



Combined cardiac surgery and extraanatomic ascendant aorto-bifemoral bypass: short-term results

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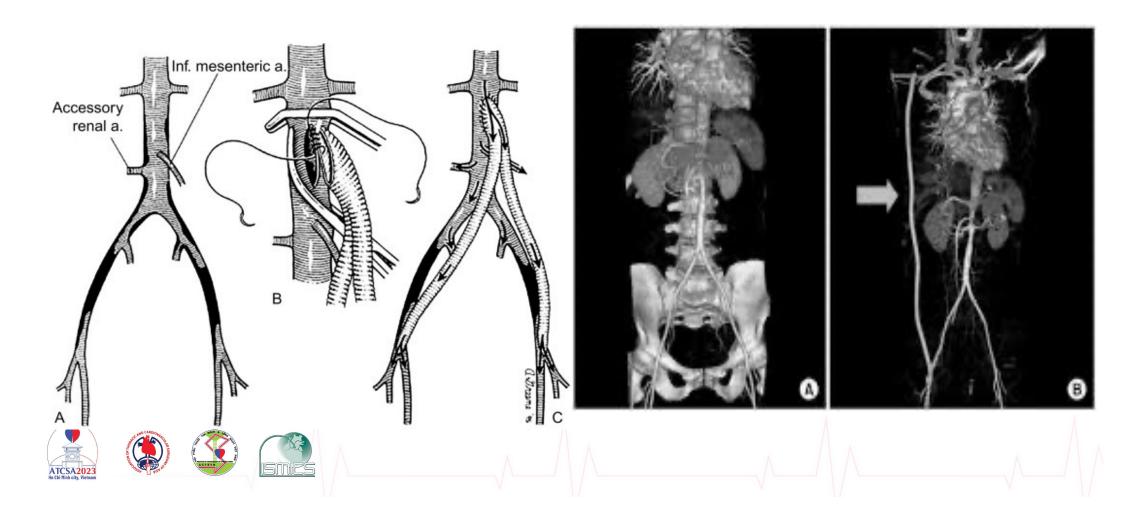
Introduction

-Valvular or coronary artery disease associated with aorto-illiac vascular disease is uncommon but very severe.

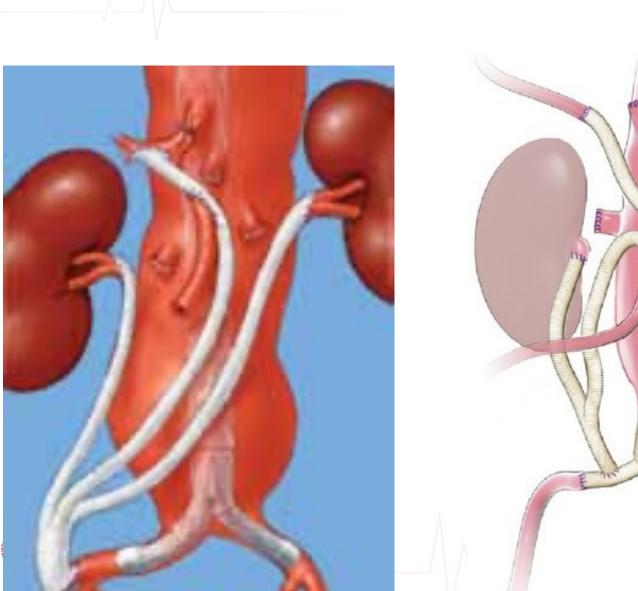
- Two stage operation: (1) abdominal aorto- femoral bypass & (2) cardiac surgery for valvular disease or CABG

-We report the short-term results of 5 cases of single-stage surgery performed cardiac surgery and extra-anatomic ascendant aorta-bifemoral shunt.

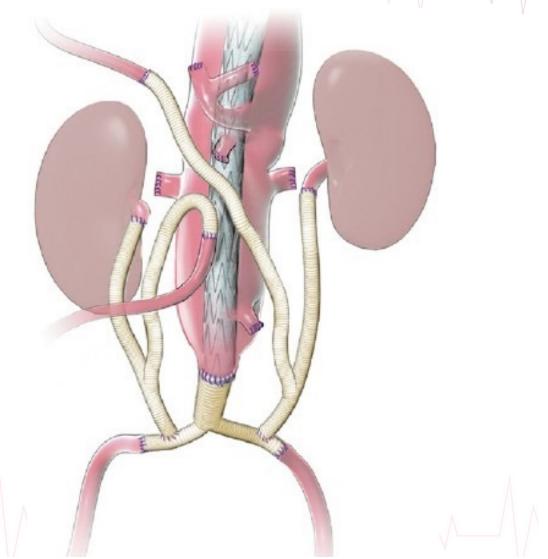












Method

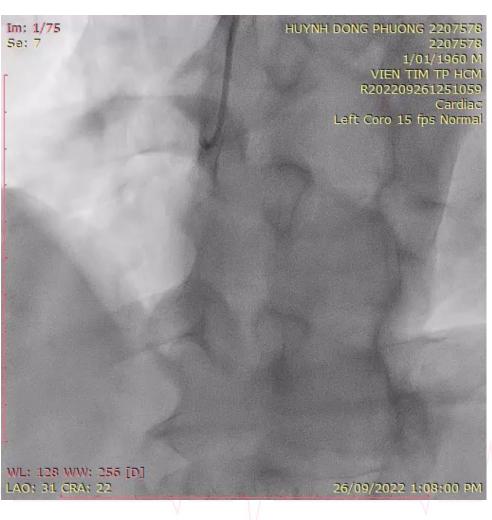
Retrospectively describe **5** cases of single-stage cardiac surgery combined with ascendant aorta-bifemoral artery bypass





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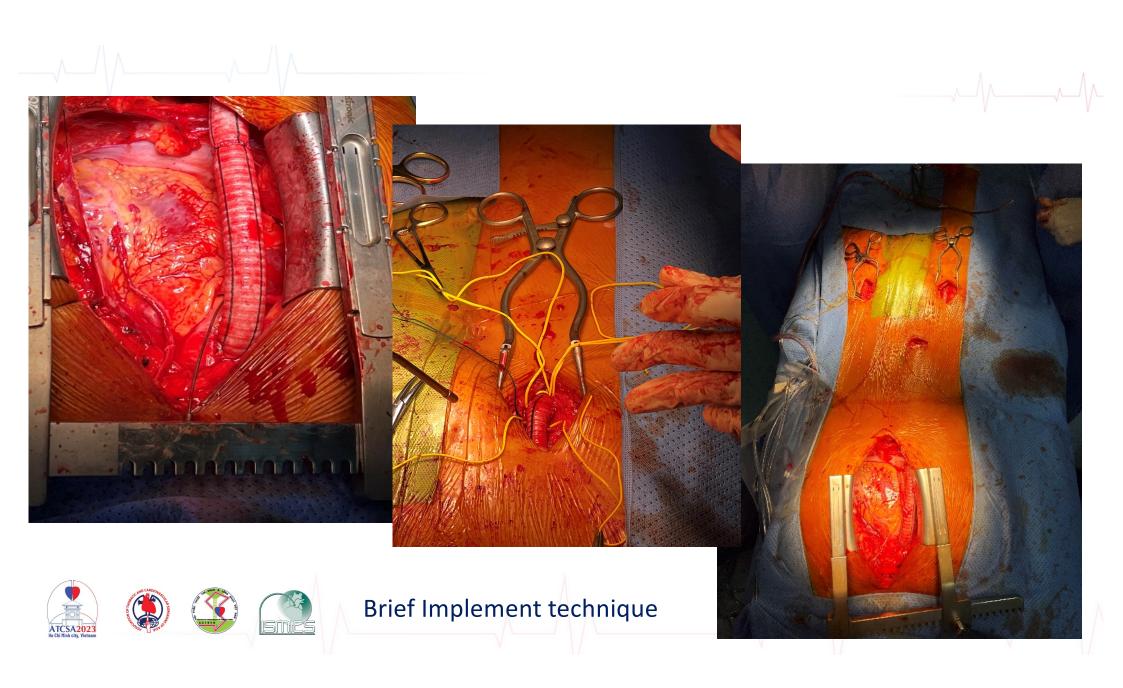
AIOD TASC IID







Patients	Underlying	Heart disease	AIOD	Surgery	Results
	disease				
Pat. N.1, 68 y.o	Hypertensive,	Severe mitral stenosis		MVR (tissue 27) +	Alive, no
	Lipid disorder	MVA#0.6cm2	TASC II D	AABF	complication
		SPAP: 60mmHg			
Pat. N.2, 63 y.o	Hypertensive,	3-vessels disease	TASC II D	1 bypass (LAD)+	Alive, still have leg
	Lipid disorder			AABF	pain (minor)
	Tabagism				
Pat. N.3, 65 y.o	Hypertensive,	3-vessels disease	TASC II D	2 bypass (LAD-	Alive, no
	Lipid disorder,			OM) + AABF	complication
	Diabetes				
Pat. N.4, 68 y.o	Hypertensive,	3-vessels disease	TASC II D	2 bypass (LAD -	Alive, no
	Lipid disorder	С	OM) + AABF	complication	
Pat. N.5, 66 y.o	Hypertensive,	Severe Mitral		MVR (tissue 27) +	Alive, no
	Lipid disorder	regurgitation.	TASC II D	AABF	complication
	Tabagism	MVA#1.2cm2			
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Indication and contra-indication

Indications : endovascular intervention(EVAR) is not possible in the following cases:

- (1) stenosis or occlusion of the iliac artery or severe stenosis abdominal aorta with acute symptoms;
- (2) claudication unresponsive to medical treatment or necrosis, nonhealing lower extremity ulcer or severe lower extremity ischemia (pain at rest, severe intermittent claudication)

(3) Impotence

Contraindications: unable to have general anesthesia, recent CVA or myocardial infarction. Horseshoe kidney, and retroperitoneal fibrosis are also relative contraindications

Follow-up

- Median time of FU: 6 months (4-11)
- No late death, no leg pain
- All have MSCT post-op 3-6 months





Alternative technique

- Suzer 2009 : retro-peritoneal thoracic aorto-femoral bypass
- Baird 1986 : "ventral aorta"
- Stewart 2021: thoracotomy thoracic aorto-femoral bypass
- Bosse 2018 : ascending aorta to left femoral and femoro-femoral bypass



Conclusion

The extra-anatomic AABF bypass is an effective, easy-toimplement, and safe solution in cases requiring cardiac surgery at the same time as acute AIOD.

It also requires a longer follow-up time and a larger number of patients to accurately assess the effectiveness of this combination approach.



