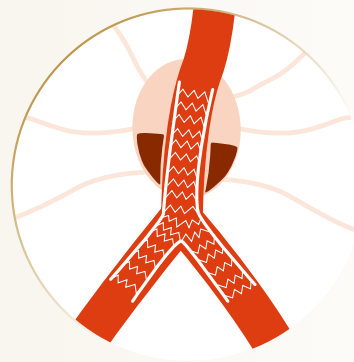


INTRA-OPERATIVE COIL EMBOLISATION IMPROVES EVAR RESULTS

THE PROBLEM

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

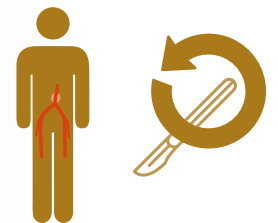


Incidence for **type II endoleaks after
Endovascular Aneurysm Repair**
is reported to be

10-26 %^{1,2}

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

19-26 %^{1,2}



CONSEQUENCES



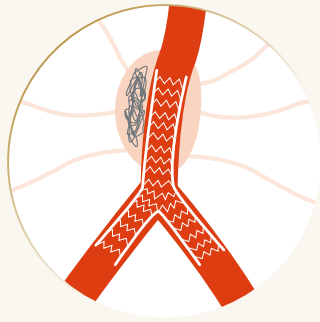
Reinterventions are associated with
additional patient risk and costs.
Endovascular reinterventions are reported
to have a poor effectiveness on the
stabilization of the diameter of the AAA.
While involving high cost and high rates of
morbidity.³

TYPE II ENDOLEAK

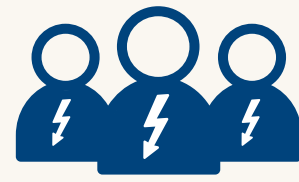


Therefore, it is **important to prevent,**
rather than to treat, the adverse events that
could arise from type II endoleak, to improve the
outcomes of EVAR.

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**^{4,5}

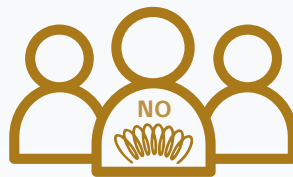


Predictive Factors for high risk patients:^{5,6}

- **Aneurysm dimension > 125 cm³**
- **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 incidence⁴

12.5%

Reintervention⁵



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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