

**#8 ENDOVASCULAR REPAIR OF RUPTURED INFRA-RENAL
ABDOMINAL AORTIC ANEURYSMS**

Karthikeshwar Kasirajan, M.D., P.M. Anain, M.D.,
John Blebea, M.D., A. Salem, M.D., Elliot Chaikof, M.D.

Emory Clinic, Atlanta, GA

Background: Open surgical repair of patients presenting with a ruptured abdominal aortic aneurysm (AAA) continues to be associated with a high mortality. We report the results of emergency repair of ruptured AAA using endoluminal techniques.

Methods: Retrospective review of emergency endografts placed at 4 separate institutions was analyzed. A total of 9 patients were identified (mean age 75±9, males 9)

Results: Three patients presented with hypotension and six others had a contained leak identified on CT scan. All patients had a CT scan prior to endoluminal stent placement. The mean aneurysm diameter was 7.3 ± 1.5 cm. Overall, 7 patients had significant co-morbid factors (cardiac 6, COPD 2, renal failure 2, cirrhosis 2). General anesthesia was used in three patients, regional in four patients, and local in two patients. The majority of patients (*n*=7) had a bifurcated endograft, while two patients had an aorto-monoiliac device with a contralateral iliac occluder and a femoral-to-femoral crossover graft. Mean operative time was 98±8-mins and four patients required two or more units of blood transfusion. Endograft types were AneuRx in five and Ancure in four patients. One patient with CHILD C Cirrhosis died in the post-operative period with a mortality in this collected series of 11%. Total length of hospital stay was 4.5±2days. During a mean follow-up of 16.6±12 mos, no patient had an endoleak, an increase in the aneurysm diameter, or a need for a secondary intervention.

Conclusion: Our experience supports the use of endograft repair of a leaking aneurysm in patients who have suitable anatomy. However, limited availability of experienced support staff and a requirement for a variety of off-the-shelf endografts of varied dimensions may be limiting steps in the emergency use of aortic endografts.