

## **ABSTRACT SUBMISSION**

**Endovascular Aneurysm Repair: Paradigm shift in surgical treatment.**

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### **Abstract**

#### **Background**

Aortic aneurysm incidence is increasing in Kenya. Open surgical repair has been the standard of care. We present five cases of endovascular aneurysm repair at a single centre over a period of 19 months. This technique may be a suitable alternative to open repair, especially in a low volume centre and provide a higher success rate of repair.

#### **Objective**

To study the efficacy of endovascular repair of aortic aneurysm and dissection in sub Saharan population.

#### **Methods**

We report our experience of the management of aortic aneurysms using endovascular aneurysm repair stents between Januarys 2018 to July 2019. Total of 11 cases were treated, of which 7 were male and 4 female. Age varied from 47-68 years. One of the female patient has rupture of the thoracic aneurysm and had TEVAR on an emergency basis. All patients had Valiant Captivia stent (Medtronic) as per the individual measured size.

#### **Results:**

There was 1 mortality. This patient had acute rupture proximal to the stent site in the immediate post-operative period and another one patient had superficial groin infection which was treated with antibiotics. All the patient did well and was discharged in 5 days, except for the female patient as an emergency, who was discharged on the 10<sup>th</sup> day.

#### **conclusion**

In a low volume centre, endovascular repair may be a preferable approach with 30 day outcomes similar to high volume open repair centres. We conclude that this is an ideal treatment methodology instead of open surgery which has high morbidity and mortality.

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