The Value of Open Surgery in Era of EVAR

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TCTAP 2018

Disclosures

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No Conflict of Interest to report



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Open Surgery

Туре

Vascular Primary Conversion or Secondary Conversion Other Non Vascular Gastrointestinal

Timing Preop Not suitable for EVAR Intra op Primary Post op Secondary Early <30 days Late <30 days

Open Repair



Intra operative

Access Femoral Cutdown Conduit

Procedural Complications Rupture Aorta, Iliac Avulsion Mis deployment Graft thrombosis Femoral occlusion, embolus Primary Open Conversion



Post operative Early <30 D

Non Vascular Cholecystectomy Large bowel surgery Upper GI surgery eg bleed Vascular Thromboendarterectomy Early Secondary Open Conversion



Post Operative Late >30 D

Indications Open Conversion

Failed EVAR and / or Progressive Aneurysmal disease With Failed endovascular interventions

Continued expansion>5 mm/yr or Size >6 cm on minor axisEndoleaks type I to 5MigrationEndoleak, Graft Kinking

Infection May have an AEFistula

Thrombosis

Rupture

Multiple reasons Present in more than 50%



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Late Open Conversion

>30 d
Rates 3.7% (0.9 to22.8%)
Number of OC increasing
Can occur anytime 1/3 occur after 5 yr
Decreasing Interval to Open Conversion ? IFU

Increasing and wider number of EVARs Increasing No of EVARs outside of IFU High reintervention rates 28% at 8 years in EVAR 1 Longer follow-up Increasing number of young patients (50 and 64 yr)

Open Conversion

Types

Elective Emergency

Unique Technical Challenges Specific Operative Management

Procedures Depends on indication

Graft Explantation with in situ graft reconstruction Neo Neck Technique Graft Preservation Banding aortic or iliac Ligate branches and evacuate cavity



Outcome of Open Conversion

Overall Mortality 17 to 25% Contemporary Series

Elective Mortality		0-10%	
Emergency Mortality		Improving	
Expansion			22%
Rupture	, Infectior	1	20-67%
Morbidity	Very High up to 40%		
	renal, re	sp, cardia	ac,bowel
Reinforces	Close ar Timely a	nd life long nd planne	g surveillance ed OC
Ideal outcome	Elective Infrarena Preserva	OC al clampir ation of th	ng le endograft

Conclusions

Open Conversion is Increasing Identifying patients who are likely to develop late complications requiring OC is difficult Followup is essential and long term Compliance is a problem Discuss Followup with patient as part of the surgery **Renal Patients alternative imaging** Significant Mortality and Morbidity Improving Planned OC better outcome than emergency Specific technique Infrarenal clamping, Preservation

There will always be a need for open surgery