

CONTROVERSES ET ACTUALITÉS EN CHIRURGIE VASCULAIRE
CONTROVERSIES & UPDATES IN VASCULAR SURGERY

JANUARY 19-21 2017

MARRIOTT RIVE GAUCHE & CONFERENCE CENTER

PARIS, FRANCE



EVAR or PEVAR?

A cost-benefit analysis



Disclosure

Speaker name:

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- ☒ I have the following potential conflicts of interest to report:
- ☒ Consulting Cordis
- ☐ Employment in industry
- ☐ Shareholder in a healthcare company
- ☐ Owner of a healthcare company
- ☐ Other(s)
- ☐ I do not have any potential conflict of interest



Disclosure

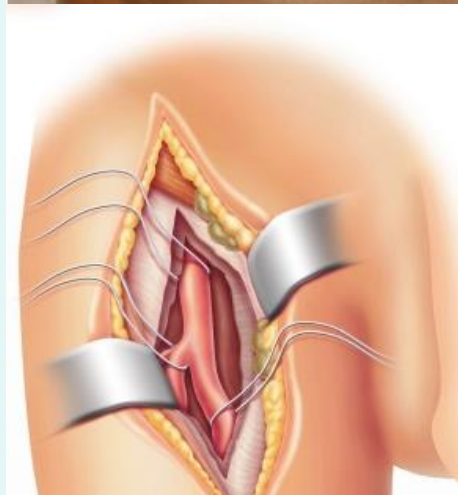
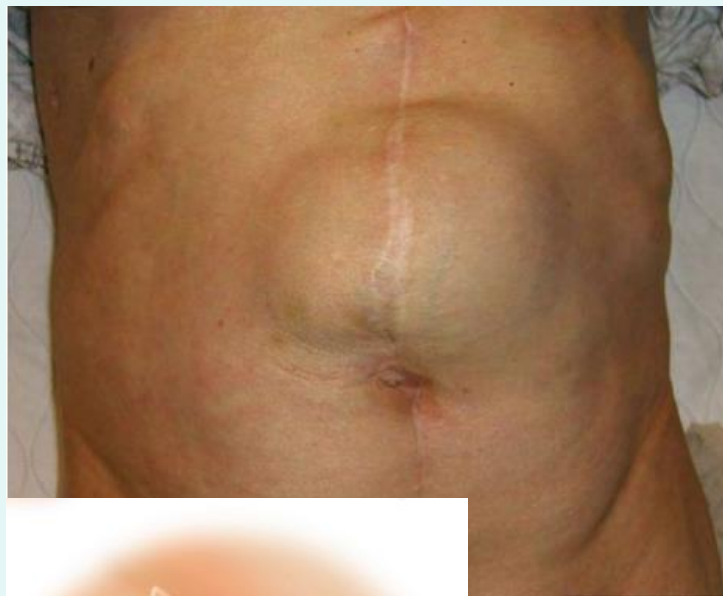
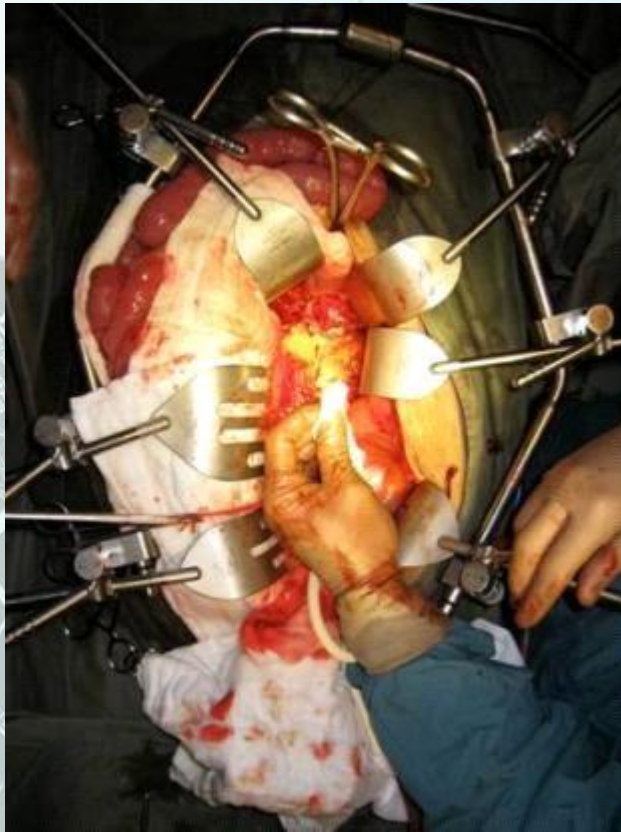
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Feasibility

« PEVAR is save and effective, with minimal access-related complications, and noninferior to standard open femoral exposure » Vercauteren, Endovascular Today, March 2014

« There are sufficient data demonstrating the advantages of PEVAR compared to EVAR » Echeverria, Vascular Disease Management, 2016.

*« With proper selection, the PEVAR failure rate is low »
M. Rijkee, EJVES, 2014*



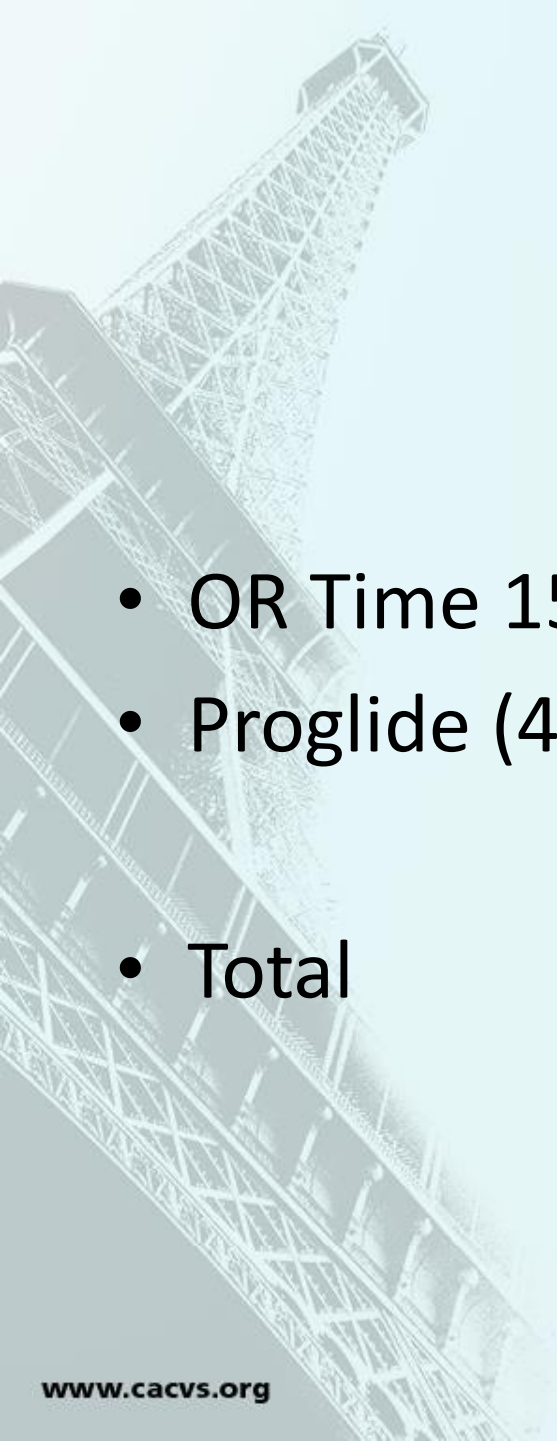
Costs EVAR

Preparing and closing the groin

– 45 minutes OR time(€ 1250 per hour)	€ 940
– Sutures	€ 50
– Total	€ 990



Costs of PEVAR



• OR Time 15 minutes	€ 312
• Proglide (4, € 187)	€ 748
• Total	€ 1060



Costs-benefit

EVAR vs PEVAR: € 70 in favour of EVAR!

BUT.....



What is in favour of PEVAR?

- Patient satisfaction
- Groin infections up to 20%
- Femoral nerve injury
- Blood loss and hemostatics
- Length of stay





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11% of patients experience damage of cutaneous branches of the femoral nerve after exposure of the femoral artery



What is in favour of PEVAR?

- Patient satisfaction
- Groin infections up to 20%
- Femoral nerve injury
- Blood loss and hemostatics
- Length of stay



PEVAR COSTS

« Hospital length of stay, operating room duration and total costs are similar for unsuccessful PEVAR and EVAR completed with cutdown »

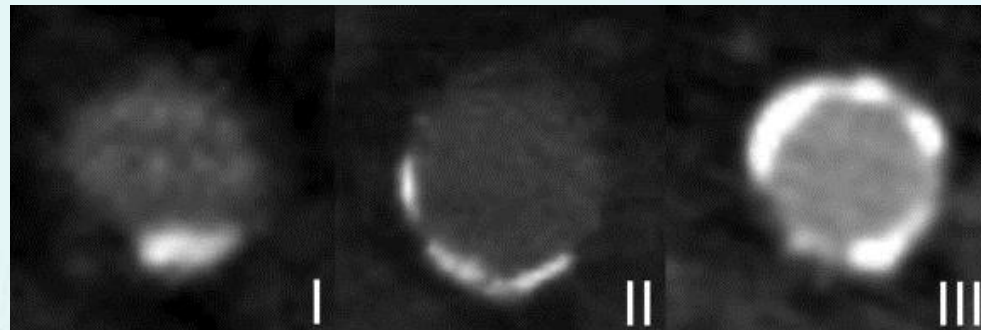
« PEVAR may be reasonable unless there is a serious concern for failure »

O'Brien, JVS, Dec 2016



PEVAR: Failure

- Predictors of Failure of Closure in Percutaneous EVAR Using the Prostar XL Percutaneous Vascular Surgery Device
 - M Rijkee et al. European Journal of Vascular and Endovascular Surgery Nov 2014
- Failure rate 6,5%
- Larger sheath size is a predictor of failing closure devices, especially when combined with a high calcification score

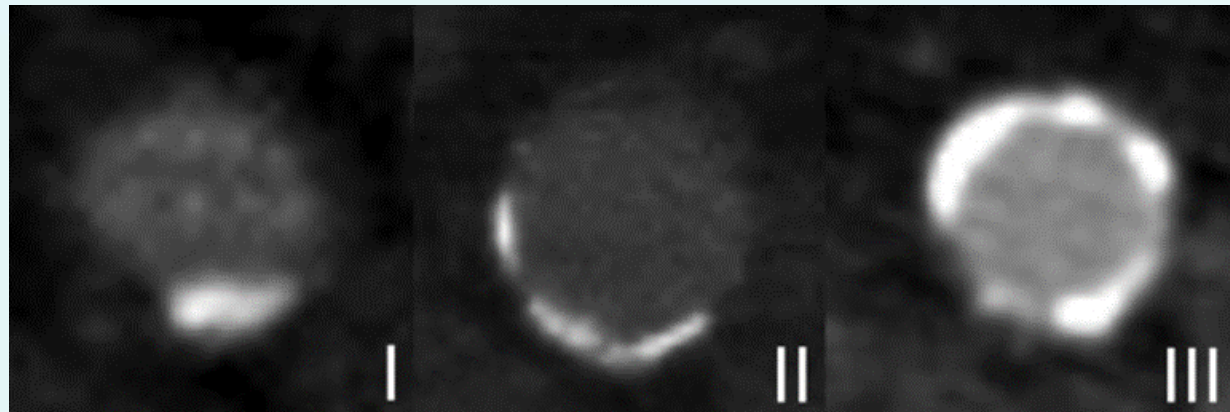




Successful PEVAR

Good closure device

Pre-operative evaluation of calcification



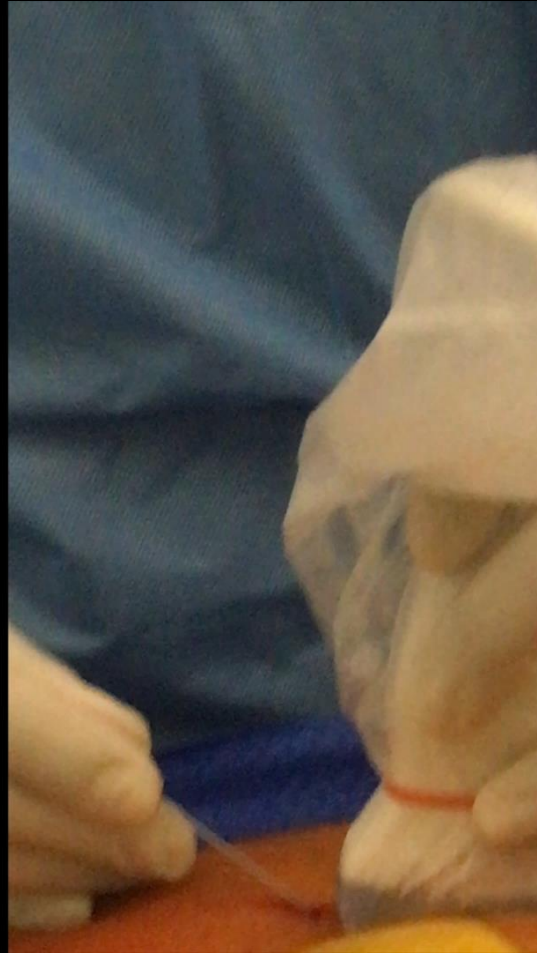


Succesfull PEVAR

Good closure device

Pre-operative evaluation of calcification

Ultrasound guided puncture





Successful PEVAR

Good closure device

Pre-operative evaluation of calcification

Ultrasound guided puncture

Low profile device





Conclusion

PEVAR..

- ..is feasible
- ..is cost-effective
- ..improves patient satisfaction
- ..is the next step in endovascular aneurysm treatment



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