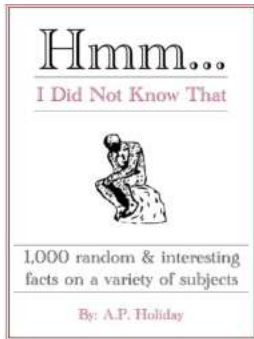
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Guest edited by Drs. Edgardo R. Rodriguez-Collazo and Suhail Masadeh, this issue of Clinics in Podiatric Medicine and Surgery is Part II of the Editors' two-part issue on Orthoplastic techniques for lower extremity reconstruction. This issue is one of four selected each year by our series Consulting Editor, Dr. Thomas Chang. Articles in this issue include, but are not limited to: The Role of Bone Marrow Aspirate in Osseous and Soft Tissue Pathology; Reconstructive Pedal Amputation; A Surgical Approach to Location Specific Neuropathic Foot Ulceration; A Novel Technique of External Fixation For Immediate Post-Operative Ambulation And Protection Of Soft Tissue Reconstructions; Classification and Management of stump neuroma; Treatment Protocol for Peripheral Nerve Dysfunction of the Lower Extremity: A Systematic Approach; Targeted Muscle

Reinnervation for the Management of Drop Foot; Membrane induced technique for the management of combine soft tissue and osseous defects; Management of Osseous Defects in the Tibia; and Vascularized fibula free and fibular medialization for the management of bone defects.



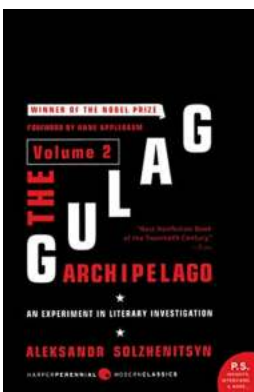
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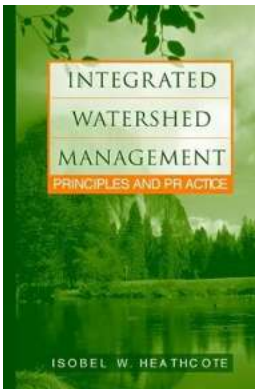
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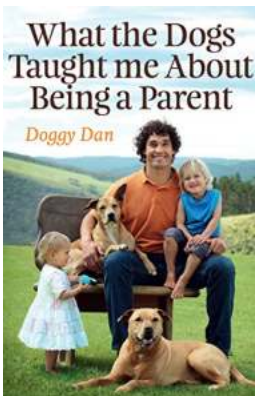
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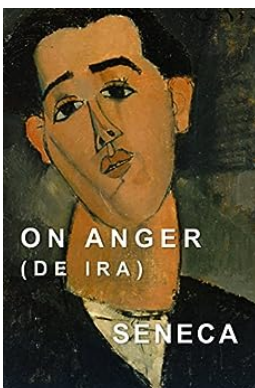
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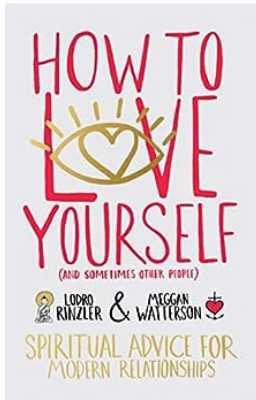
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