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			liac vein stenti			
Indications, tee	Discourse of a	interventional	Laurencia Villaiba, MDI 8	The role and	The role of illiac vein stent placen	sent in pelvic venous
placement in ¢		venous obstru	Barresh K. Sryadhi, PDG	venous throat	disorder management	
	Arrian Million Partie	Webarrowad E. Barlas		Observed & Avenue	Abithe Murall HD, Earware Custa, MD, and Eash ID.	Desiri MD, Chinam A
Windsor Ting, MO ⁺ me		Sust Doganci, MO." 5	ABSTRACT	mournan Jatan, M3		
	ABITRACT		prophency and the poster		ABSTRACT	
ADSTRACT	Therthing has become the		childbearing age has partie	ABSTRACT	Palsis service observe (Pelsic) has historically been challery	ing to diagnose and treat. This paper describes a compre-
Releptored Submord (costly-of the reporting	front when shere	sterling, start characterial	Calibration directed inter-	harves approach to the stagnost of Party and research	a row of nacional store processor in tradinant, maked se-
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rule, benefits, and proces	symptoms and signs of	a power power	29 patients (201), nontheigh	an uncowered hereit a	refue and an WA. Patients activities in a thromas and	aftery states artist typically have a more favorable to barnets
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	and antithrambotic therapy	is a general term that and	including nondrosmilatic illa	cods" indenent (NL)	quoter of typeractories are performed for chronic	nois and management has led to skepticum of
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ty 1990s to the US Feed	publications have demote	will downlop it within 2 years	hearing and This is because	terms, PT3 can be a very	significant pain generation. Surgical interventions can be	Nots of this alwapticism include delays in diagnosis and
(A) apprecial of similarity	and efficary of such size	The symptoms of PTS call	parture period are hyperio	adequets articlogulation	append to their perior ratios, these in the second affective with	The American Vision Belowing This Index
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147 studies included



50% stenosis: postthrombotic disease

Multifocal disease

Bilateral disease

Long segment stenosis







Indications: individualized approach

- ✓ **Suspected** chronic venous obstruction
- ✓ Severe persistent signs or symptoms (pain, edema, ulcers)
- ✓ VCSS, Villalta, CIVIQ-14, CIVIQ-20, VEINES QoL
- ✓ Failed adequate conservative treatment (elevation, compression, exercise, antithrombotic therapy) with acceptable compliance
- \checkmark Appropriate **ambulatory status**
- ✓ Reasonable life expectancy
- ✓ Abnormal iliofemoral axis on imaging

Indications: individualized approach

expect improvement not complete resolution of symptoms







- Supine
- CFV / FV (unless chronically occluded)
- 9-10F
- Heparin 60-100 U/kg, ACT>250 sec





	10-15%	
higher sensitivity	more accurate	
o detect significant lesions	estimate of severity	















Dedicated venous stents

Venovo (BD)

- FDA 2019 Open cell, 3mm flared end .

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- Maximize apposition / prevent migration VERNACULAR study (n=170)
- Primary patency at 12 months - 89%

Zilver Vena (Cook Medical)

FDA 2020 Open cell

Abre (Medtronic)

Flexibility / conformability ABRE study (n=200)

• FDA 2020

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Open cell

- Flexibility / minimal foreshortening
- VIVO study (n=35)
- . Primary patency at 12 months - 88%

Primary patency at 12 months - 88%

DUO Hybrid / Extend (Philips)

- FDA 2023 Open cell
- Hybrid design (strength ---> flexibility) VIVID study (n=162)
- Primary patency at 12 months 90%







Predilation to the intended stent diameter

allows adequate stent expansion after deployment

per IFU of most stents

serial dilatation may be required

can verify stent sizing

Stent sizing

From good **inflow** to good **outflow**

Maintain deep femoral vein inflow

Inflow **luminal area** on IVUS

Distal to proximal, overlap 2-3cm

Minimal extension to IVC

Postdilation

the **maximal resistive force** of nitinol is not achieved until dilatation to its **nominal diameter**

















Long-	Long-term patency (pooled data)						
NIVL	PTS (non-occlusive)	PTS (occlusive)					
>90%	~80%	<70%					

Complications

- Back pain
- Stent migration (<60mm length, <14mm diameter)

ulaivelidate L, Kennedy R, Lakhanpal S, Pappar PJ. Nitinol stents placed in iliac veins are not asso stenting: best practices for patient safety and successful outcomes. Endovascular Today - 2021. Kucher T, Thompson M, Bentley D. Long-term clinical outcomes and technical factors with the V

- Acute thrombosis (residual stenosis, kinking, angulation, PTS, impaired inflow)
- In-stent restenosis / stent compression ~80%

Limitations

- Most studies are retrospective
- High heterogeneity in design and outcomes evaluation
- High patient diversity (race, ethnicity, gender)
- Reflux not evaluated
- Compression therapy not reported
- Practice setting, volume... and more

Thank you!