



**Michelle Cooper** has completed this personal reflection on **17/05/2022**

**Paper:** Spring 2022 CPD Questions

**Personal Reflection:**

Description of the learning: questions based on two research papers focusing on the effectiveness of different imaging techniques for EVAR surveillance. Paper 1: Post-operative surveillance and long term outcome after endovascular aortic aneurysm repair in patients with an initial post-operative CTA without abnormalities: the multicentre retrospective ODYSSEUS study (Geraedts et al.). Paper 2: EVAR follow-up with ultrasound superb microvascular imaging (SMI) compared to CEUS and CTA for detection of type II endoleak (Curti et al.)

Evaluation and analysis.

Paper 1: Discontinued follow up (>16 months since assessment) is not associated with increase aneurysm related mortality or an increased of secondary interventions. It was therefore proposed that imaging follow up may be safely reduced in some patient groups; further prospective studies are required to define this group of patients.

Paper 2: SMI and CEUS presented the same sensitivity, specificity, positive and negative prective values and diagnostic accuracy when used to assess for endoleaks. The diagnostic accuracy of SMI is comparable withy CEUS in the identification of type II endoleaks after EVAR. SMI is less invasive (no cannulation and contrast required), less expensive and less time-consuming, this technique may be a considered a technique for monitoring patients post EVAR. However, SMI technology is currently only available on Toshiba ultrasound machines.