

# Annals of Vascular Surgery

The International Journal of Vascular Surgery and Endovascular Therapies

Volume 91

April 2023

Follow us  @avsgjournal

Official publication for:

Brazilian Society of Angiology and Vascular Surgery

Chilean Society for Vascular and Endovascular Surgery

Chinese Society for Vascular Surgery

Florida Vascular Society

French Society for Vascular and Endovascular Surgery

Georgia Vascular Society

Southern California Vascular Surgical Society

Vascular & Endovascular Surgery Society, USA

Vascular Surgeons of Spanish Language

## Contents

### SELECTED PAPERS FROM THE EDITORIAL BOARD

- The Natural History of Carotid Artery Occlusions Diagnosed on Duplex Ultrasound. . . . . 1  
Giancarlo Speranza, Keerthi Harish, Caron Rockman, Ryan Gordon, Mikel Sadek, Glenn Jacobowitz,  
Heepeel Chang, Karan Garg, and Thomas S. Maldonado, *New York, and Valhalla, New York, and Wilmington,  
Delaware*
- A Systematic Review and Meta-Analysis to Assess the Impact of Pre-existing Comorbidities  
on the 30-Day Readmission after Lower Extremity Bypass Surgery for Peripheral Artery  
Occlusive Disease . . . . . 10  
Ahsan Zil-E-Ali, Muzzammil Ahmadzada, Olivia Calisi, Ryan M. Holcomb, Akshilkumar Patel, and Faisal Aziz,  
*Hershey, Pennsylvania, and Baltimore, Maryland*
- Impact of Statins on Survival and Limb Salvage in Patients Undergoing Peripheral  
Endovascular Intervention for Chronic Limb-Threatening Ischemia. . . . . 20  
Matthew Chang, Monica O'Brien-Irr, Brittany Montross, Hasan Dosluoglu, Linda Harris, Maciej Dryjski,  
Mariel Rivero, and Sikandar Z. Khan, *Buffalo, New York*
- Mortality and Delays of Management of Acute Mesenteric Ischemia: The Need of  
a Dedicated Program. . . . . 28  
Louis Magnus, Anne Lejay, Guillaume Philouze, Nabil Chakfé, Olivier Collange, Fabien Thaveau, and  
Yannick Georg, *Strasbourg, and Clermont-Ferrand, France*
- Risk Factors Associated with Spinal Cord Ischemia During Aortic Aneurysm Repair. . . . . 36  
Faraz Behzadi, Joshua E. Simon, Tara J. Zielke, John T. Cook, Renzo A. Costa, Carlos F. Bechara, and  
Vikram C. Prabhu, *Maywood, Illinois*
- Celiac Artery Coverage During TEVAR for Dissection and Acute Aortic Injury is Not  
Associated with Worse Outcomes . . . . . 50  
Adam Taniou, Sujin Lee, Laura T. Boitano, Charles DeCarlo, Young Kim, Christopher Latz,  
Benjamin Colvard, and Anahita Dua, *Charleston, SC, Boston, MA, Worcester, MA, and Cleveland, OH*

Paradigm Shift in Vascular Surgery Training: Independent versus Integrated Match Outcomes . . . . .	57
Jason Silvestre, Zaid Nawaz, Vincent L. Rowe, and Kakra Hughes, <i>Philadelphia, Pennsylvania, Washington, District of Columbia, and Los Angeles, California</i>	

**INVITED COMMENTARY**

A Vascular Roundtable Discussion on the Autonomy and Ownership of Delivering Modern Vascular Care . . . . .	65
Manish Mehta, Mehdi Teymouri, Philip Paty, Sanjay Samy, Alan Matsumoto, Margaret C. Tracci, John Rundback, Murray Shames, and Danielle Smith, <i>Latham, and Albany, New York, Charlottesville, Virginia, Teaneck, New Jersey, Tampa, Florida, and Pinehurst, North Carolina</i>	

**COVID 19**

Cilostazol as a Treatment for COVID Toes: A Case Report. . . . .	76
Patton McClelland, and Bruce H. Gray, <i>Greenville, South Carolina</i>	
Outcomes of Surgical Revascularization for Acute Limb Ischemia in COVID-19 Patients Comparing to Noninfected Cohort: A Single-Center Observational Prospective Study . . . . .	81
Alexandru Predenciuc, Dumitru Casian, and Vasile Culiuc, <i>Chisinau, Republic of Moldova</i>	

**CLINICAL RESEARCH**

Pre-Emptive Embolization of the Aneurysm Sac or Aortic Side Branches in Endovascular Aneurysm Repair: Meta-Analysis and Trial Sequential Analysis of Randomized Controlled Trials . . . . .	90
Nikolaos Kontopodis, Nikolaos Galanakis, Michalis Kiparakis, Christos V. Ioannou, Ioannis Kakisis, George Geroulakos, and George A. Antoniou, <i>Heraklion, Athens, Greece, and Manchester, United Kingdom</i>	
Predictive Value of Laboratory Indicators for Endoleak During Short-Term Follow-Up After EVAR . . . . .	108
Tianchen Xie, Min Zhou, Yonggang Wang, Yong Ding, Xu Li, Zhenyu Zhou, and Zhenyu Shi, <i>Shanghai, China</i>	
Midterm Results of a Surgeon-Modified Device to Preserve the Flow of the Internal Iliac Artery During Endovascular Repair of Aneurysm: Single-Center Experiences. . . . .	117
Chaonan Wang, Yan Zhou, Jiang Shao, Zhichao Lai, Kang Li, Leyin Xu, Junye Chen, Xiaoxi Yu, Zhan Zhu, Jiaxian Wang, Xiaolong Liu, Jinghui Yuan, and Bao Liu, <i>Beijing, China</i>	
Gender-specific Predicted Normal Aortic Size and Its Consequences of the Population-Based Prevalence of Abdominal Aortic Aneurysms . . . . .	127
Joachim S.S. Kristensen, Lasse M. Obel, Marie Dahl, Annette Høgh, and Jes S. Lindholt, <i>Odense C, and Viborg, Denmark</i>	
Dying to Get There: Patients Who Reside at Increased Distance from Tertiary Center Experience Increased Mortality Following Abdominal Aortic Aneurysm Rupture . . . . .	135
Samuel Jessula, Claudia L. Cote, Matthew Cooper, Garrett McDougall, Matthew Kivell, Young Kim, Gavin Tansley, Patrick Casey, Matthew Smith, and Christine Herman, <i>Boston, Massachusetts, and Halifax and Vancouver, Canada</i>	
Clinical Characteristics and Risk Factors of Noninfectious Fever after Thoracic Endovascular Aortic Repair of Acute Type B Aortic Dissection . . . . .	145
Xinyang Li, Song Wu, Yinde Huang, Yu Lun, and Jian Zhang, <i>Shenyang, Liaoning, China</i>	
Free Jejunal Graft Interposition with Vascular Reconstruction in Patients Undergoing Pharyngo Laryngo Esophagectomy. . . . .	155
Takashi Yoshinaga, Ken Okamoto, Jun Takaki, Kosaku Nishigawa, Tatsuya Horibe, Hideaki Hidaka, and Toshihiro Fukui, <i>Kumamoto, Japan</i>	

Concomitant Orthopedic Injury is the Strongest Predictor of Amputation in Extremity Vascular Trauma . . . . .	161
Dimitri Mabarak, Faraz Behzadi, Maelee Yang, Amy Wozniak, Purvi Patel, and Bernadette Aulivola, <i>Maywood, Illinois</i>	
Feasibility and Accuracy of Measuring Carotid Plaque Volume (Burden) With Contrast-Enhanced Tomographic 3D Ultrasound and Ultrasound Image Fusion . . . . .	168
S.K. Rogers, A. Phair, J. Carrieria, J. Ghosh, F.L. Bowling, and C. McCollum, <i>Manchester, United Kingdom</i>	
Evaluating the Safety of Transcarotid Artery Revascularization under Local Anesthesia Prior to Coronary Artery Bypass Grafting Surgery . . . . .	176
Yamini Vyas, Eyerusalem Workneh, Joshua L. Leibowitz, Rajabrata Sarkar, Mehrdad Ghoreishi, and Shahab Toursavadkahi, <i>Baltimore, Maryland</i>	
Incidence and Significance of Deep Venous Reflux in Patients Treated with Saphenous Vein Ablation. . . . .	182
Keyuree Satam, Afsha Aurshina, Haoran Zhuo, Yawei Zhang, Jonathan Cardella, Edouard Aboian, Britt Tonnessen, Raul J. Guzman, and Cassius Iyad Ochoa Chaar, <i>New Haven, Connecticut; Beijing, China, and New Haven, CT, United States</i>	
Venous Thromboembolism After Interventions on the Ovarian Veins in Patients With Pelvic Venous Disorder. . . . .	191
Sergey G. Gavrilov, Nadezhda Yu. Mishakina, and Anastasiya S. Grishenkova, <i>Moscow, Russia</i>	
Use of the 11-Item Modified Frailty Index to Determine Accurate Prognosis and Revascularization Strategy in Patients Undergoing Vascular Bypass Surgery for Intermittent Claudication. . . . .	201
Takuya Matsumoto, Shou Yamashita, Ryosuke Yoshiga, Atsushi Guntani, Masaru Ishida, and Shinsuke Mii, <i>Fukuoka, Japan</i>	
Cognitive Impairment is Common in a Veterans Affairs Population with Peripheral Arterial Disease . . . . .	210
Eric J.T. Smith, Warren J. Gasper, Peter A. Schneider, Emily Finlayson, Louise C. Walter, Ken E. Covinsky, Michael S. Conte, and James C. Iannuzzi, <i>San Francisco, California, and San Francisco, CA</i>	
Percutaneous, Antegrade Access of the Superficial Femoral Artery can be Safely Used in Procedures for the Treatment of Lower Extremity Limb Ischemia. . . . .	218
Ryan Gedney, Camila F. Villacreses, Mathew D. Wooster, and Elizabeth A. Genovese, <i>Charleston, South Carolina</i>	
Results of Excimer Laser Ablation Combined with Drug-Coated Balloon for Atherosclerotic Obliterations of Lower Extremity and Risk Factors for Loss of Primary Patency . . . . .	223
Xiaolang Jiang, Xiaoyan Li, Bin Chen, Junhao Jiang, Yun Shi, Tao Ma, Changpo Lin, Daqiao Guo, Xin Xu, Shuai Ju, Weiguo Fu, and Zhihui Dong, <i>Shanghai, China</i>	
Accuracy and Reliability of Peripheral Artery Calcium Scoring Systems Using an Intravascular Ultrasound Reference Standard. . . . .	233
Richard B. Allan, Nadia C. Wise, Yew Toh Wong, and Christopher L. Delaney, <i>Bedford Park, and Adelaide, South Australia, Australia</i>	
Utility of Removable Rigid Dressings in Decreasing Discharge Narcotic Use and Improving Ambulation Following Below-Knee Amputation. . . . .	242
Amrita Sarkar, Robin Fencel, Eleanor Dunlap, Suzanna Fitzpatrick, and Khanjan Nagarsheth, <i>Baltimore, Maryland</i>	
TcPO2 Value Can Predict Wound Healing Time in Clinical Practice of CLTI Patients. . . . .	249
Youngje Woo, Young Ju Suh, Hwasun Lee, Eunsun Jeong, Sun Cheol Park, Sang Seob Yun, and Jang Yong Kim, <i>Incheon, and Seoul, Republic of Korea</i>	

## GENERAL REVIEW

A Systematic Review of Clopidogrel Resistance in Vascular Surgery: Current Perspectives and Future Directions . . . . .	257
Young Kim, E. Hope Weissler, Neena Pack, and Christopher A. Latz, <i>Durham, North Carolina, and Tampa, Florida</i>	

A Systematic Review of Contemporary Outcomes from Aortic Arch In Situ Laser Fenestration During Thoracic Endovascular Aortic Repair . . . . .	266
Shahed Tish, Jo-Ana Chase, Caryn Scoville, Todd R. Vogel, Steven Cheung, and Jonathan Bath, Columbia, Missouri	
Infective Native Extracranial Carotid Artery Aneurysms: A Systematic Review . . . . .	275
Melissa Hanger, and Daryll M. Baker, London, UK	
Current Perspective and Strategy on Management of Spontaneous Jugular Venous Ectasia: A Systematic Review. . . . .	287
Siwen Wang, Tianzhen Jing, Ruijia Feng, Xixi Xiao, Mingshan Wang, Yuansen Qin, Chen Yao, Zuojun Hu, Shenming Wang, and Guangqi Chang, Guangzhou, Guangdong, China	

**CORRESPONDENCE**

Trends and Outcomes in Management of Thoracic Aortic Injury in Children, Adolescent, and Mature Pediatric Patients Using Data from the National Trauma Data Bank: Letter to the Editor . . . . .	298
Simon De Freitas, and Javairiah Fatima	

Instructions to authors for *Annals of Vascular Surgery* are available on the internet. Go to:

<http://authors.elsevier.com/gfa/avsg>

*Annals of Vascular Surgery* is abstracted/indexed in: Medline, Current Contents and SCI Search.