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W.D. Clouse, L.T. Boitano, E.A. Ergul, V.S. Kashyap, M.B. Malas, P.P. Goodney, V.I. Patel and M.F. Conrad
- This analysis from the Vascular Quality Initiative reports a non-ipsilateral peri-operative stroke rate of 0.6% (491/80,230 CEA). Major predictors include contralateral occlusion, CEA combined with other procedures, and haemodynamic fluctuations.
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- 626 **Let's Talk Big Data**
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- 627 **Long-Term Outcome of Symptomatic Patients Undergoing Hybrid Revascularisation for Extracranial Carotid Artery Tandem Stenosis**
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- This small series (n = 16) reports no 30-day death, stroke, or TIA after hybrid revascularisation of extracranial carotid artery tandem stenosis. However, during a median follow up of 73 months, the incidence of adverse events, including death, stroke, or MI, is high.
- Invited commentary
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- 633 **Editor's Choice – 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**
R.E. Clough, D. Barillà, P. Delsart, G. Ledieu, R. Spear, S. Crichton, C. Mounier Vehier, J. Peacock, J. Sobocinski and S. Haulon
- In this study (mean follow up = 51 months), one and five years overall survival is 94.0% and 74.8%, and freedom from aortic events is 75.6% and 58.7%, respectively. The occurrence of late aortic events emphasises the need for lifetime surveillance.
- 639 **Elective Fenestrated and Branched Endovascular Thoraco-abdominal Aortic Repair with Supracoeliac Sealing Zones and without Prophylactic Cerebrospinal Fluid Drainage: Early and Medium-term Outcomes**
M.T. Juszczak, A. Murray, A. Koutsoumpelis, M. Vezzosi, J. Mascaro, M. Claridge and D.J. Adam
- In this series (n = 270), 30 day mortality and rate of major complications are 0.4% and 11.4%, respectively, after elective endovascular thoraco-abdominal aortic repair. Estimated three year survival and freedom from re-intervention are 73.8 ± 3.5% and 79.5 ± 3.2%, respectively. Selective staging without prophylactic CSF drainage seems to contribute to a significant reduction in the incidence of spinal cord ischaemia.

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A. Tanaka, H.K. Sandhu, A. Perlick, C.C. Miller III, N.U. Saqib, H.J. Safi and K.M. Charlton-Ouw
- In this study (n = 122), an occluded superficial femoral artery (SFA) predicts a fourfold increased hazard of primary aortofemoral bypass (AFB) failure. However, concomitant SFA revascularisation does not improve AFB durability but is associated with increased in hospital mortality.

PERIPHERAL ARTERIAL DISEASE

- 658 **Population Based Analysis of Gender Disparities in 23,715 Percutaneous Endovascular Revascularisations in the Metropolitan Area of Hamburg**
C.-A. Behrendt, M.S. Bischoff, T. Schwaneberg, R. Hohnhold, H. Diener, E.S. Debus and H.C. Rieß
- In this study (23,715 procedures including 9415 in females), female patients are older, and more often have rest pain, develop major bleeding complications, and are transferred to nursing home. Further studies assessing a gender based treatment algorithm in PAD are needed.
- Invited commentary**
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H.P. Ebben, V. Jongkind, W. Wisselink, A.W.J. Hoksbergen and K.K. Yeung
- This systematic review, encompassing 106 studies and 9877 patients, shows that catheter directed thrombolysis is effective to treat peripheral arterial occlusions but is associated with significant bleeding complications. Lower doses of fibrinolytics achieve similar success rates at a cost of longer treatment duration but with less bleeding.
- 676 **Treadmill Measured vs. Questionnaire Estimated Changes in Walking Ability in Patients With Peripheral Artery Disease**
S. Henni, M. Ammi, Y. Semporé, J. Hersant, G. Zegar, A.-S. Gourdier, J. Picquet and P. Abraham
- This study (346 patients with intermittent claudication) reports that changes in the Walking Estimated Limitation Calculated by History (WELCH) questionnaire scores correlate with the maximum treadmill walking time. For long test-retest intervals, WELCH changes overestimate the worsening of walking impairment.

VENOUS DISEASE

- 685 **Editor's Choice – A Systematic Review and Meta-Analysis of the Efficacy and Safety of Anticoagulation in the Treatment of Venous Thromboembolism in Patients with Cancer**
G.I. Kirkilesis, S.K. Kakkos and I.A. Tsolakis
- This meta-analysis, encompassing 23 studies and 6980 patients, demonstrates that, compared with vitamin K antagonists (VKAs), low molecular weight heparins (LMWHs) and direct oral anticoagulants (DOACs) are more effective in treating VTE, but the former cause less bleeding. DOACs are more effective than LMWHs in preventing VTE recurrence but may carry a higher risk of major bleeding.
- 702 **A Wearable Compression Device to Normalise Calf Muscle Pump Function in Chronic Venous Insufficiency for Each Postural Position**
G. Mosti and H. Partsch
- This study (n = 16) demonstrates that portable, battery driven compression devices are comfortable at rest and haemodynamically effective during walking by automatically adjusting compression pressure to body position.

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S.P. Overeem, J.-P.P.M. de Vries, J.T. Boersen, C.H. Slump, M.M.P.J. Reijnen, M. Versluis and E. Groot Jebbink

This *in vitro* study assessed, using laser particle imaging velocimetry, the most favourable configurations of a custom, non-contained, non-cross linked polymer based endovascular approach by identifying flow velocity, vorticity, wall shear stress, and time averaged wall shear stress.

VASCULAR ACCESS

- 719 **Mineral Metabolism Disturbances and Arteriovenous Fistula Maturation**
R.W. Kubiak, L.R. Zelnick, A.N. Hoofnagle, C.E. Alpers, C.M. Terry, Y.-T. Shiu, A.K. Cheung, I.H. de Boer, C. Robinson-Cohen, M. Allon, L.M. Dember, H.I. Feldman, J. Himmelfarb, T.S. Huber, P. Roy-Chaudhury, M.A. Vazquez, J.W. Kusek, G.J. Beck, P.B. Imrey, B. Kestenbaum and on behalf of the Hemodialysis Fistula Maturation Study Group

This prospective, multicenter study (n = 540) reports that serum metabolism markers, including parathyroid hormone, calcium, phosphate, and vitamin D metabolites, are not significantly associated with vein histology characteristics, unassisted AVF maturation failure, or overall maturation failure.

Invited commentary

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- 730 **Lightweight Lead Aprons: The Emperor's New Clothes in the Angiography Suite?**
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Lead containing and lead free composite garments provide less radiation protection than manufacturer stated lead equivalence. Wide variations in attenuation of scatter radiation exist and most garments do not comply with labelling standards.

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

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