

# Atlas Of Amputations And Limb Deficiencies Surgic

Atlas Of Amputations And Limb Deficiencies Surgic atlas of amputations and limb deficiencies surgic is an essential resource for surgeons, medical students, rehabilitation specialists, and healthcare professionals involved in the management of limb loss and congenital limb deficiencies. This comprehensive atlas offers detailed visual and textual guidance on the surgical techniques, anatomical considerations, and postoperative management strategies necessary to optimize patient outcomes. As limb amputations and deficiencies can significantly impact a patient's quality of life, understanding the nuances of surgical intervention is crucial. This article provides an in-depth overview of the key aspects covered in the atlas, including types of amputations, surgical techniques, indications, preoperative planning, and postoperative care, all structured to enhance knowledge and improve clinical practice.

**Understanding Limb Amputations and Deficiencies**

Limb amputations refer to the surgical removal of a limb or part of a limb due to trauma, vascular diseases, infections, or malignancies. Limb deficiencies, on the other hand, are congenital or developmental conditions where parts of limbs are absent or underdeveloped. Both conditions present unique challenges and require tailored surgical approaches.

**Types of Limb Amputations**

The atlas categorizes amputations based on the level and purpose, including:

- Upper limb amputations:** including shoulder disarticulations, transhumeral, transradial, wrist disarticulations, and partial hand amputations.
- Lower limb amputations:** including hip disarticulations, transfemoral (above-knee), transtibial (below-knee), ankle disarticulations, and partial foot amputations.

**Congenital Limb Deficiencies**

These are classified based on the level of deficiency:

- Preaxial deficiencies:** (thumb or big toe absent or hypoplastic)
- Postaxial deficiencies:** (fifth digit or outer toes absent)
- Transverse deficiencies:** (absence across the limb at a particular level)
- Longitudinal deficiencies:** (partial absence along the limb's length)

**Surgical Principles and Techniques**

The atlas emphasizes individualized surgical planning, considering anatomy, functional goals, patient health, and prosthetic compatibility.

**Preoperative Planning**

Successful amputation surgery begins with meticulous planning:

- Assessment of the patient:** including vascular status, neurological function, and comorbidities.
- Imaging studies:** X-rays, MRI, or Doppler ultrasound to evaluate bone and soft tissue structures.
- Level selection:** balancing the need for durability, preserving function, and facilitating prosthetic fitting.
- Patient counseling:** discussing expectations, rehabilitation, and postoperative care.

and prosthetic4. options. **Surgical Techniques for Common Amputations** The atlas details step-by-step procedures for various amputation types, including:

- **Transfemoral (Above-Knee) Amputation** - Incision planning: posterior or anterior flaps based on the residual limb anatomy.
- **Bone management**: ensuring a well-shaped residual femur, often performed with bone shortening or shaping.
- **Soft tissue management**: creating a conical, well-vascularized residual limb.
- **Muscle balancing**: preventing contractures and ensuring functional prosthetic socket fit.
- **Closure**: tension-free skin closure with proper padding.

**Transtibial (Below-Knee) Amputation** - Incision placement: often a long posterior flap with anterior skin flap.

- **Bone trimming**: shaping the tibia with a beveled or rounded end.
- **Soft tissue coverage**: ensuring muscle and skin coverage of the residual limb.
- **Nerve management**: handling cut nerves to prevent neuromas.
- **Wound closure**: using techniques to promote healing and reduce infection risk.

**Upper Limb Amputations** Procedures like transhumeral or transradial amputations focus on preserving as much limb length as possible, optimizing prosthetic control, and maintaining cosmesis.

**3 Postoperative Care and Rehabilitation** The success of limb amputation surgery is heavily dependent on effective postoperative management.

**Wound Care and Infection Prevention** - Regular dressing changes

**Monitoring for signs of infection**

**Ensuring adequate vascularization**

**Prevention and Management of Complications**

- **Phantom limb pain**
- **Neuromas**
- **Contractures**
- **Skin breakdown**

**Rehabilitation and Prosthetic Fitting**

- Early mobilization and physical therapy
- Desensitization techniques
- Strengthening residual limb muscles
- Custom prosthetic design fitting the residual limb

**Special Considerations in Limb Deficiencies** Addressing congenital limb deficiencies involves unique surgical and prosthetic approaches.

**Surgical Interventions**

- Limb lengthening procedures
- Osteotomies
- Soft tissue reconstructive surgeries

**Prosthetic and Assistive Technologies**

- Customized prosthetic devices for congenital deficiencies
- Use of myoelectric and advanced control systems
- Adaptive equipment for daily activities

**Advances in Surgical Techniques and Future Directions** The atlas highlights recent innovations such as:

- Minimally invasive amputation techniques
- Vascularized composite allotransplantation (hand and arm transplants)
- Bioprinting and regenerative medicine approaches
- Enhanced prosthetic interfaces with neural control

These advancements aim to improve functional outcomes, reduce complications, and restore limb function more effectively.

**4 Importance of Multidisciplinary Approach** Effective management of limb amputations and deficiencies requires collaboration among:

- Surgeons
- Rehabilitation specialists
- Prosthetists
- Psychologists
- Physiotherapists
- Social workers

This team approach ensures comprehensive care, addressing physical, psychological, and social aspects.

**Conclusion** The

atlas of amputations and limb deficiencies surgic serves as an indispensable guide for clinicians involved in limb salvage, amputation, and reconstruction. By combining detailed anatomical illustrations, surgical step-by-step techniques, and insights into postoperative care, it facilitates improved surgical outcomes and enhanced patient quality of life. Continuing advancements in surgical methods, prosthetic technology, and multidisciplinary care models promise a future where limb loss and deficiencies can be managed more effectively, restoring function and independence for affected individuals. -- - Keywords for SEO Optimization: - Atlas of amputations - Limb deficiencies surgical guide - Amputation techniques - Limb reconstruction surgery - Prosthetic fitting and management - Upper limb amputation - Lower limb amputation - Congenital limb deficiencies - Postoperative limb care - Advances in limb surgery - Rehabilitation after amputation QuestionAnswer What is the purpose of the 'Atlas of Amputations and Limb Deficiencies' in surgical practice? The atlas serves as a comprehensive visual guide for surgeons, detailing various amputation techniques and limb deficiency corrections to improve surgical outcomes and standardize procedures. How does the atlas assist in planning limb salvage versus amputation procedures? It provides detailed anatomical illustrations and guidelines that help surgeons evaluate the extent of tissue damage, choose appropriate surgical techniques, and consider limb preservation options when feasible. What are some of the latest trends highlighted in the atlas regarding surgical management of limb deficiencies? The atlas emphasizes advancements in minimally invasive techniques, targeted neurovascular interventions, and the integration of prosthetic fitting considerations into surgical planning. How can the atlas improve outcomes for patients with traumatic amputations? By offering detailed surgical approaches, optimal stump shaping, and preservation of functional anatomy, the atlas helps surgeons enhance prosthetic compatibility and patient mobility post- surgery. 5 Does the atlas include guidance on pediatric limb amputations? Yes, it features specialized chapters on pediatric cases, addressing unique anatomical considerations, growth-related factors, and tailored surgical techniques for children. Are there considerations for limb deficiency correction in congenital cases within the atlas? Absolutely, the atlas discusses surgical strategies for congenital limb deficiencies, focusing on functional improvement, limb lengthening procedures, and reconstructive options. How does the 'Atlas of Amputations and Limb Deficiencies Surgical' stay current with evolving surgical techniques? It incorporates recent research, technological innovations, and expert consensus to ensure surgeons have access to the latest best practices in limb amputation and deficiency management. **Atlas of Amputations and Limb Deficiencies Surgical: A Comprehensive Guide to Classification, Techniques, and Outcomes** The field of

limb amputation and deficiency management has evolved significantly over the past century, driven by advances in surgical techniques, prosthetic technology, and rehabilitation strategies. An essential resource in this domain is the *Atlas of Amputations and Limb Deficiencies Surgical*, which offers clinicians, surgeons, and researchers a detailed framework for understanding, classifying, and approaching these complex conditions. This comprehensive review aims to explore the key components of this atlas, emphasizing its clinical utility, classification systems, surgical techniques, and outcomes. --- **Introduction to Limb Amputations and Deficiencies** Limb amputation refers to the surgical removal of a limb or part of a limb, typically due to trauma, vascular disease, infection, or tumor. Limb deficiencies, on the other hand, involve congenital or acquired conditions where a limb is absent or underdeveloped. Both conditions present unique challenges requiring tailored surgical planning, rehabilitation, and prosthetic fitting. The primary goals of surgical intervention include: - Restoring function - Achieving pain relief - Facilitating prosthetic use - Improving psychosocial well-being Given the diversity of causes and presentations, a standardized approach to classification and surgery is vital for effective management. --- **Significance of an Atlas in Surgical Practice** An atlas serves as a visual and conceptual compendium, providing detailed illustrations, descriptions, and classifications. Its significance includes: - Ensuring consistency in terminology and surgical planning - Guiding surgeons through complex procedures - Facilitating education and training - Supporting research and comparative outcomes analysis The "*Atlas of Amputations and Limb Deficiencies Surgical*" integrates anatomical, pathological, and surgical perspectives, offering a systematic approach to these conditions. --- **Classification Systems in Limb Amputations** Effective classification underpins surgical decision-making, prosthetic design, and rehabilitation planning. Various systems have been developed, with some of the most recognized including:

- 2.1. **The ISPO (International Society for Prosthetics and Orthotics) Classification** The ISPO classification categorizes amputations based on:
  - Level of amputation: upper or lower limb
  - Specific anatomical level: e.g., transhumeral, transfemoral, below-knee, above-knee
  - Type of residual limb: e.g., transosseous, disarticulation
- 2.2. **The Tomono Classification** This system focuses on:
  - Type of deficiency: congenital vs. acquired
  - Extent of tissue involvement: osseous, muscular, neurovascular structures
  - Functional implications
- 2.3. **The Swanson Classification** Specially designed for congenital limb deficiencies, emphasizing:
  - Type of deficiency: longitudinal, transverse, mixed
  - Severity and functional prognosis

The atlas consolidates these systems, providing a hierarchical approach that aids in surgical planning and communication among clinicians. ---

**Surgical Techniques for Amputation** Surgical procedures are tailored to the level and nature of the limb loss or deficiency. The atlas details various techniques, emphasizing principles such as preserving optimal residual limb length, ensuring good wound healing, and optimizing prosthetic fitting.

**2.1. Upper Limb Amputations** Upper limb amputations are categorized based on the level:

- Partial hand amputations: finger or partial palm removal
- Wrist disarticulations: removal at the radiocarpal joint
- Transradial (below-elbow): through the radius and ulna
- Transhumeral (above-elbow): through the humerus
- Shoulder disarticulations and forequarter amputations

**Key surgical considerations:**

- Preservation of joint function where possible
- Maintaining length for improved prosthetic control
- Managing neurovascular structures to reduce neuroma formation

**2.2. Lower Limb Amputations** Common levels include:

- Toe and partial foot amputations for minor trauma or ischemia
- Syme's amputation: ankle disarticulation
- Below-knee (transtibial): preserving the knee joint
- Above-knee (transfemoral): removal through the femur
- Hip disarticulations and hemipelvectomy

**Surgical principles include:**

- Achieving a stable, well-healed residual limb
- Minimizing soft tissue trauma
- Ensuring proper alignment for prosthetic fitting

**2.3. Disarticulations and Special Techniques** Disarticulation procedures, such as shoulder and hip disarticulations, are performed in cases of extensive disease or trauma. Techniques involve:

- Carefully separating neurovascular bundles
- Preserving functional musculature
- Managing residual limb length for prosthetic use

The atlas provides detailed surgical illustrations, emphasizing soft tissue management and residual limb shaping.

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**Atlas Of Amputations And Limb Deficiencies Surgic**

**7 Management of Limb Deficiencies** Congenital limb deficiencies require a different surgical approach, often focusing on:

- Enhancing function
- Facilitating prosthetic use
- Correcting deformities

**2.1. Types of Congenital Deficiencies**

- Transverse deficiencies: limb is absent beyond a certain level
- Longitudinal deficiencies: absence or hypoplasia of specific bones or tissues within a limb

**2.2. Surgical Interventions** Procedures may include:

- Soft tissue lengthening
- Bone lengthening (distraction osteogenesis)
- Corrective osteotomies
- Muscle transfers

The atlas underscores the importance of early intervention and multidisciplinary coordination in managing these cases.

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**Postoperative Management and Rehabilitation** Successful surgical outcomes depend heavily on postoperative care:

- Wound care and infection prevention
- Residual limb shaping
- Pain management, including neuroma treatment
- Early mobilization and physiotherapy

**Psychosocial support** Rehabilitation aims to maximize functional independence, with prosthetic training being a cornerstone.

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**Outcomes and Complications** The atlas consolidates data on:

- Functional outcomes: mobility, dexterity, independence
- Prosthetic

integration: comfort, control, durability - Complications: wound infection, neuroma, phantom limb pain, skin breakdown Understanding these factors guides surgeons in optimizing techniques and improving patient quality of life. --- Future Directions and Innovations Emerging trends include: - Advanced prosthetic technologies: myoelectric control, osseointegration - Minimally invasive surgical techniques - Tissue engineering and regenerative medicine - 3D printing for custom residual limb sockets The atlas remains a dynamic resource, integrating new evidence and innovations to enhance surgical and rehabilitative care. --- Conclusion The Atlas of Amputations and Limb Deficiencies Surgical stands as an indispensable guide in the complex realm of limb loss and deficiency management. Its comprehensive classification systems, detailed surgical techniques, and outcome analyses foster consistency, improve surgical planning, and ultimately enhance patient quality of life. As technology and surgical methods advance, continuous updates to such an atlas are essential, ensuring clinicians are equipped with the most current knowledge and best practices. --- References - [Insert relevant references, textbooks, and journal articles]

Atlas Of Amputations And Limb Deficiencies Surgic 8 related to limb amputation, classification systems, surgical techniques, and outcomes.] Author's Note: This article aims to synthesize the core principles and current practices outlined in the atlas, emphasizing its role in standardizing and advancing limb amputation and deficiency management globally. amputation levels, limb prosthetics, congenital limb deficiencies, surgical techniques, limb salvage, postoperative rehabilitation, limb ischemia, nerve injuries, vascular surgery, orthopedic surgery

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now in one convenient volume atlas of amputations and limb deficiencies surgical prosthetic and rehabilitation principles fifth edition remains the definitive reference on the surgical and prosthetic management of acquired and congenital limb loss developed in partnership with the american academy of orthopaedic surgeons aaos and edited by joseph ivan krajbich md frcs c michael s pinzur md faaos col benjamin k potter md faaos facs and phillip m stevens med cpo faaop it discusses the most recent advances and future developments in prosthetic technology with in depth treatment and management recommendations for adult and pediatric conditions with coverage of every aspect of this complex field from recognized experts in amputation surgery rehabilitation and prosthetics it is an invaluable resource for surgeons physicians prosthetists physiatrists therapists and all others with an interest in this field

the leading and definitive reference on the surgical and prosthetic management of acquired and congenital limb loss the fourth edition of the atlas of amputations and limb deficiencies is written by recognized experts in the fields of amputation surgery rehabilitation and prosthetics

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conditions this text is a valuable guide and treatment overview for surgeons physicians prosthetists physiatrists therapists and those with an interest in this field use this expanded and completely updated resource to help you and your treatment team understand and select the best current approaches for your patients publisher s website

presents the major advances in the field since the last edition in 1992 new chapters cover amputee care in wartime the role of the krukenberg procedure in developing countries the rise of the amputee consumer movement and the rapidly expanding role of sports and recreation for amputees as well as the more controversial topics of osseointegration and transplantation the major influence of orthopaedic surgeons in the development of both amputation surgery and prosthetics is noted in the greatly expanded chapter on the history of these fields a chapter on absence of the lumbar spine and sacrum has been added as well as a chapter on surgical revision

limb loss can occur due to trauma infection diabetes vascular disease cancer and other diseases regardless of the cause it often has a profound impact on a person s life many amputees experience feelings of loss and grief frustration in learning to walk with an artificial limb and difficulty adjusting to a new and challenging lifestyle this book provides the practical knowledge needed to cope with the many changes caused by lower limb amputation in clear accessible language it covers the medical physical and psychosocial issues and answers crucial questions such as how do i cope emotionally with the loss of a limb what steps can i take to prevent additional amputations how do i treat and care for my post surgery wound what are the best prostheses for my particular needs can i play sports and exercise with a prosthesis and much more this unique resource aims to educate those with lower limb amputation so that they can better care for themselves and maximize their independence the practical advice tips and extensive references within its pages will help individuals meet the challenges of leading full and fruitful lives

the majority of amputations in the western world today are due to vascular disease despite the advances in surgical treatment of this disease particularly by reconstruction it is a sad fact that the number of amputations performed in these countries each year for vascular disease is increasing most of these amputees are elderly and their life expectancy is short so it is important that the treatment and rehabilitation that they receive is informed appropriate efficient and swift to enable them to return successfully to life in the community for their remaining years management of this group of patients has proved to be successful only if a multidisciplinary team approach is adopted until recently in the uk this approach sadly has

only been implemented by a few centres however with the publication of the mccoll report into the prosthetic and wheelchair service in 1986 interest in the care of the amputee is growing throughout the country this book covers all aspects of amputation from disease and diagnosis to rehabilitation and community discharge with emphasis on the man agerneut of the largest group the vascular lower limb amputee a team approach is described and emphasized as being essential for good results and subsequent successful return into the community the role of each of the important disciplines is described in relation to the appropriate part of the rehabilitation phase

this new edition of the atlas of amputations and limb deficiencies is written by recognized experts in the fields of amputation surgery rehabilitation and prosthetics discover the best in contemporary thinking the most recent advances and future developments in prosthetic technology with in depth treatment and management recommendations for adult and pediatric conditions this text is a valuable guide and treatment overview for surgeons physicians prosthetists physiatrists therapists and those with an interest in this field use this expanded and completely updated resource to help you and your treatment team understand and select the best current approaches for your patients publisher s website

the primary initial effort in every case of disease or injury should be to save the extremity amputation is seldom necessary following bone and joint injuries more often it is an admission of defeat in the medical management of the patient with vascular disease in such cases it should be performed only as a last resort the longest possible lever arm consistent with primary healing should be maintained for maximum proprioceptive and kinesthetic feedback and thus rehabilitation potential

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the main objective in the rehabilitation of people following amputation is to restore or improve their functioning which includes their return to work full time employment leads to beneficial

health effects and being healthy leads to increased chances of full time employment ross and mirowskay 1995 employment of disabled people enhances their self esteem and reduces social isolation dougherty 1999 the importance of returning to work for people following amputation the fore has to be considered perhaps the first article about reemployment and problems people may have at work after amputation was published in 1955 boynton 1955 in later years there have been sporadic studies on this topic greater interest and more studies about returning to work and problems people have at work following amputation arose in the 1990s and has continued in recent years burger and marinc ek 2007 these studies were conducted in different countries on all the five continents the greatest number being carried out in europe mainly in the netherlands and the uk burger and marinc ek 2007 owing to the different functions of our lower and upper limbs people with lower limb amputations have different activity limitations and participation restrictions compared to people with upper limb amputations both have problems with driving and carrying objects people with lower limb amputations also have problems standing walking running kicking turning and stamping whereas people with upper limb amputations have problems grasping lifting pushing pulling writing typing and pounding giridhar et al 2001

limb loss can occur due to trauma infection diabetes vascular disease cancer and other diseases lower limb amputation is relatively common and has a profound impact on a person's life regardless of the cause feelings of loss and grief difficulties in learning to walk with an artificial limb and readjustment to an interrupted life all pose considerable challenges nevertheless there are countless stories of people who have successfully overcome these problems this book provides the practical knowledge needed to cope with the life changes caused by lower limb amputation it demystifies the medical process and technical jargon by using plain easily understandable language and it is the first book to combine medical prosthetic and psychosocial factors in one convenient volume including causes of lower limb amputation especially diabetes and ways to prevent further amputation surgical techniques for lower limb amputation learning to walk with a prosthesis the unique challenges faced by children and elderly people living with an amputation exercising and sports with a lower limb prosthesis and much more the outlook of this book is ultimately an optimistic one well informed knowledgeable individuals with amputations are better able to take care of themselves and are more effective self advocates this book gives them the tools they need to forge a productive satisfying and high quality life

a case based text now with terminology consistent with the apta's guide to physical therapist

practice uses a holistic approach to the management of individuals with amputations concise yet comprehensive it discusses traumatic amputations juvenile amputees and the management of individuals with peripheral vascular diseases the 2nd edition reviews the latest technological advances in prosthetic fabrication and provides information on relevant websites

written by experienced physiatrists prosthetists and therapists this book provides an introduction to the field of amputee care and prosthetics dedicated chapters guide you through prescription of prostheses for the various levels and types of amputations in both the lower and upper extremity and address recent advances in functionality and safety pre and post operative care prosthetic troubleshooting gait issues and medical management of the residual limb are also addressed with concise key information highlighted throughout this handbook is a welcome point of care resource or study tool for trainees and practitioners in any field who work with amputees to restore function and help enrich the lives of these individuals fundamentals of amputation care and prosthetics features concise practical manual covers the basics of upper and lower extremity amputee care and prosthetics succinct presentation well illustrated information is easy to find portable perfect for use on rounds or in the clinic state of the art distillation of current thinking and practice excellent transitional book for residents or ready reference for experienced practitioners

lower limb prosthetics and orthotics clinical concepts is a comprehensive overview of lower limb prosthetics and orthotics covering normal and pathological gait lower limb biomechanics clinical applications as well as prosthetic and orthotic designs and components joan edelstein and alex moroz have written lower limb prosthetics and orthotics with the clinician's perspective in mind clinical management is incorporated throughout the text including basic surgical concepts postoperative management preprosthetic care and training in the use of devices additionally this text incorporates unique features relevant to physicians such as prescription writing and prosthetic and orthotic construction and modification as well as the latest research regarding energy consumption and long term utilization of prostheses chapters include orthotics in neuromuscular diseases orthotics in pediatrics functional expectations gait and activities training transtibial and transfemoral prostheses and components transtibial and transfemoral biomechanics evaluation and gait analysis disarticulations and bilateral amputations with over 150 line drawings and photographs to supplement the text lower limb prosthetics and orthotics clinical concepts is ideal for clinicians in the fields of physical medicine and rehabilitation orthopedics vascular surgery physical

therapy and occupational therapy

each year in the united states an estimated 40 000 persons lose a limb of these amputees approximately 30 lose a hand or an arm this loss is most frequently related to trauma occurring in the healthy young adult male and is often work related approximately 3 of all amputees are born with congenital limb absence in children the ratio of congenital to acquired amputation is 2 1 and the ratio of upper limb to lower limb amputees is 1 2 1 therefore since relatively few amputations result in upper limb loss only a small number of health practitioners even those specializing in amputee rehabilitation have the opportunity to provide services for a significant number of arm amputees as a result clinicians need to share their experiences so that the full range of options for optimum care and rehabilitation of the patient population may be considered to meet this challenge for wider communication of clinical experience a group of upper limb amputee specialists met in houston texas in 1981 to serve as the core faculty for a course entitled contemporary issues in upper extremity amputation and prosthetic function this program provided the opportunity for surgeons physiatrists engineers prosthodontists social workers psychologists occupational therapists and physical therapists from the united states and canada to discuss their extensive experience in working with upper extremity amputees a second conference continuing the discussion of upper limb amputee rehabilitation was held one year later

amputation surgical practice and patient management provides a complete text for good surgical technique for amputation and sensible management of amputees the editors have brought together a team in association with the international society of prosthetics and orthotics of internationally respected surgeons orthotists and prosthodontists to produce a book aimed at the promotion of good amputation practice throughout the world written for general orthopaedic and vascular surgeons amputation surgical practice and patient management provides good advice on how to avoid amputation where at all possible where no alternative exists the surgical techniques for all types of amputation in the upper and lower limbs are described clearly along with relevant biomechanics and prosthetics

prosthetic restoration and rehabilitation of the upper and lower extremity is a well illustrated state of the art reference on the science and practice of post amputation care prosthetic restoration and functional rehabilitation designed to maximize patient independence and quality of life chapters are written by physiatrists prosthodontists surgeons and therapists at the university of michigan clinicians and teachers who work with amputees on a daily basis clinically oriented it covers both lower and upper extremity restoration and rehabilitation and

serves as a handy reference for busy practitioners to support sound clinical decision making beginning with basic anatomy kinesiology and a recap of surgical decisions principles and post operative care for amputees the book discusses biomechanics clinical assessment prosthetic options how to write a complete and detailed prescription for the prosthesis restoration and management of specific problems by region and rehabilitation programs and strategies common medical issues such as phantom limb sensation and pain skin problems and sexual and psychological considerations are discussed as well in depth coverage of prosthetic restoration is provided for special populations such as infants children the elderly athletes multi extremity amputees and those who have lost limbs to cancer chapters are written in expanded outline format for ease of use and feature numerous full color diagrams photos and other illustrations this text will guide physicians trainees and other members of the care team through the fundamentals of restoring function to individuals who have lost limbs or body parts key features provides a state of the art accessible clinical approach to post amputation care prosthetic restoration and functional rehabilitation covers both upper and lower extremities addresses prostheses for special populations and sports and recreation includes boxed clinical pearls at the start of each chapter illustrated quick reference tables and full color photos throughout supports clinical decision making and addresses practical questions and problems advises on new requirements for medicare and medicaid patients and includes patient education materials and sample prescription forms that can be customized for use in any clinic outlines important information for returning to the community after amputation

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