



## Case report

## Intravenous immunoglobulin in necrotizing fasciitis – A case report and review of recent literature

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## HIGHLIGHTS

- Necrotizing fasciitis (NF) is an inflammatory disease, which causes local tissue destruction up to lethal septic shock.
- We describe the case of a 33-year-old male patient representing an NF of his left leg.
- After non-responding to established broad anti-infective treatment, the patient received immunoglobulin (IVIg).
- The presented case suggests that IVIg treatment of patients with NF might be considered in case of critically ill patients.

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## ABSTRACT

**Introduction:** Necrotizing fasciitis (NF) is an inflammatory disease of the soft tissue, which causes local tissue destruction and can lead to lethal septic shock. The therapy consists of early surgical treatment of the septic focus and an accompanying broad spectrum antibiotic therapy. Recent literature considers the additional use of immunoglobulin therapy in severe soft skin and tissue infections.

**Presentation of case:** In this report, we describe the case of a 33-year-old male patient treated at a university hospital intensive care unit because of an NF of his left leg. The patient rapidly developed a complicated septic disease after a minor superficial trauma. Despite intense microbiological diagnosis, no causative pathogens were identified. After non-responding to established broad anti-infective treatment, the patient received intravenous immunoglobulin, that rapidly improved his clinical condition.

**Discussion:** NF represents a disease processes, which is characterized by fulminant, widespread necrosis of soft tissue, systemic toxicity, and high mortality (>30%). Beside the surgical debridement and broad spectrum antibiotic therapy IVIg therapy might be an additional option in the treatment of NF. But the current literature supporting the use of IVIg in NF is largely based on retrospective or case-controlled studies, and only small randomized trials.

**Conclusion:** The demonstrated case suggests that IVIg treatment of patients with NF can be considered in case of hemodynamic unstable, critically ill patients. Although randomized controlled trials are missing, some patients might benefit from diminishing hyperinflammation by immunoglobins.

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## 1. Introduction

Necrotizing fasciitis (NF) is defined as a rapidly expanding infection of fascia and subcutaneous tissue [1]. In general, the NF can occur ubiquitously in soft tissues, but most common areas of expansion are the extremities and in particular the lower legs [2].

Even trunk, abdomen, head, neck area, or anal region are often infected after surgery [3]. Common triggers are trivial trauma, burns, surgery, decubital ulcers, perirectal abscesses or Fournier's gangrene [4]. Risk factors for NF include diabetes mellitus, immunosuppression, malnutrition, age, intravenous drug misuse, peripheral vascular disease, renal failure, malignancy, and obesity [5]. Patients with NF usually present severe pain around the affected area and signs of skin infection (erythema, swelling, oedema, subcutaneous plaques, or surface nodes) [6]. These physical findings may rapidly evolve into a haemorrhagic infarction of the subcutis, the fascia and the dermis with the formation

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# **Review Open Access Necrotizing Fasciitis Literature**

**Mark Davies, Rajesh  
Botchu, Karthikeyan. P. Iyengar**



## **Review Open Access Necrotizing Fasciitis Literature:**

**Proceedings of 20th International Conference on Pediatrics & Primary Care 2018** ConferenceSeries,2018-08-27  
September 03 04 2018 Zurich Switzerland Key Topics Pediatrics Primary Care Pediatrics Primary neonatal care Pediatric  
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Clinical Pediatrics Pediatric Infectious Diseases      *Pathogenic Bacteria* Sahra Kirmusaoglu,Sonia Bhonchal

Bhardwaj,2020-12-09 Pathogenic bacteria are the main problem in hospital and community acquired infections As bacteria  
continue to develop more resistance to antibiotics it is imperative to develop antibacterial treatment strategies Written by  
experts from all over the world this book examines pathogenic bacteria and their link to multidrug resistance Over thirteen  
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**Competency-Based Companion E-Book** Barry D. Mann,2008-05-01 Designed to teach you to think like an experienced  
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and much more      *Cummings Otolaryngology - Head and Neck Surgery E-Book* Paul W. Flint,Bruce H. Haughey,K. Thomas

Robbins, Valerie J. Lund, J. Regan Thomas, John K. Niparko, Mark A. Richardson, Marci M. Lesperance, 2010-03-09 Through four editions Cummings Otolaryngology has been the world's most trusted source for comprehensive guidance on all facets of head and neck surgery This 5th Edition edited by Paul W Flint Bruce H Haughey Valerie J Lund John K Niparko Mark A Richardson K Thomas Robbins and J Regan Thomas equips you to implement all the newest discoveries techniques and technologies that are shaping patient outcomes You'll find new chapters on benign neoplasms endoscopic DCR head and neck ultrasound and trends in surgical technology a new section on rhinology and coverage of hot topics such as Botox Plus your purchase includes access to the complete contents of this encyclopedic reference online with video clips of key index cases Overcome virtually any clinical challenge with detailed expert coverage of every area of head and neck surgery authored by hundreds of leading luminaries in the field See clinical problems as they present in practice with 3 200 images many new to this edition Consult the complete contents of this encyclopedic reference online with video clips of key index cases Stay current with new chapters on benign neoplasms endoscopic DCR head and neck ultrasound and trends in surgical technology a new section on rhinology and coverage of hot topics including Botox Get fresh perspectives from a new editorial board and many new contributors Find what you need faster through a streamlined format reorganized chapters and a color design that expedites reference Imaging of the Shoulder Mark Davies, Rajesh Botchu, Karthikeyan. P. Iyengar, 2025-06-08

This volume provides an up to date and comprehensive review of Imaging of the Shoulder In the first part of the book the various techniques employed when imaging the shoulder are discussed in detail Individual chapters are devoted to radiography computed tomography ultrasound and MRI The second part then highlights the application of these techniques to the diverse diseases encountered in the shoulder region Among the many topics addressed are congenital and developmental abnormalities trauma metabolic bone disease infection arthritis and tumors Each chapter is written by an acknowledged expert in the field and a wealth of illustrative material is included This book will be of great value to radiologists orthopedic surgeons and other clinicians with an interest in the shoulder pathology **Feigin and Cherry's**

**Textbook of Pediatric Infectious Diseases - E-Book** James Cherry, Sheldon L. Kaplan, Gail J. Demmler-Harrison, William Steinbach, Peter J. Hotez, John V Williams, 2024-08-29 Selected for 2025 Doody's Core Titles in Pediatrics Widely considered the premier text in pediatric infectious diseases Feigin and Cherry's Textbook of Pediatric Infectious Diseases 9th Edition provides authoritative up to date coverage of this rapidly changing field Extensively revised by Drs James Cherry Sheldon L Kaplan Gail J Demmler Harrison William J Steinbach Peter J Hotez and new editor John V Williams this two volume reference delivers the information you need on epidemiology public health preventive medicine clinical manifestations diagnosis treatment and much more It serves as a reliable everyday resource for practicing ID specialists and an invaluable reference for medical students residents and fellows in ID pediatricians and internists and others who work with neonates children and adolescents or in public health Discusses infectious diseases according to organ systems that may be affected as well as

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Few clinical disciplines have been transformed so dramatically by advancements in science and technology as gastrointestinal surgery To begin with modern pharmacology has virtually eliminated some kinds of surgery altogether If one were to take a peek at a typical operating room schedule in a busy hospital of the 1960s gastrectomies of one kind or another would have constituted a large block of the major surgeries The advent of effective H<sub>2</sub> histamine receptor antagonists and more recently the H<sup>+</sup>K ATPase proton pump inhibitors led to a precipitous decline in those procedures such that they are rarely performed today Exciting new approaches to treating inflammatory bowel diseases and their complications such as fistulas with anticytokine therapy may one day have a similarly profound effect on surgery for this condition as well Beyond pharmaceuticals advances in imaging techniques have greatly facilitated the identification and characterization of pathology in the gastrointestinal tract in a way that would have been unimaginable only a few years ago Just to visualize the pancreas in some way was a horrendous task until abdominal ultrasound magnetic resonance imaging or computer tomography made it simple The fact that the gut is a hollow organ that can be accessed through the mouth anus or even through the wall of the abdomen has been fully exploited with fiberoptic endoscopes that can bend around corners with ease and permit surgery to be conducted through them *Imaging for Reconstructive Microsurgery* Joon Pio Hong,Bernard T. Lee,Akitatsu

Hayashi,Giuseppe Visconti,2024-11-18 Imaging in Reconstructive Microsurgery represents the first book in its kind the the Plastic Surgery and Reconstructive Microsurgery Community This books includes all the imaging modalities available for plastic and reconstructive surgeons which adds major steps in the daily clinical practice Most of these imaging modalities can and should be used by the operating surgeon her himself to exponentially enhance and empower the clinical practice This book provides step by step description of all the state of art imaging modalities for both perforator flap and lymphatic surgery with the aim to provide a daily reference to colleagues who are novel to these procedures and for those who are looking forward to improve their practice Incorporating imaging technology in clinical practice represents a paradigm shift in daily clinical practice with major enhancement of safety minimal invasiveness and creativity finally leading to a next generation reconstructive approach We believe that those imaging modalities will guide us to the future of microsurgery and

super microsurgery This book will be the beginning of reader s new journey      *Complications in Gynecological Surgery*  
Peter O'Donovan,2008-10-30 Risk management is a relatively new process that can sometimes evoke feelings of suspicion among clinicians However when used proactively it offers the opportunity to act at the root cause of an incident to expose deficiencies in the system rather than in individuals This process encourages a supportive approach to patients relatives and staff The overall aim should be to learn lessons rather than to attribute blame References 1 Vincent C Neale G Woloshynowych M Adverse events in British hospitals a preliminary retrospective record review Br Med J 2001 322 517 519 2 Neale G Woloshynowych M Vincent C Exploring the causes of adverse events in NHS hospital practice J R Soc Med 2001 94 322 330 3 Walshe K The development of clinical risk management In Vincent C ed Clinical Risk Management London BMJ Publishing Group 2001 p 45 60 4 Department of Health An Organization with a Memory London HMSO 2000 5 National Patient Safety Agency Reporting incidents Available at <http://www.npsa.nhs.uk/health/reporting> Assessed June 25 2007 6 National Confidential Enquiry into Perioperative Deaths Changing the way we operate The 2001 Report of the National Confidential Enquiry into Perioperative Deaths London National Confidential Enquiry into Perioperative Deaths 2001 Available at <http://www.ncepod.org.uk> Assessed June 25 2007 7 General Medical Council Good Medical Practice London General Medical Council 2006 Available at [http://www.gmc-uk.org/guidance/good\\_medical\\_practice/index.asp](http://www.gmc-uk.org/guidance/good_medical_practice/index.asp)

**Operative Obstetrics & Gynecology**  
Narendra Malhotra,2014-05-30 This second edition has been fully revised to provide practising clinicians and trainees with the most recent advances in the field of operative obstetrics and gynaecology Divided into four sections the book provides in depth coverage of general principles of surgery followed by chapters on surgery for specific disorders in obstetrics and then gynaecology The final section examines recent advances including laser therapy and robotic surgery Each topic describes preoperative and postoperative care as well as the actual procedure Associated topics such as anaesthesia operating theatre requirements management of infection and blood transfusions are also discussed in detail This new edition includes more than 900 clinical photographs diagrams and tables as well as eight DVD ROMs demonstrating surgical procedures Key points Fully revised new edition providing clinicians and trainees with latest developments in operative obstetrics and gynaecology Recent advances section covers laser therapy and robotic surgery Includes eight DVD ROMs demonstrating procedures Previous edition published in 2009

**Sleisenger and Fordtran's Gastrointestinal and Liver Disease E-Book** Mark Feldman, Lawrence S. Friedman, Lawrence J. Brandt,2020-06-09 For nearly 50 years Sleisenger Fordtran s Gastrointestinal and Liver Disease has been the go to reference for gastroenterology and hepatology residents fellows physicians and the entire GI caregiving team Now in a fully revised 11th Edition this two volume masterwork brings together the knowledge and expertise of hundreds of global experts who keep you up to date with the newest techniques technologies and treatments for every clinical challenge you face in gastroenterology and hepatology A logical organization more than 1 100 full color illustrations and easy to use algorithms ensure that you ll quickly and easily find the information you need Features new and

expanded discussions of chronic hepatitis B and C Helicobacter pylori infection colorectal cancer prevention through screening and surveillance biologic agents and novel small molecules to treat and prevent recurrences of inflammatory bowel disease IBD gastrointestinal immune and autoimmune diseases and more Offers reliable coverage of key topics such as Barrett's esophagus gut microbiome enteric microbiota and probiotics fecal microbiota transplantation and hepatic pancreatic and small bowel transplantation Provides more quick reference algorithms that summarize clinical decision making and practical approaches to patient management Employs a consistent templated format throughout for quick retrieval of information Includes monthly updates online as well as more than 20 procedural videos Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices

**Oral and Maxillofacial Surgery for the Clinician** Krishnamurthy

Bonanthaya, Elavenil Panneerselvam, Suvy Manuel, Vinay V. Kumar, Anshul Rai, 2021-02-14 This is an open access book with CC BY 4.0 license This comprehensive open access textbook provides a comprehensive coverage of principles and practice of oral and maxillofacial surgery With a range of topics starting from routine dentoalveolar surgery to advanced and complex surgical procedures this volume is a meaningful combination of text and illustrations including clinical photos radiographs and videos It provides guidance on evidence based practices in context to existing protocols guidelines and recommendations to help readers deal with most clinical scenarios in their daily surgical work This multidisciplinary textbook is meant for postgraduate trainees young practicing oral surgeons and experienced clinicians as well as those preparing for university and board certification exams It also aids in decision making the implementation of treatment plans and the management of complications that may arise This book is an initiative of Association of Oral and Maxillofacial Surgeons of India AOMSI to its commitment to academic medicine As part of this commitment this textbook is in open access to help ensure widest possible dissemination to readers across the world

**General Surgery III** Ömer ALABAZ, 2022-03-28

**Acute Care Surgery** LD

Britt, Andrew Peitzman, Phillip Barie, Gregory Jurkovich, 2012-10-16 Acute Care Surgery is a comprehensive textbook covering the related fields of trauma critical care and emergency general surgery The full spectrum of Acute Care Surgery is expertly addressed with each chapter highlighting cutting edge advances in the field and underscoring state of the art management paradigms In an effort to create the most definitive reference on Acute Care Surgery an evidence based approach is emphasized for all content included Also notable controversies are discussed in detail often accompanied by data driven resolutions

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A. Dietz, René H. Fortelny, Ulf Petersson, Frederik Berrevoet, 2021-08-09

**Ürolojik ve Nefrolojik Aciller** Aslı

ŞENER, Neslihan SILIV, 2021-06-28

**Cumulated Index Medicus**, 1996

**Surgical Infections** Evangelos P.

Misiakos, Konstantinos George Tsalis, 2018-05-23 Surgical infections are caused by the breakdown of the equilibrium existing between organisms and the host This may occur after a breach in a protective surface as occurs after surgical trauma

changes in host resistance or particular characteristics of the organism The possible outcomes are abscess formation local spread with without tissue death distant spread or resolution A surgical infection is an infection requiring operative treatment excision or drainage and occupies an unvascularized space in tissue or may occur in an operated site Common examples of the former group are furuncles and carbuncles hollow viscus inflammations such as appendicitis cholecystitis and most abscesses The latter group comprises all surgical site infections This Research Topic provides comprehensive information on the biology mechanisms prevention and treatment of surgery related infections *Vibrionaceae Diversity, Multidrug Resistant and Management* Learn-Han Lee, Pendru Raghunath, 2018-05-10 Vibrio are Gram negative bacteria that naturally inhabit riverine estuarine and marine aquatic environments Some Vibrio are known to be capable of causing gastroenteritis wound infections cholera and fatal septicemia in severe cases Over the past decades research on Vibrio has increased and has caused a great development in our knowledge of these pathogens Focus of this research includes the discovery of emerging epidemic clones the traits of new strains and the occurrence of multidrug resistant strains in the ecology Moreover improved understandings of the prevalence pathogenesis and evolution of Vibrio have revealed the significant role of these pathogens in enhancing disease transmission The complete genomic sequences of Vibrio have been determined in providing a rich set of data illuminating the metabolic versatility of the species This book is dedicated to improving our knowledge and understanding not solely focusing into the prevalence detection pathogenesis virulence pandemic clones and multidrug resistance but also looking at the management of the multidrug resistance through different strategies such as non antibiotic resistant strategies that involved the application of knowledge in bacteriophages *The Year Book of Surgery* Edward M. Copland, 1999



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