

European Journal of Vascular & Endovascular Surgery

Volume 58 • Issue 6 • 2019
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EDITORIAL

792 **VASCUNET, VQI, and the International Consortium of Vascular Registries – Unique Collaborations for Quality Improvement in Vascular Surgery**
C.-A. Behrendt, M. Venermo, J.L. Cronenwett, A. Sedrakyan, A.W. Beck, J. Eldrup-Jorgensen and K. Mani on behalf of VASCUNET, the Vascular Quality Initiative and the International Consortium of Vascular Registries

794 **Surrogate Markers and Reporting Standards for Outcome After Carotid Intervention**
M.L. Rots, A. van der Lugt and G.J. de Borst

CAROTID DISEASE

796 **Magnetic Resonance Imaging Identified Brain Ischaemia in Symptomatic Patients Undergoing Carotid Endarterectomy Is Related to Histologically Apparent Intraplaque Haemorrhage**
M.L. Rots, N. Timmerman, D.P.V. de Kleijn, G. Pasterkamp, M.M. Brown, L.H. Bonati and G.J. de Borst

This study (n = 53) reports that patients with carotid intraplaque haemorrhage (IPH) have an increased risk of developing silent brain ischaemia in the waiting period between index event and surgery. IPH could be a potential marker for identifying patients at risk of recurrent events.

805 **The Effect of Metabolic Syndrome on the Occurrence of Restenosis After Carotid Endarterectomy**
B.M. Wallis de Vries, N. Timmerman, C.J.H.C.M. van Laarhoven, L. Visser, R.A. Pol, M. El Mounni, G. Pasterkamp, G.J. de Borst and C.J. Zeebregts

This study (1668 CEA procedures in 1577 patients) reports that metabolic syndrome does not predict restenosis after CEA nor does it influence patient survival. Of note, the presence or absence of metabolic syndrome could not be determined in 263 patients because of missing data. Larger studies are needed.

AORTIC DISEASE

813 **Editor's Choice – Sex Related Differences in Peri-operative Mortality after Elective Repair of an Asymptomatic Abdominal Aortic Aneurysm in the Netherlands: a Retrospective Analysis of 2013 to 2018**
R. Indrakusuma, H. Jalalzadeh, A.C. Vahl, M.J.W. Koelemay and R. Balm

The nationwide Dutch Surgical Aneurysm Audit (n = 11,299 including 1662 women) reports that peri-operative mortality after elective repair of an asymptomatic AAA is higher (absolute risk difference = 1.41% - 95% CI 0.64-2.37) in women than in men. This significant difference is observed after open surgical repair but not after EVAR. Female sex remains associated with peri-operative mortality after adjusting for confounders.

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821 **Problems of Gender**
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822 **Distal Stent Graft Induced New Entry: Risk Factors in Acute and Chronic Type B Aortic Dissections**
J. Lortz, F. Leinburger, K. Tsagakis, C. Rammos, A. Lind, T. Schlosser, H. Jakob, T. Rassaf and R.A. Jánosi

This study (n = 185) shows that acute aortic dissection, increased distal oversizing, and taper ratio are risk factors for distal stent graft induced new entry (dsINE). Long term prognosis is good after re-intervention for dsINE.

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- 831 **Prospective Study of the Iliac Branch Device E-iliac in Patients with Common Iliac Artery Aneurysms: 12 Month Results**
J.S. Brunkwall, C.V. Puerta, J. Heckenkamp, J.M. Egaña Barrenechea, P. Szopinski, G. Mertikian, S. Seifert, G. Rūmenapf, S. Buz, A. Assadian, P. Majd, S. Mylonas, A.R. Calavia, T. Theis, M. de Blas Bravo, E. Pleban, J. Schupp, M. Esche, C. Kocaer, K. Hirsch, A. Oberhuber and J.P. Schäfer
- This prospective multicentre study (n = 42) reports a device related re-intervention rate of 5% and primary patency rates of 98% for the internal iliac artery and external iliac artery at 12 month follow up of the E-iliac Stent Graft System. Long term follow up is needed.
- 839 **Impact of Stent Graft Design on External Iliac Artery Limb Occlusion Rates After Endovascular Aneurysm Repair: Post-hoc Analysis of a Japanese Multicentre Database**
T. Shintani, H. Obara, K. Matsubara, K. Hayashi, M. Hayashi, S. Ono, T. Shimogawara, S. Shibutani, S. Watada, Y. Sekimoto, N. Uchida, A. Asami, T. Fujii, H. Harada, N. Fujimura, Y. Sato and Y. Kitagawa
- This study (n = 428) reports that the risk of limb occlusion in patients with a small external iliac artery is lower with a helical stent graft with ePTFE as compared to a Z stent with polyester graft.
- 848 **Strict Control of Blood Glucose With an Intravenous Insulin Infusion Decreases the Risk of Post-operative Lower Extremity Weakness After Complex Endovascular Aortic Aneurysm Repair**
J.S. Hiramoto, M. Hoffman, W. Gasper, L. Reilly and T. Chuter
- This study (n = 43) shows that controlling blood glucose levels with an intravenous insulin infusion after branched EVAR is associated with a decreased risk of post-operative lower extremity weakness.
- PERIPHERAL ARTERIAL DISEASE**
- 854 **Editor's Choice – Impact of Endovascular Pedal Artery Revascularisation on Wound Healing in Patients With Critical Limb Ischaemia**
H.W. Jung, Y.-G. Ko, S.-J. Hong, C.-M. Ahn, J.-S. Kim, B.-K. Kim, D. Choi, M.-K. Hong and Y. Jang
- This study (n = 239; 87 matched pairs) reports that endovascular pedal artery revascularisation (PAR) in CLTI patients achieves higher rates of wound healing and freedom from major amputation than infrapopliteal revascularisation without PAR. Gangrene, CRP >3 mg/dL, and pre-procedural absence of pedal arch are associated with impaired wound healing.
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- 864 **Pedal Artery Revascularisation: ‘Bogey’, ‘Birdie’, or ‘Eagle’ in the Treatment of Chronic Limb Threatening Ischaemia?**
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- 865 **Comparison Between Interwoven Nitinol and Drug Eluting Stents for Endovascular Treatment of Femoropopliteal Artery Disease**
A. Haine, M.J. Schmid, M. Schindewolf, A. Lenz, S.M. Bernhard, H. Drexel, I. Baumgartner and J.F. Dopheide
- This study (n = 234; weighted population = 151) reports that both stents achieve, at 12 months, comparable clinically driven target lesion revascularisation of FP lesions. One stent cannot be favoured over the other, even for calcified or popliteal artery lesions.
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- 874 **What stent and when in the superficial femoral artery?**
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- 875 **Effects of Remote Ischaemic Preconditioning on Arterial Stiffness in Patients Undergoing Lower Limb Angiographic Procedures: A Randomised Clinical Trial**
K. Kuusik, T. Kepler, M. Zilmer, J. Eha, M. Vähi and J. Kals
- This trial (n = 102) reports that arterial stiffness parameters, such as augmentation index, corrected augmentation index, mean arterial pressure, peripheral pressure, and central systolic arterial pressure, are reduced in the RIPC group 24h after digital subtraction angiography.
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- 884 **Combination of Colour Duplex and Contrast Enhanced Ultrasound as an Alternative to Computed Tomography Angiography in Isolated Mesenteric Artery Dissection Surveillance**
B. Wu, X. Wu, K. Wang, F. Tian, L. Cheng and Z. Jia

This study (n = 42) shows that colour duplex ultrasound plus contrast enhanced ultrasound is as efficient as CT angiography alone to follow up patients with IMAD, without the need for radiation exposure or iodine containing contrast use.

Invited commentary

- 890 **Starting to Remove Radiation and Iodinated Contrast from the Vascular “Equation”**
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BASIC SCIENCE AND TRANSLATIONAL MEDICINE

- 891 **Cold Renal Perfusion During Simulation of Juxtarenal Aortic Aneurysm Repair Reduces Systemic Oxidative Stress and Sigmoid Damage in Rats**
T.G. van Schaik, V. Jongkind, R.J. Lindhout, J. van der Reijden, W. Wisselink, P.A.M. van Leeuwen, R.J.P. Musters and K.K. Yeung

This experimental study (28 rats) demonstrates that renal ischaemia/reperfusion injury after suprarenal clamping induces sigmoid damage. Cold renal perfusion reduces renal damage and has beneficial effects on sigmoid integrity, by preserving microcirculatory flow, and reducing oxydative stress and leucocyte infiltration.

Invited commentary

- 902 **When the Vicious Circle Begins...**
A. Lejay, B. Geny and N. Chakfé

- 903 **Novel Locally Acting Dual Antiplatelet and Anticoagulant (APAC) Targets Multiple Sites of Vascular Injury in an Experimental Porcine Model**
K.A. Barreiro, R. Tulamo, A. Jouppila, A. Aläck and R. Lassila

This experimental study in pigs shows that, both *ex vivo* and *in vivo*, locally administered dual antiplatelet and anticoagulant targets the vascular injury sites under normal and high flow conditions in an acute setting. The binding counterparts include internal elastic lamina, von Willebrand factor, and laminin.

VASCULAR (GRAFT) INFECTION

- 912 **Cryopreserved Venous Allografts in Supra-inguinal Reconstructions: A Single Centre Experience**
I. Heinola, I. Kantonen, I. Mattila, A. Aläck and M. Venermo

This study (n = 23) reports a 90 day mortality of 9% and a re-intervention rate (median follow up = 15 months) of 13% after cryopreserved venous allograft reconstructions owing to infection in the supra-inguinal area. Long term data are needed.

Invited commentary

- 920 **Cryoveinorta – Another Option for Supra-inguinal Primary Aortic and Arterial Graft Infections?**
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VASCULAR ACCESS

- 921 **Short Term Success of Treatments to Salvage Thrombosed or Failing Synthetic Arteriovenous Grafts in End Stage Renal Disease: A Systematic Review and Network Meta-Analysis of Randomised Controlled Trials**
G.K. Nikolopoulos, A.I. Yiallourou, C. Argyriou, S. Bonovas, G.S. Georgiadis and M.K. Lazarides

This network meta-analysis, encompassing 16 RCTs and 2011 patients randomised to six different treatments to salvage synthetic AV grafts, reports that stent grafts appear to perform better than plain balloon angioplasty in decreasing the failure risk at three months. This network meta-analysis is however unable to assess consistency between direct and indirect evidence.

Invited commentary

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G.A. Antoniou and S.A. Antoniou

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F.K. Enzmann, P. Nierlich, S.K. Eder, M. Aspalter, W. Dabernig, T. Aschacher, K. Linni and T.J. Hölzenbein
- Trans-iliac bypass grafting is an alternative extra-anatomic bypass technique in patients with vascular groin complications. In this small series (n = 8), patency as well as limb salvage and survival are good and may be comparable to those reported for autologous *in situ* repair and obturator canal bypass grafting.
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- 944 **Erratum to ‘Long-term Survival and Risk Analysis in 136 Consecutive Patients With Type B Aortic Dissection Presenting to a Single Centre Over an 11-year Period’ [European Journal of Vascular & Endovascular Surgery 57/5 (2019) 633–8]**
R.E. Clough, D. Barillà, P. Delsart, G. Ledieu, R. Spear, S. Crichton, C.M. Vehier, J. Peacock, J. Sobocinski and S. Haulon

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C. Quintero-Pérez and F. Manresa-Manresa
- 838 **Radial Artery Mycotic Aneurysm**
B. Gabriel and K. Marek

ESVS ABSTRACTS

- eSupplement 58/6S1 Book of Abstracts -
The European Society for Vascular Surgery 31st Annual Meeting 2017
- eSupplement 58/6S2 Book of Abstracts -
The European Society for Vascular Surgery 32nd Annual Meeting 2018
- eSupplement 58/6S3 Book of Abstracts -
The European Society for Vascular Surgery 33rd Annual Meeting 2019

Editor's Choice: This paper has been selected by the Editor to be made freely available online.

 Additional material available online: <http://www.sciencedirect.com/science/journal/10785884/58>