

Long-Term Outcomes After Percutaneous Lower Extremity Arterial Interventions With Atherectomy vs. Balloon Angioplasty — Propensity Score-Matched Registry —

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Background: The impact of endovascular revascularization of the lower extremity arteries with atherectomy (AT) compared with percutaneous transluminal angioplasty (PTA) is still unclear. Therefore, the aim of the study was to compare long-term outcomes after percutaneous PTA and AT in patients requiring endovascular revascularization.

Methods and Results: This was a single-center, retrospective registry of obstructive and symptomatic PAD patients who underwent endovascular revascularization. PTA was performed in 215 patients, and AT in 204 (Silver Hawk, EV3, n=125; CSI 360°, n=66; Pathway Medical Technologies, n=13). There were no significant between-group differences in baseline characteristics except for increased CAD, dialysis and CLI prevalence in the PTA group. Following propensity score analysis 131 well-matched pairs were included in analysis. Bail-out stenting was more frequent in the reference group (PTA, 6.1% vs. AT, 0%; $P=0.004$). At 6- and 12-month follow-up there were no differences in TLR between the groups (PTA, 8.3% vs. AT, 5.3%; $P=0.47$; and PTA, 16.7% vs. AT, 13.7%; $P=0.73$, respectively). The difference was in favor of AT at 24-month follow-up (PTA, 29.0% vs. AT, 16.7%; $P=0.05$). No difference was observed in amputation rate (PTA, 0.7% vs. AT, 1.5%; $P=0.62$). On Kaplan-Meier analysis there were no significant differences between groups in time to TLR, amputation or death.

Conclusions: AT was associated with lower risk of TLR, and this should be confirmed in randomized controlled trials.

Key Words: Atherectomy; Claudication; Critical limb ischemia; Percutaneous transluminal angioplasty; Peripheral artery disease

According to recent clinical practice and evidence, endovascular revascularization of the lower limb arteries has superseded surgical procedures.^{1,2} Regardless of advancement in endovascular technology, restenosis and the need for repeat revascularization are still challenging. Moreover, the mortality in peripheral artery disease (PAD), especially in critical limb ischemia (CLI), is high, fluctuating at around 20% at 6-month follow-up, and exceeding 50% within 5 years from diagnosis.^{3,4} These numbers increase in patients with coexisting symptomatic coronary artery disease (CAD). Additionally, CLI is associated with poor quality of life⁵ and high treatment costs.⁶ Nowadays, multiple therapies for PAD have emerged, including pharmacological regimens, endovascular and open surgery, drug-coated balloons (DCB), and stem cell therapy.⁷ On top of that, stenting has become popular, due to the

reassuring early outcome. In contrast, in the femoropopliteal artery mechanical stress is high, thus implanted stents are exposed to the risk of stent fracture and malformation, increasing the rate of restenosis.^{8,9} In the below-the-knee (BTK) region, use of metal, balloon-expandable drug-eluting stents is more common than the self-expandable nitinol ones, because those stents are even more susceptible to fracture. Moreover, due to the characteristics of BTK lesions, in most cases multiple stents are needed.¹⁰ Therefore, atherectomy (AT), which removes the atherosclerotic plaque from the arterial wall, appears to be promising. This expectancy is linked to the fact that these devices cut out the plaque from the artery wall, thus significantly increasing lumen diameter and removing potential sources of inflammation, thus facilitating satisfactory outcome.¹¹

Thus far, the long-term outcomes after endovascular

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Long Term Results Of Arterial Interventions

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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

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

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

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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
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