

One year on: Test your knowledge from the previous year

1. Dual antiplatelet treatment as secondary prevention¹

- A. Should be used in all patients with peripheral arterial disease (PAD)
- B. Should be used in all patients with critical limb ischemia (CLI)
- C. Should be used after all open and endovascular limb revascularization
- D. Should be used after all endovascular limb revascularization
- E. Is not supported by current evidence in PAD

2. Which of the following variables is NOT included in the calculation of the Glasgow Aneurysm Score:²

- A. Renal dysfunction
- B. ST elevation of > 2 mm on the ECG.
- C. Age
- D. Shock
- E. Gender

3. Inelastic material³

- A. Increases ejection fraction but does not influence venous reflux
- B. Increases ejection fraction, counteracts venous reflux and reduces ambulatory venous hypertension
- C. Does not significantly increase ejection fraction
- D. Does not significantly increase ejection fraction and is ineffective in reducing venous reflux
- E. Increases ambulatory venous hypertension

4. Threshold based segmentation is:⁴

- A. Segmentation that includes or excludes a pixel based on its intensity, thereby creating a binary image
- B. Segmentation that compares a pixel with its neighbours, working with the assumption that neighbouring pixels within one anatomical region have similar intensity values
- C. Segmentation that considers the image as a topographic surface
- D. Segmentation in which an edge filter is applied to the image, and where pixels are classified as edge or non-edge depending on the filter output
- E. Segmentation that cannot be applied to PET CT images

5. Which of the following is the most appropriate management of spontaneous isolated superior mesenteric artery dissection presenting with abdominal pain?⁵

- A. Conservative treatment including bowel rest and pain control
- B. Laparoscopic exploration
- C. Thrombolytic therapy
- D. Open surgical repair
- E. Endovascular stent insertion

6. Graduated elastic compression stockings have been shown to improve pain or aching complaints in patients with varicose veins. Which compression level at the ankle level has been shown to be effective based on evidence derived from randomized controlled trials?⁶

- A. 10-21mmHg
- B. 22-32mmHg
- C. 34-40mmHg
- D. 41-48mmHg
- E. >49mmHg

7. The mean number of visceral and renal arteries targeted for preservation in acute TAAA was lower than reports in elective TAAA repair in the series reported by Mascoli et al. The percentage of patients in this series presenting with pre-existing occlusion of one or more native branch vessels was approximately:⁷
- A. 20%
 - B. 30%
 - C. 40%
 - D. 50%
 - E. 60%

References

- 1 Norgren L, Patel MR, Hiatt WR, Wojdyla DM, Fowkes FGR, Baumgartner I, et al. Outcomes of Patients with Critical Limb Ischaemia in the EUCLID Trial. *Eur J Vasc Endovasc Surg* 2018;**55**:109–17.
- 2 Chowdhury MM, Zieliński LP, Sun JJ, Lambracos S, Boyle JR, Harrison SC, et al. Editor's Choice – Calcification of Thoracic and Abdominal Aneurysms is Associated with Mortality and Morbidity. *Eur J Vasc Endovasc Surg* 2018;**55**:101–8.
- 3 Mosti G, Partsch H. A New Two Component Compression System Turning an Elastic Bandage into an Inelastic Compression Device: Interface Pressure, Stiffness, and Haemodynamic Effectiveness. *Eur J Vasc Endovasc Surg* 2018;**55**:126–31.
- 4 Indrakusuma R, Zijlmans JL, Jalalzadeh H, Planken RN, Balm R, Koelemay MJW. Psoas Muscle Area as a Prognostic Factor for Survival in Patients with an Asymptomatic Infrarenal Abdominal Aortic Aneurysm: A Retrospective Cohort Study. *Eur J Vasc Endovasc Surg* 2018;**55**:83–91.
- 5 Kim H, Park H, Park SJ, Park BW, Hwang JC, Seo YW, et al. Outcomes of Spontaneous Isolated Superior Mesenteric Artery Dissection Without Antithrombotic Use. *Eur J Vasc Endovasc Surg* 2018;**55**:132–7.
- 6 Kakkos SK, Timpilis M, Patrinos P, Nikolakopoulos KM, Papageorgopoulou CP, Kouri AK, et al. Acute Effects of Graduated Elastic Compression Stockings in Patients with Symptomatic Varicose Veins: A Randomised Double Blind Placebo Controlled Trial. *Eur J Vasc Endovasc Surg* 2018;**55**:118–25.
- 7 Mascoli C, Vezzosi M, Koutsoumpelis A, Iafrancesco M, Ranasinghe A, Clift P, et al. Endovascular Repair of Acute Thoraco-abdominal Aortic Aneurysms. *Eur J Vasc Endovasc Surg* 2018;**55**:92–100.

Answers from the previous issue (December 2018)

1C, 2D, 3C, 4A, 5C, 6D, 7A, 8C, 9A.