

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

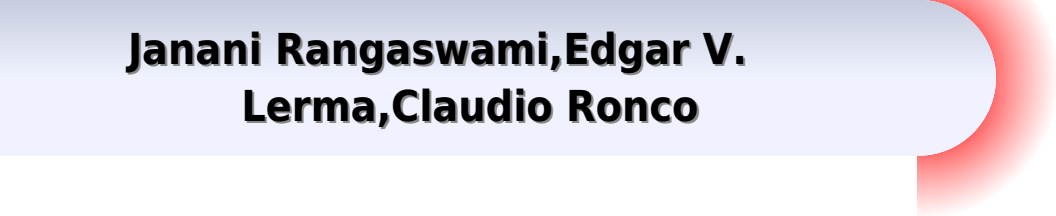
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Long Term Results Of Arterial Interventions

**Janani Rangaswami, Edgar V.
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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.

Peripheral Arterial Interventions Nicolas W. Shamma, 2022-10-13 This book examines new technologies, device and pharmacologic that have evolved over the past few years in treating peripheral arterial disease. Chapters offer optimal strategies to treat PAD supported by peer-reviewed data. The pillars of this strategy will focus on a changing vessel compliance to allow better lumen expansion, less recoil and dissections and less bailout stenting. Chapters also review embolic protection devices and apply the adjunctive use of anti-proliferative therapy to maintain good long-term outcomes. In addition, the book reviews drug-coated balloons and drug-eluting stent technologies and other means of drug delivery into the vessel wall. The goal of this book is to discuss all these emerging technologies under the strategy of treating patients with the focus on both acute and long-term outcomes. Featuring world-renown experts, this book offers a critical and comprehensive overview of the current data and future directions that would pave the way for optimal PAD management. *Peripheral Arterial Interventions* is an essential resource for physicians, residents, fellows and medical students in cardiology, radiology, vascular surgery, primary care and health promotion and disease prevention as well as internal and vascular medicine specialists.

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.

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 agents and protocols Make effective clinical decisions with the help of detailed protocols classic signs algorithms and SIR guidelines Make optimal use of the latest interventional radiology techniques with new chapters covering ablation involving microwave and irreversible electroporation aortic endografts with fenestrated grafts and branch fenestrations thoracic endografting TEVAR catheter based cancer therapies involving drug eluting beads sacroiliac joint injections bipedal lymphangiography pediatric gastrostomy and gastrojejunostomy and peripartum hemorrhage Know what to look for and how to proceed with the aid of over 2 650 state of the art images demonstrating interventional procedures in addition to full color illustrations emphasizing key anatomical structures and landmarks Quickly reference the information you need through a functional organization highlighting indications and contraindications for interventional procedures as well as tables listing the materials and instruments required for each Access the fully searchable contents online only material and all of the images online at Expert Consult [Textbook of Interventional Cardiology](#) Samir Kapadia,2017-07-17 Interventional Cardiology is an extensive richly illustrated guide to this field of medicine The book is edited by internationally recognised experts led by Professor Samir Kapadia This book provides comprehensive coverage of all aspects of interventional cardiology across five sections further divided into 88 chapters The first section covers the evolution periprocedural pharmacology beginning with chapters on the history of coronary intervention and concluding with clinical cases The second section covers specific coronary interventions taking either a disease based or an anatomical approach The chapters also provide information on individual patient groups such as the elderly and diabetics Detailed chapters on a range of devices used in interventional cardiology are included in this section Further sections cover a wide range of peripheral and structural interventions and the final chapter on general topics includes radiation protection prevention and management of bleeding and haemodynamic essentials Enhanced by 700 full colour images Interventional Cardiology is an authoritative resource for all cardiologists Key Points Comprehensive illustrated guide to interventional cardiology Edited by internationally recognised experts led by Prof Samir Kapadia 700 full colour images *Complications During Percutaneous Interventions for Congenital and Structural Heart Disease* Ziyad M.

Hijazi, Ted Feldman, John Cheatham, Horst Sievert, 2013-01-10 Created by world renowned editors who have assembled a stellar team a Who's Who of pediatric and adult cardiologists surgeons and interventionalists who offer the reader pearls of wisdom based on daily practice in the cath lab this practical guide discusses methods to overcoming complications in the interventional treatment of congenital and structural lesions **Manual of Peripheral Vascular Intervention** Ivan P. Casserly, Ravish Sachar, Jay S. Yadav, 2005 This manual is a practical how to guide to vascular interventional procedures for all arteries and veins outside the coronary vascular system The book provides the information needed to evaluate patients and perform procedures and describes the actual techniques used by experienced practitioners including anticoagulants antithrombotics wires guides angioplasty and stents More than 400 illustrations complement the text Chapters on each artery cover indications for interventional procedures vascular anatomy access diagnostic angiography and specific interventional techniques Complications and risks of restenosis are also discussed The book also includes a chapter on training and credentialing in peripheral vascular intervention **Complications in Peripheral Vascular Interventions** Martin Schillinger, Erich Minar, 2007-05-31 Increasing evidence suggests that particularly in high risk patients endovascular solutions offer substantial advantages compared to vascular surgical procedures Nevertheless growing numbers of procedures are associated with an increased incidence of complications Knowledge of specific complications in different vessel areas will support the interventionist in preventing such adverse events and if necessary provide considerable reassurance if such complications need to be resolved In **Complications in Peripheral Vascular Interventions** typical and atypical complications are described for all peripheral vessel areas and methods for how to handle these events are outlined The book is divided in two parts Part 1 reviews general aspects on complications in peripheral interventions and Part II covers the specific vessel areas Each chapter on the specific vessel area includes Introduction to the frequency and kind of complications in this vessel area Factors identifying high risk patients for these complications Complications of specific interventional steps and tools Endovascular techniques to resolve these complications Methods to avoid complications Summary Checklist for emergency equipment Offering practical tips for the interventionist in the cath lab high volume interventionists share their experiences by reviewing complicated cases and outlining different strategies used in real life scenarios **Peripheral Endovascular Interventions** Thomas J. Fogarty, Rodney A. White, 2010-06-25 This book offers a comprehensive review of the rapidly advancing field of endovascular therapy written by internationally recognized authorities in the field many of whom are the innovators of the techniques and devices involved Broad in scope topics covered range from how to obtain training in approved endovascular techniques to promising new lines of investigational therapies **Cardio-Nephrology** Janani Rangaswami, Edgar V. Lerma, Claudio Ronco, 2017-07-31 Extending from the outpatient management of cardiovascular and kidney disease to hospital based decision making in patients with cardio renal disease and complex interfaces such as hemodialysis in patients with ventricular assist device support this book serves as a

single reference point for cardiology and nephrology clinicians and researchers dealing with the significant overlap areas between these two specialties Chapters cover the physiology biomarkers therapeutic agents and full spectrum of these comorbidities and feature separate sections on cardiovascular and CKD evaluations stratification of kidney transplant patients lipid management in CKD interventional strategies and hypertension Leaders in cardiology nephrology hypertension and lipidology bring together the latest evidence with their collective clinical experience into this invaluable resource This textbook is an essential resource for physicians and allied professionals practicing cardiology nephrology students and physician trainees to deepen their understanding of this crucial field

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