

# Management of **Failed EVAR**

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PRESENTED BY:



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failed EVAR**

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BACKGROUND

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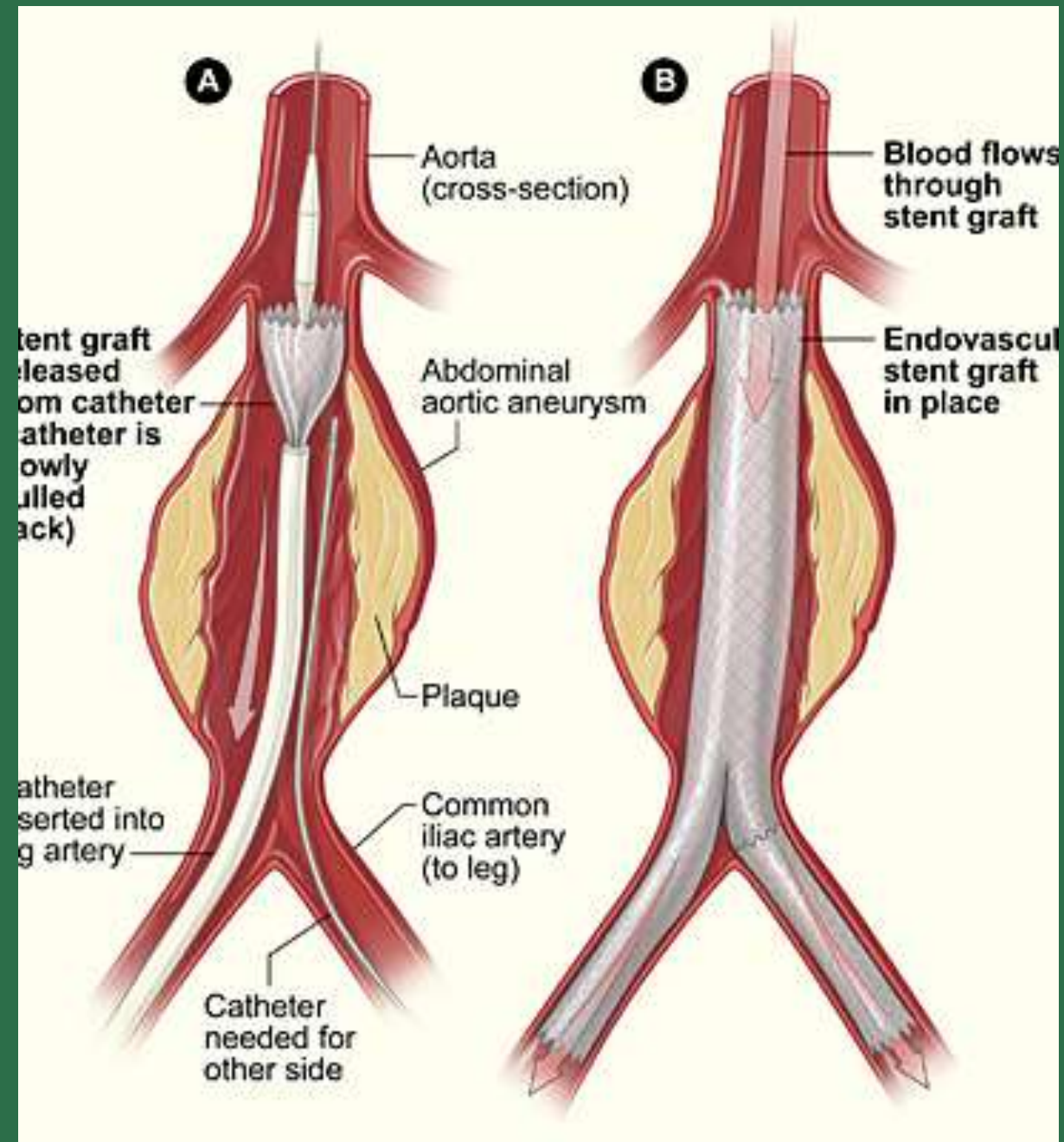
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- EVAR has become the primary solution to the Abdominal aortic aneurysm (AAA) (Turney, 2013).
- It is the far safer and effective method compared to open repair surgery due to less mortality and morbidity chances (Wu, 2015).
- Compared to open surgery, EVAR is associated with effective early and late outcomes. Therefore, EVAR is the choice of majority of patients having AAA.

WHAT IS  
EVAR?

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02



## Endovascular aneurysm repair

Endovascular aneurysm repair (EVAR) is a medical technique used to manage the AAA.

It lowers the chances of aorta rupture by lining the aneurysm with a new tube called *stent graft*.

FAILED EVAR

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- Nevertheless, there are complications for graft-related treatment that often lead to failed EVAR.
- The “failed EVAR” is a dynamic process that occurs due to multiple factors (Ibrahim, 2022; Jacobs, 2021; Turney, 2013):
  - Device fracture or failure
  - Graft infection
  - Aneurysm growth
  - Migration
  - Component replication



Endoleak

Migration

Causes of  
**FAILED EVAR**

Progression of  
aortic disease

Iliac limb occlusion

Endoleak

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04

- Endoleak is a post-EVAR failure.
- It is the continuous flow of blood outside the lumen of endograft and in the aneurysm sac (Chaikoo, 2002).
- A research conducted by Schanzer (2011) reported that about 32% of patients after EVAR ended up endoleak whereas about 21% experience the enlargement of sac
- The presence of endoleak increase the chances of secondary treatment (Sternberg, 2008).

# CAUSES OF EVAR FAILURE

Multiple factors led to the EVAR failure

- The patient's condition
- The devices used for lining the rupture
- And physician

How to prevent  
Failed EVAR?

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- Long-term follow up can help early diagnosis of failed EVAR .  
However, addressing the causes of failed EVAR can help prevent the problem.
- These include:
- Improving the quality of device used for lining such as compliance with IFU (Ibrahim, 2022).
- Condition of patient

Treatment of  
Failed EVAR?

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06

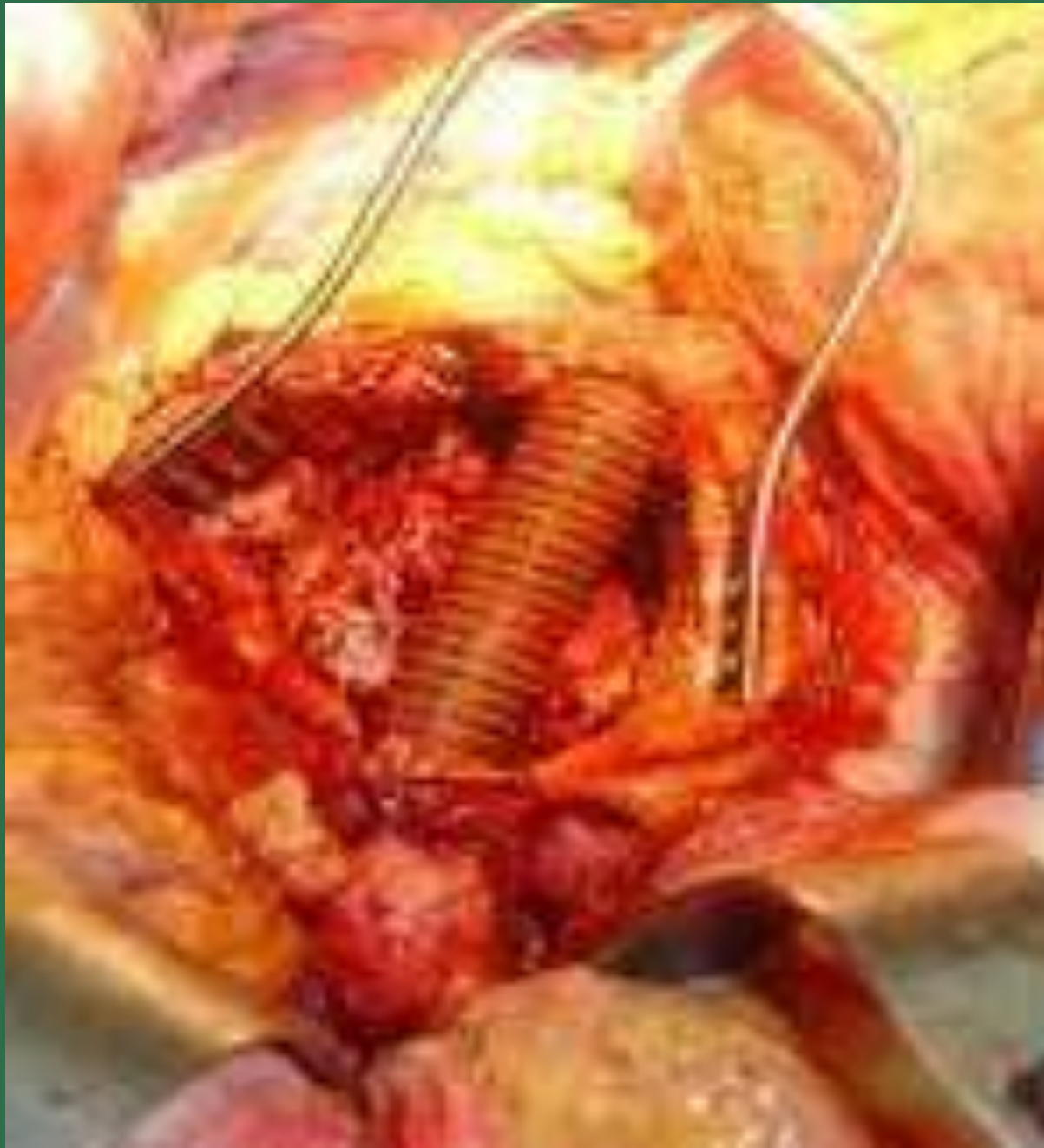
- . The methods to repair a failed EVAR are as follow:
- . Implantation or fenestrated-branched EVAR (Dias, 2018)
- . Open surgery (Nabi, 2009) or exclusion of original device (Mathew, 2016)
- . Endograft removal



Open Repair

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07

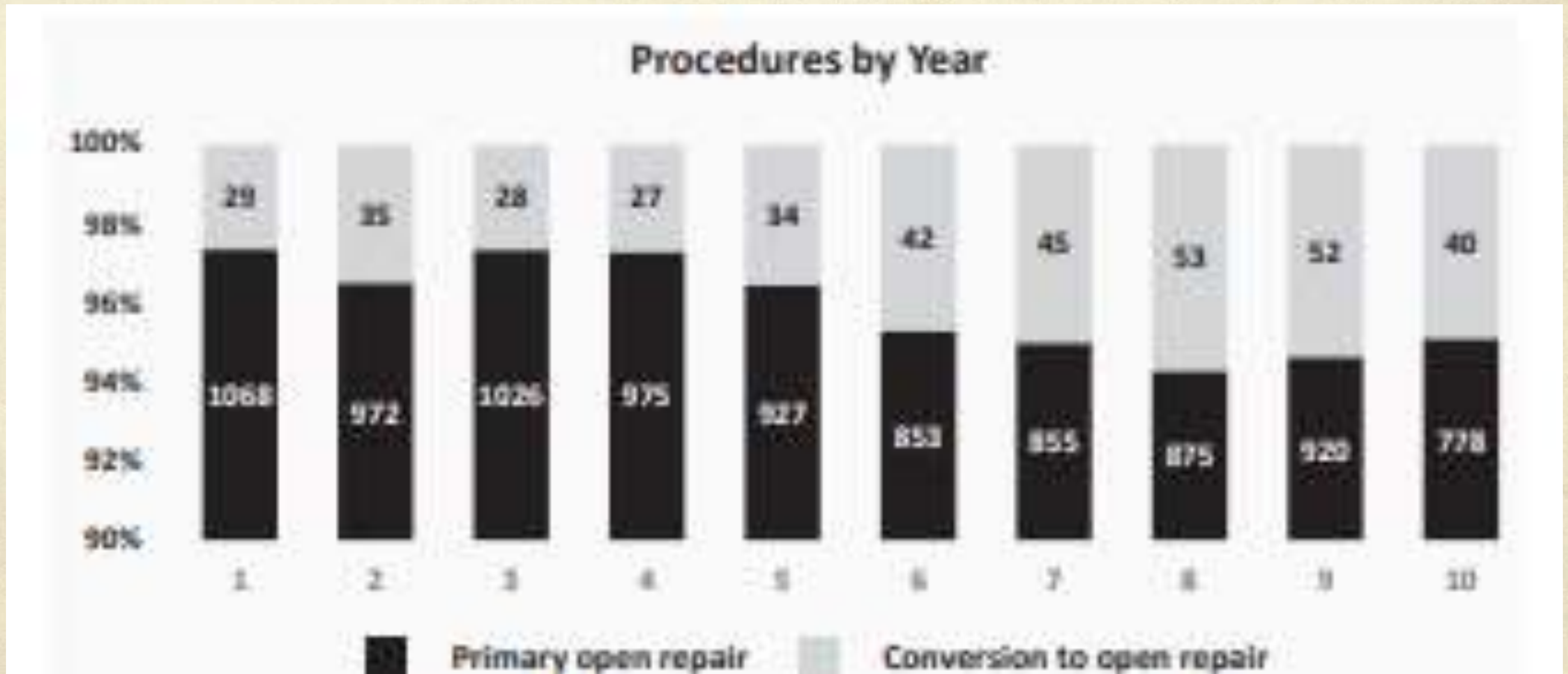


Open repair

Since the use of EVAR has increased, there is increasing trend of open repair after aortic stent grafting.

The open surgery is a challenging process as the rate of death and morbidity are higher. Moreover, the complications associated with open surgery are enormous.

# The trend of secondary open repair after failed EVAR



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# THANK YOU!

Write a closing statement or  
call-to-action here.

