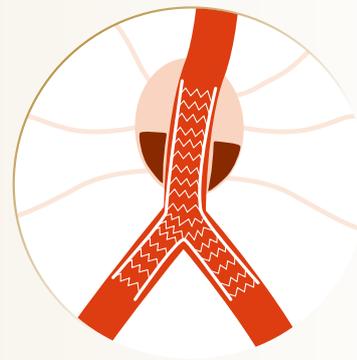


# INTRA-OPERATIVE COIL EMBOLISATION IMPROVES EVAR RESULTS

## THE PROBLEM

Persistent Endoleak Type II  
**is not a rare complication**  
and it could require  
**reinterventions.**

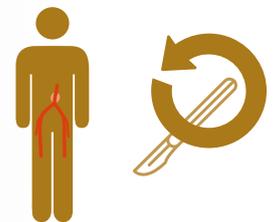


Incidence for **type II endoleaks after Endovascular Aneurysm Repair** is reported to be

**10-26%**<sup>1,2</sup>

While type II endoleaks often heal spontaneously, there is still a **high reintervention rate of**

**19-26%**<sup>1,2</sup>



## CONSEQUENCES



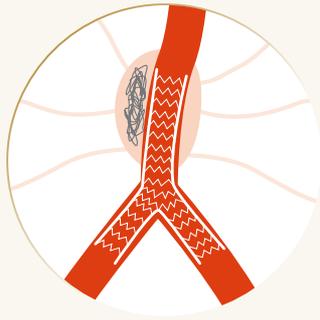
**Reinterventions** are associated with **additional patient risk and costs.** Endovascular reinterventions are reported to have a poor effectiveness on the stabilization of the diameter of the AAA. While involving high cost and high rates of morbidity.<sup>3</sup>

**TYPE II ENDOLEAK**



Therefore, it is **important to prevent, rather than to treat,** the adverse events that could arise from type II endoleak, to improve the outcomes of EVAR.

# PREDICTIVE FACTORS



Studies have demonstrated the **efficacy, safety and reproducibility of intra-operative coil embolisation** of the aneurysmal sac during EVAR for patients at risk for Type II Endoleak, with **no immediate or short-term major complications**<sup>4,5</sup>



## Predictive Factors for high risk patients:<sup>5,6</sup>

- **Aneurysm dimension > 125 cm<sup>3</sup>**
- **Thrombus volume < 40%** of the total volume of aneurysm
- **Patent IMA of ≥ 3 mm** in diameter
- **Patency of ≥ 6 afferent visceral vessels** – LA, IMA, accessory renal and sacral arteries

# OUTCOMES

The **sac embolisation group** had **significantly lower Endoleak Type II incidence and reintervention rates** than the no embolisation group.



**72%**

Type II endoleak incidence<sup>4</sup>

**12.5%**

Reintervention<sup>5</sup>



**20%**

**1.2%**



Successful embolisation of Endoleak Type II can eliminate or at least reduce the need for lifelong follow-up imaging studies, an important goal in **improving patient satisfaction and the economics** of the endovascular approach to aneurysm repair.

1 Sidloff et al. Type II endoleak after endovascular aneurysm repair. Br J Surg. 2013 Sep;100(10):1262-7.  
2 Guo et al. Prevalence and risk factors of type II endoleaks after endovascular aneurysm repair: A meta-analysis. PLoS One. 2017; 12(2): e0170600.  
3 Jouhannet et al. Reinterventions for type 2 endoleaks with enlargement of the aneurysmal sac after endovascular treatment of abdominal aortic aneurysms. Ann Vasc Surg. 2014 Jan;28(1):192-200.  
4 Fabre et al. Type II endoleak prevention with coil embolization during endovascular aneurysm repair in high-risk patients. J Vasc Surg. 2015 Jul;62(1):1-7.  
5 Mascoli et al. Selective Intra-procedural AAA sac Embolization During EVAR Reduces the Rate of Type II Endoleak. Eur J Vasc Endovasc Surg. 2016 May;51(5):632-9.  
6 Boston Scientific Advisory Board, Milan December 2019

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