Peripheral Arterial Disease: Pathophysiology and Therapeutics (Colloquium Series on Integrated Systems Physiology)

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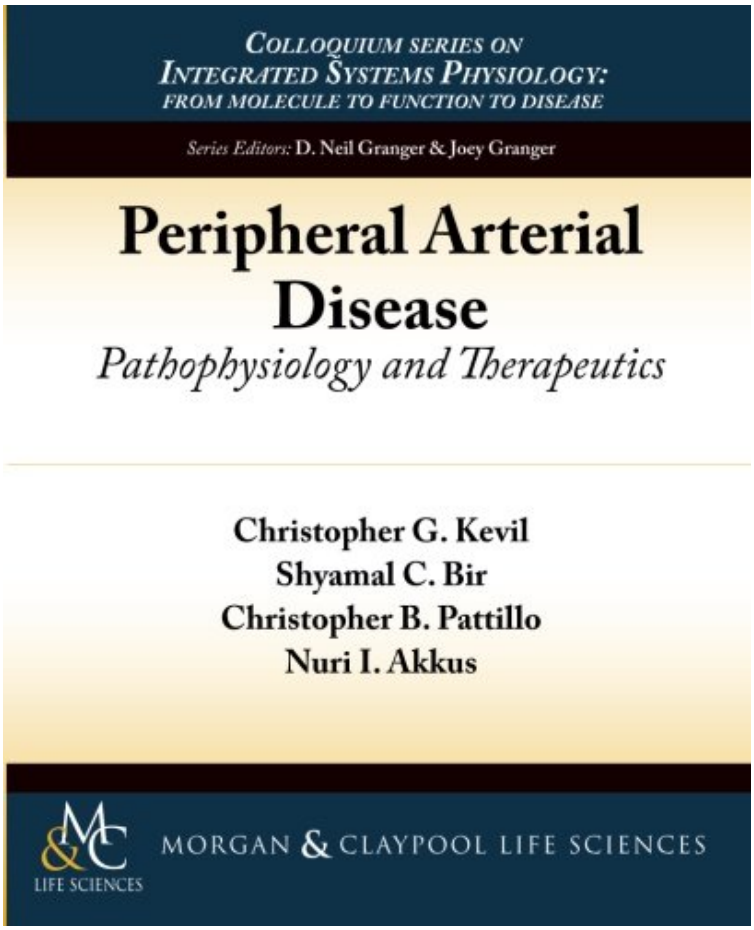

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Christopher G. Kevil, Shyamal C. Bir, Christopher B. Pattillo, Nuri I. Akkus : Peripheral Arterial Disease: Pathophysiology and Therapeutics (Colloquium Series on Integrated Systems Physiology) before purchasing it in order to gage whether or not it would be worth my time, and all praised Peripheral Arterial Disease: Pathophysiology and Therapeutics (Colloquium Series on Integrated Systems Physiology):

Peripheral arterial disease (PAD) is a cardiovascular disorder of the peripheral vasculature due to progressive atherosclerotic stenosis of conduit arteries restricting blood flow to tissues. PAD is typically a disease of older individuals, and the incidence of PAD continues to rise due to an increase in cardiometabolic disease and an aging population. Importantly, all cause and cardiovascular morbidity and mortality are significantly increased in PAD

patients. PAD diagnosis remains a significant challenge, as a large number of patients are asymptomatic. Moreover, PAD results in a significant financial and societal burden with underutilized diagnostics and limited effective therapies. Here we discuss PAD signs and symptoms, pathophysiological mechanisms, current management, and future disease targets and possible therapeutic treatments for PAD. Table of Contents: Introduction / Clinical Parameters of Peripheral Arterial Disease / Vascular Anatomy and Physiology / Pathophysiology of Peripheral Arterial Disease / Vascular Dysfunction Responses / Adaptive Vascular Responses / Current Medical Management of Peripheral Arterial Disease / Emerging Targets and Therapeutic Directions / Summary / References / Author Biographies

About the AuthorChristopher Gene Kevil, PhD, received a B.S. degree in microbiology and biochemistry from Northwestern State University in 1992 and his PhD in molecular and cellular physiology at LSU Medical Center in 1998. He performed fellowship training at the University of Alabama-Birmingham in Genomics and Pathobiology from 1999 to 2002 and then joined the Department of Pathology at LSU Health Sciences Center in 2002. Dr. Kevil has received numerous honors and awards for his research on the pathophysiology of vascular disease and ischemic vascular remodeling responses. His laboratory has been funded by the National Institute of Health, American Heart Association and American Diabetes Association and has made discoveries that have transitioned to clinical and therapeutic areas. He currently serves on editorial and advisory boards for leading cardiovascular research journals and professional societies. His research focuses on redox biology and gasotransmitter regulation of vascular disease and ischemic vascular remodeling in various pathological settings. Shyamal Chandra Bir, MBBS, PhD, received his MBBS (Bachelor of Medicine and Surgery) degree at Dhaka University in Bangladesh in 2002. As a graduate student (2005-2009) in the Department of Cardiovascular Surgery at Kyoto University, Kyoto, Japan, under Dr. Masashi Komeda MD, PhD, and Dr. Ryuzo Sakata MD, PhD, he has studied therapeutic angiogenesis and vascular biology in diabetic mouse under ischemia using different growth factors and platelet-rich plasma. Then he moved to Dr. Kevil's laboratory, LSU Health - Shreveport, LA, USA, in 2009 and has been working there as a postdoctoral fellow until today. His interest is in vascular biology, vascular growth, and ischemic remodeling. Christopher Pattillo received a B.S. degree (2001) in biophysics at Centenary College of Louisiana and continued his education with a Master's degree from University of Tennessee Health Sciences Center - Memphis (2004) and Ph.D. from Temple University (2007). Since 2012 he has been an assistant professor in the Department of Molecular and Cellular Physiology at the Louisiana State University Health Sciences Center Shreveport. His current research interests include the study of pathological angiogenesis in peripheral artery disease, stroke, and cancer. In these models, levels of reactive oxygen species play detrimental as well as beneficial signaling roles. These signaling roles are being studied to identify new therapeutic targets.