# 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 patiency 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 femoropopliteal 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 atheroscierosis. Its prevalence is 3-10% between 40-59 years and 15-20% over 70 years. The most significant risk factors for PAD are diabetes mellitus (DM), hypertension (HT), hyperlipidemia (HL), chronic kidney disease (CKD), and smoking? In addition, there is an increased rate of myocardial infarction, ischemic stroke, and cardiovascular death in patients with PAD. 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 autógenous 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 suitable. 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)<sup>3-7</sup>. Omniflow® II (Bio Nova International, Victoria, Australia) is created by using cross linked owine collagen and an endoslerieton made of polyester mesh which

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Received: 03:04.2023, Accepted: 01:06:2023, Available Online Date: 31:08.2023

One this article as: Simsait 8, Achay D. Tamistark 2. Long turns results of arterial revascularization with Ownelfow\* 8 biosymbhetic grafts: a single center experience. J Culturova Anesth Sung. 2023; 6(2): 210-4. doi: 10.36516/jocass.1276127 Copyright: 0.2023 This is an open access article distributed under the terms of the Cristine Commons Attribution Non-Commoncial-No-Derivative License 4.0 (CC-87-NC-ND), where it is permissible to download and share the work provided it is property cited. The work cannot be changed in any way or used commercially without permission from the Journal.

# **Long Term Results Of Arterial Interventions**

Matthew A. Mauro, Kieran P.J.

Murphy, Kenneth R. Thomson, Anthony
C. Venbrux, Robert A. Morgan

#### **Long Term Results Of Arterial Interventions:**

Peripheral Arterial Interventions Nicolas W. Shammas,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 b less recoil and dissections and c 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

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 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 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

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interventions cerebrovascular interventions venous interventions structural heart interventions and congenital heart disease Features more than 506 high quality illustrations and access to 176 procedural videos Any additional digital ancillary content may publish up to 6 weeks following the publication date Complications of Cardiovascular Procedures Mauro Moscucci, 2012-03-28 This textbook provides interventional cardiologists endovascular interventionalists and physicians in training with a comprehensive resource on the prevention and management of complications in interventional cardiology The book focuses specifically on risk factors prevention and management with conventional and or with bailout techniques and devices It includes many images of common and rare complications and of devices The first section on general principles includes quality assurance training requirements legal considerations adjunctive pharmacotherapy and conscious sedation Subsequent sections cover general complications of invasive procedures and complications of specific coronary interventions noncoronary cardiac interventions peripheral vascular procedures pediatric interventions and electrophysiology procedures A companion website includes videos of over 30 complications and bailout techniques **Grossman & Baim's Cardiac** Catheterization, Angiography, and Intervention Mauro Moscucci, 2020-09-10 The leading comprehensive reference on cardiac catheterization through eight outstanding editions Grossman Baim's Cardiac Catheterization Angiography and Intervention Ninth Edition continues to keep you up to date with every facet of this fast changing field Designed for quick access and easy reference this text offers expert overviews of the theoretical and practical aspects of clinical issues with emphasis given to hemodynamic data and tracings and interventional procedures An impressive multimedia library with new videos and cases make this reference even more valuable for cardiologists and interventional cardiologists at all levels of Index Medicus, 2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings experience Approaches in Coronary Intervention Stephen Geoffrey Ellis, David R. Holmes, 2006 Updated to include the newest devices and procedures this practical reference is a clinically oriented guide to interventional cardiology Chapters by the foremost experts present step by step approaches to specific clinical problems and offer guidelines for selecting the most appropriate device and technique The authors recommendations are backed by their extensive experience and by evidence based clinical trials This Third Edition describes the latest stents and stenting procedures including local drug delivery with coated stents and provides state of the art information on local myocyte injection distal protection devices peripheral vascular intervention and new adjunctive therapies The concluding chapter previews future developments in the field Advanced Therapy in Hypertension and Vascular Disease Emile R. Mohler (III.), 2006 Provides a resource for health

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Deepak L. Bhatt, 2015-03-22 Introducing Cardiovascular Intervention a comprehensive companion volume to Braunwald s Heart Disease This medical reference book contains focused chapters on how to utilize cutting edge interventional technologies with an emphasis on the latest protocols and standards of care Cardiovascular Intervention also includes late breaking clinical trials Hot off the Press commentary and Focused Reviews that are relevant to interventional cardiology View immersive videos from an online library of procedural clips located on Expert Consult Remain abreast of the newest interventional techniques including next generation stents invasive lesion assessment and methods to tackle complex anatomy Provide optimal patient care with help from easy to access information on the latest diagnostic and treatment advances discussions on percutaneous approaches to structural heart disease and new developments in treating heart valve Vascular Interventional Radiology Mark G. Cowling, 2006-12-26 This volume focusses on the current evidence disease surrounding the use of endovascular therapy It updates and complements the earlier Medical Radiology volume on the Radiology of Peripheral Vascular Diseases Some background information is provided on vascular biology and the facilities required for safe endovascular practice along with guidance on consent issues Further chapters deal with endovascular treatment in particular arterial territories and include the evidence in favour of or against the use of specific treatments. The most up to date evidence surrounding endovascular aneurysm repair is discussed There are also chapters on venous interventions including the endovascular management of varicose veins This book will be of value both to interventional radiologists and to vascular surgeons with an interest in endovascular techniques **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 Cardiovascular Catheterization and Intervention Debabrata Mukherjee, Eric Bates, Marco Roffi, David Moliterno, 2010-08-24 The field of invasive and interventional cardiology is dynamic with frequent advances in

both technique and technology An internationally renowned team of editors and over 100 contributors have shaped this textbook to provide clinicians with a thorough guide that covers the procedural and peri procedural aspects of coronary peripheral and structural heart disease diagnostics and interventions This comprehensive and highly illustrated textbook presents critical information for anyone active in the field of cardiovascular interventions including Practical suggestions on how to set up a cardiovascular catheterization laboratory choose the right equipment and minimize radiation exposure A careful analysis of the general principles of percutaneous coronary interventions the specific knowledge needed in different clinical scenarios as well as the patient selection criteria for each invasive procedure In depth coverage of non coronary interventions including 13 chapters on peripheral vascular interventions including carotid artery stenting as well as newer procedures for intracranial stenosis treatment septal defect repair and left atrial appendage closure An incorporation of emerging procedures in structural heart disease such as percutaneous aortic valve replacement and mitral valve repair that although not presently mainstream will likely become an important domain of interventional cardiologists Given the importance of appropriate training and credentialing for clinicians the textbook also includes current national guidelines and policies on the performance of the various procedures

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