

Long Term Results of Arterial Revascularization with Omniflow II® Biosynthetic Grafts: A Single Center Experience

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Abstract

Aim: The aim of this study is to analyze the long-term outcomes of above-knee femoro-popliteal bypass procedures with Omniflow® II biosynthetic grafts. Primary patency and graft related complications were the end points of the study.

Methods: Between January 2012 and January 2021, a total of 50 patients (42 males, 8 females) were revascularized using an in-situ Omniflow® II graft. Demographic, clinical, operative and postoperative characteristics of the patients were analyzed retrospectively.

Results: Mean age was 63.8 ± 10.1 (range 40-82) years. Fifty above-knee femoropopliteal bypass procedures were performed. Four patients (8%) were operated on due to a previous vascular graft infection where 8 (16%) were operated on due to a previous occlusion. Primary patency rate was 88%. Early graft thrombosis occurred in 2 (4%) patients where late graft stenosis unrelated to the anastomotic sites was encountered in 1 (2%) patient. An endarterectomy on either the proximal or distal site of the anastomosis were performed in 12 (24%) patients. Mean follow-up was 32.9 ± 20.8 (range 12-90) months. Three (6%) patients died due to a COVID-19 infection. No graft infection nor mortality related to arterial bypass procedures was encountered.

Conclusion: The Omniflow® II biosynthetic graft provides superior results in treatment of above-knee femoro-popliteal bypass procedures with high patency rates and low incidence of graft infection and aneurysm formation.

Keywords: Biosynthetic graft, vascular grafting, revascularization, peripheral arterial disease

1. Introduction

Patients with peripheral arterial disease (PAD) have a poor circulation due to decreased arterial perfusion. The arterial blood flow to the distal extremity is restricted most frequently by systemic atherosclerosis. Its prevalence is 3-10% between 40-59 years and 15-20% over 70 years¹. The most significant risk factors for PAD are diabetes mellitus (DM), hypertension (HT), hyperlipidemia (HL), chronic kidney disease (CKD), and smoking². In addition, there is an increased rate of myocardial infarction, ischemic stroke, and cardiovascular death in patients with PAD³.

There is a remarkable elevated risk of adverse limb events like ischemic ulceration and gangrene unless treated. Revascularization deemed mandatory, particularly in patients with more advanced symptoms and presentations. Duplex ultrasonography, computed tomography angiography (CTA), magnetic resonance angiography or conventional peripheral angiography should be performed to diagnose and define the anatomy before revascularization. Though endovascular approaches have extended the invasive treatment modalities in peripheral arterial occlusive disease, surgical interventions must be considered especially for long occlusive disease, aneurysm formation, vascular graft infection and failure of endovascular treatment.

Despite the fact that superiority of the autogenous grafts are well-known, prosthetic grafts should be the selected conduit type in a variety of patients especially when autogenous grafts are not accessible, available or suitable⁴. Since 1983, the Omniflow® vascular grafts have been in clinical practice and advances in technology throughout this time period led to the current Omniflow® II vascular graft (OVG)⁵⁻⁷. Omniflow® II (Bio Nova International, Victoria, Australia) is created by using cross linked ovine collagen and an endoskeleton made of polyester mesh which

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Long Term Results Of Arterial Interventions

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Long Term Results Of Arterial Interventions:

Long-Term Results of Arterial Interventions Alain Branchereau, MD, Michael Jacobs, MD, 1997-10-07 This volume is particularly valuable as a current standard reference. It covers all the major vascular operations: carotid endarterectomy, aortoiliac reconstructions and infrainguinal bypasses in situ and reversed vein Dacron and PTFE prosthetic thoracic and abdominal bypasses matching each to its competing endovascular procedure. In addition, it provides excellent long-term data on such less common procedures as internal carotid bypass, vertebral artery revascularization, adjunctive procedures to enhance the patency of infrainguinal prosthetic bypass and percutaneous intentional extraluminal revascularization. Finally, this framework is reinforced by in-depth chapters on current non-interventional management, surveillance programs to enhance long-term patency and the ultimate challenge for all practicing vascular surgeons: the management of infected aortic grafts. Such clear, comprehensive and current analysis should be of considerable and on-going value both by helping vascular surgeons to make more effective decisions and to more knowledgeably discuss functional results, complication risks, life expectancy and surgical outcome issues with the patient and family. **Complex Cases in Peripheral Vascular**

Interventions Martin Schillinger, Erich Minar, 2010-06-15 This new title provides a systematic review of complex cases in peripheral vascular interventions. PVI: a minimal invasive endovascular approach to treating peripheral arteries. This increasingly evolving area in interventional therapies offers reduced risk for complications compared to conventional surgery and takes advantage of advanced techniques. *Year Book of Vascular Surgery 2012* Gregory L. Moneta, 2012-11-01 The Year Book of Vascular Surgery brings you abstracts of the articles that reported the year's breakthrough developments in vascular surgery carefully selected from more than 500 journals worldwide. Expert commentaries evaluate the clinical importance of each article and discuss its application to your practice. There's no faster or easier way to stay informed. Hot topics include Coronary Disease, Epidemiology, Vascular Laboratory and Imaging, Carotid and Cerebrovascular Disease and Grafts and Graft Complications. Image-Guided Interventions E-Book Matthew A. Mauro, Kieran P.J. Murphy, Kenneth R. Thomson, Anthony C. Venbrux, Robert A. Morgan, 2013-09-09 2014 BMA Medical Book Awards Highly Commended in Radiology category. Image Guided Interventions, a title in the Expert Radiology Series, brings you in-depth and advanced guidance on all of today's imaging and procedural techniques. Whether you are a seasoned interventionalist or trainee, this single volume medical reference book offers the up-to-the-minute therapeutic methods necessary to help you formulate the best treatment strategies for your patients. The combined knowledge of radiology experts from around the globe provides a broad range of treatment options and perspectives, equipping you to avoid complications and put today's best approaches to work in your practice. The authors and editors have succeeded in providing a book that is both useful, instructive and practical. Reviewed by RAD Magazine March 2015. Formulate the best treatment plans for your patients with step-by-step instructions on important therapeutic radiology techniques as well as discussions on equipment, contrast agents, pharmacologic agents, antiplatelet

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Cardiovascular Interventions in Clinical Practice Jürgen Haase,Hans-Joachim Schäfers,Horst Sievert,Ron Waksman,2010-04-01 Until the publication of this exciting volume new treatment modalities in the rapidly growing field of interventional cardiology were described based on individual research findings Now a multidisciplinary team of international experts puts catheter based treatment techniques in context by exploring the pathobiology of specific diseases alongside a discussion of imaging tools and functional tests and a comparison to alternative treatment approaches provided by cardiovascular surgery This comprehensive overview of interventional cardiology represents a landmark in the field

Peripheral and Cerebrovascular Intervention Deepak L. Bhatt,2011-11-20 Peripheral and Cerebrovascular Intervention draws upon experts from diverse fields to provide readers with a comprehensive foundation for understanding and performing endovascular procedures from the basic steps to the most current and advanced techniques Individual chapters focus on primary intervention sites including lower extremity renal mesenteric subclavian upper extremity carotid vertebral intracranial and venous interventions Additionally chapters covering critical limb ischemia and abdominal and thoracic aortic aneurysms are included By incorporating valuable clinical information such as indications contraindications complications and discussions of surgical techniques and procedures this book is a valuable resource for the busy practitioner and will be of interest to all interventional and general cardiologists radiologists and neurologists vascular surgeons internists and residents and fellows

Endovascular Intervention for Vascular Disease Matt M. Thompson,Robert A. Morgan,Jon S. Matsumura,Marc Sapoval,Ian M. Loftus,2007-12-22 Historically vascular disease has been treated by a combination of open surgical procedures and medical management Since the first description of a percutaneous procedure to dilate diseased lower limb arteries the treatment of vascular disease has changed Endovascular Intervention for Vascular Disease Principles and Practice offers a diverse a

Rutherford's Vascular Surgery E-Book Jack L. Cronenwett,K. Wayne Johnston,2014-03-12 Published in association with the Society for Vascular Surgery Rutherford s Vascular Surgery presents state of the art updates on all aspects of vascular health care Extensively revised by many new

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Cardiovascular Catheterization and Intervention Debabrata Mukherjee, Eric R. Bates, Marco Roffi, Richard A. Lange, David J. Moliterno, 2017-09-11 Interventional cardiology refers to the catheter based treatment of cardiovascular diseases and is one of the fastest growing fields in medicine This updated text addresses recent advances in structural heart interventions in particular aortic and mitral valve procedures The advent of newer technologies presents both opportunities and challenges for the cardiologist to treat patients optimally Interventional cardiologists are now at the forefront of peripheral and structural heart interventions This new edition focuses on tailoring treatment to individual patients taking into account specific risk factors and comorbidities and appropriate use of devices This second edition also provides useful tools such as treatment algorithms evidence tables charts tables and illustrations to enhance the value of this volume as a practical reference tool The online edition also includes several how to videos

Oxford Textbook of Vascular Surgery Matthew M. Thompson, Robert Fitridge, Jon Boyle, Matt Thompson, Karim Brohi, Robert J. Hinchliffe, Nick Cheshire, A. Ross Naylor, Ian Loftus, Alun H. Davies, 2016-07-28 The Oxford Textbook of Vascular Surgery draws on the expertise of over 130 specialist contributors to encompass the field of vascular surgery Through the use of figures findings of contemporary trials and additional online content this textbook is an excellent study material for surgical trainees entering their final two years of training in addition to serving as an effective reference source for practicing surgeons This volume discusses the epidemiology vascular biology clinical features and management of diseases that affect the vasculature and contains dedicated chapters which address topics such as paediatric surgery damage control surgery and amputations The text follows a logical framework which complements the published Intercollegiate Surgery Curriculum making it particularly useful in preparation for the Intercollegiate Examination The online version of The Oxford Textbook of Vascular Surgery is free for twelve months to individual purchasers of this book and contains the full text of the print edition links to external

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Updates in Peripheral Vascular Intervention, An Issue of Interventional Cardiology Clinics Herbert D Aronow,2020-03-07 This issue of Interventional Cardiology Clinics guest edited by Dr Herbert Aronow will discuss Updates in Peripheral Vascular Intervention This issue is one of four selected each year by the series Editor in Chief Dr Matthew Price Topics discussed in this issue will include Vascular access alternative vascular access and vascular closure hemostasis Wires catheters and sheaths balloons and stents Plaque modification eg atherectomy lithoplasty devices Embolic protection Renal and mesenteric artery intervention Iliac intervention Fem pop intervention Below the knee intervention Acute limb ischemia intervention Catheter directed therapy for pulmonary embolism Intervention for iliofemoral DVT and May Thurner Venous ablation among others

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Endovascular Interventions Jose M. Wiley,Cristina Sanina,Peter Faries,Ian Del Conde,George D. Dangas,Prakash Krishnan,2019-01-18 A practical resource covering both elective and emergency procedures for the practicing vascular and endovascular clinician This book provides medical professionals vascular surgeons interventional cardiologists interventional radiologists endovascular neurologists vascular medicine specialists with a reference guide to the most common and accepted approach to endovascular management of peripheral vascular disease It also addresses urgent interventions in the acute setting of the various vascular beds and covers emerging areas such as stroke intervention and endovascular treatment of pulmonary embolism and vascular trauma Edited by a multidisciplinary team Endovascular Interventions offers in depth coverage of the field in seven parts Overview Supra Aortic Intervention in High Risk Patients Innominate Subclavian Carotid Vertebral and Intracranial Interventions Interventions of the Aorta Renal and Mesenteric Interventions Lower Extremity Interventions Venous Disease and Vascular Trauma Each section covers the technical aspects of the procedures as well as the fundamental clinical aspects which are necessary in the evaluation of patients considered for interventions Chapters feature illustrations case studies key learning points equipment lists and sample questions and answers which can be used for Board exam practice Practical review of vascular and endovascular medicine covering both elective and emergency procedures Illustrated templated chapters provide rapid answers to questions and include case studies key learning points and equipment lists Includes sample questions and answers that are handy for Board exam practice Edited by multidisciplinary experts Endovascular Interventions is an excellent review book for all practicing and aspiring vascular and endovascular specialists Peripheral Vascular Interventions Krishna Kandarpa,2008 This comprehensive clinical reference describes the full range of endovascular interventions currently used for peripheral vascular problems The first section

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