🛟 Inova⁻

Proximalization of Arterial Inflow for Treatment of Hemodialysis Access Induced Distal Ischemia

Homayoun Hashemi MD, FACS

Caila Bachmann BA BS, Michael Parker MD, Taneesha Sardana BA, Lolita Ramsey PHD, Homayoun Hashemi MD,



	Inova ⁻
I have no disclosures	
	2

Introduction

- Hemodialysis access induced distal ischemia (HAIDI)
 Affects anywhere from 1-20% of patients with arteriovenous fistulas (AVF)
- Proximalization of Arterial Inflow (PAI) is known technique for HAIDI management
 Resolve ischemia + maintain patency
- The purpose of our study was to report our experience with and long-term outcomes of PAI

Methods

🛟 Inova⁻

- Single center, retrospective cohort study
- Adults age 18+ with PAI procedure for HAIDI from May 2017 to August 2023
- Surveillance following PAI
 4 weeks, 3 months, 6 months, annually
- A total of 64 patients with PAI were included in the study population

<section-header><section-header><section-header><section-header><list-item><list-item><list-item><list-item><list-item>

			🛟 Inove	
line Demographics	i	i		
	Characteristic		Patient Number (%)	
	Cov	Male	26 (40.6)	
	Sex	Female	34 (59.4)	
LOED AVF and AVG	Acc. (ucore)	Mean	65	
95.3% AVF	Age (years)	Range	27-92	
170(1)(0)		White	21 (32.8)	
4.7% AVG	Race	Black/African American	24 (37.5)	
		Asian	10 (15.6)	
ess configurations:		Hispanic	7 (10.9)	
71.0% brachishasilia		Other	2 (3.1)	
71.9% brachiobasilic CAD			32 (50.0)	
15.6% brachiocephalic	HTN		61 (95.3)	
		Total	51 (79.7)	
7.8% proximal radial	Diabetes	Type I	3 (4.7)	
4.7% avillobrachial		Type II	48 (75.0)	
		None	36 (56.3)	
	Smoking History	Previous Smoker	24 (37.5)	
		Current Smoker	4 (6.3)	

🛟 Inova⁻

		<a>Inova	Detenov			`
Overall resolution - 85.9% complete resolutior	Resolution by grade of ischemia Grade I: 75% (12/16)		Patency of PAI Mean patency of 45 months and median patency of 47 months 60.9% (39/64) of patients did not require additional interventions			
7.8% partial resolution3.1% no resolution	– Grade II: 80% (8/10) – Grade III: 90.5% (19/21)		Time (Months)	Primary Patency	Secondary Patency	Kaplan-Meier Estimator Primary (red) and Secondary (blue) Patency
 3.1% unknown resolution 	- Grade IV: 94.1% (16/17)		1	94%	97%	3 Value Land
Grade	Symptoms		12	81%	87%	
I Pale/b	blue discoloration or cold feeling of hand without pain					
II Pain o	during exercise and/or hemodialysis		24	71%	84%	8
III Pain v	while at rest					33
IV Ulcers	s/necrosis/gangrene		36	43%	84%	1 12 14 16 48 40 12





😵 Inova⁻

PAI is a reliable option for HAIDI intervention that has comparable if not superior safety/efficacy results when compared to DRIL

PAI has the added benefit of maintaining the native arterial pathway and potentially reducing the risk of ischemic recurrence in fistula thrombosis

· Use of synthetic graft does NOT increase PAI thrombosis or decrease patency compared to DRIL

· PAI should be considered as an alternative to DRIL for those patients with HAIDI