

Use of the transbrachial approach with regular radial sheath as an alternative method in the management of aortoiliac occlusive arterial diseases

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Disclosure

Speaker name:

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I have the following potential conflicts of interest to report:

- Consulting
- Employment in industry
- Stockholder of a healthcare company
- Owner of a healthcare company
- Other(s)

- I do not have any potential conflict of interest

Background

Aortoiliac bifurcation lesions present various difficulties and the therapeutic method remains controversial.

In addition, while some reports have examined EVT outcomes in aortoiliac bifurcation lesions, few are analyzing the influence of lesion morphology and stent configuration.

Objective

Evaluation the transbrachial approach using radial sheath as an alternative method in the management of aortoiliac arterial diseases.

Patients

Seven patients admitted to Sharq Almandina and Elamria hospitals, during the period :

July 1st 2017 – April 30th 2018 with chronic bilateral lower limb ischemia (aortoiliac occlusive disease).

Methods

- **Clinical evaluation, Doppler and CT.angiogram**
Trans-brachial approach had been chosen
using 6Fr. Regular radial in stead of long
brachial sheath .
- **Clinical and duplex follow up after1 day, 1**
week and 3 months



RESULTS

Patient's Demography:

Age: 62.2+0.04 years

M/F: 5/2

**All patients presented with critical limb
ischaemia**

Clinical presentation

Clinical presentation	patients
Limited claudication	2 patients
Rest pain	2 patients
UNHRALED STUMP	2 patients
Gangrene	One patient

TASCII Common Iliac Chronic Obstructions (CICOs)

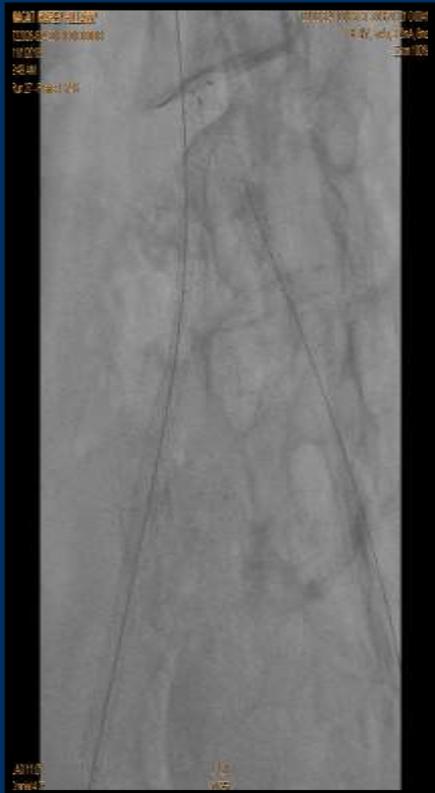
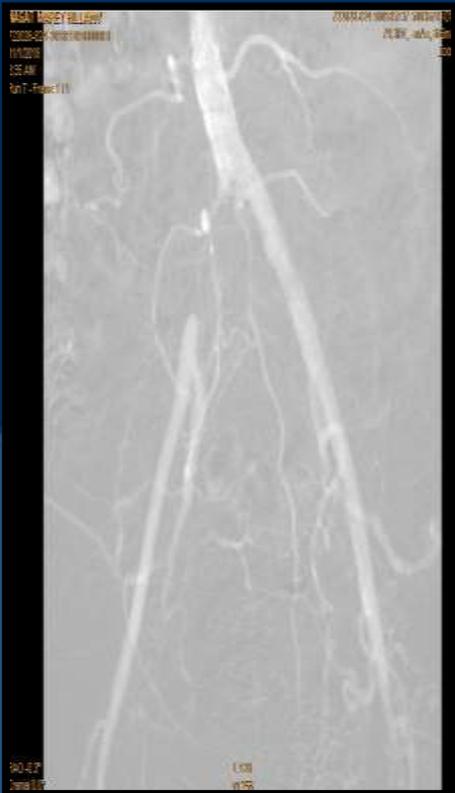
Clinical presentation	patients
Class A lesion	0
Class B lesion	One patient
Class C lesion	One patient
Class D lesion	5 patient

TASCII Common Iliac Chronic Obstructions (CICOs)

Lesion	patients
Bilateral Common Iliac stenosis	2 patients
Common Iliac occlusion	3patients
In stent Common Iliac stenosis	2 patients



2 balloon mounted 7F. Stents were applied in both common iliac arteries (kissing stents) in 4 patients











Complications

Using the micro puncture needle and the 6th F. regular radial sheath minimize the trauma at the entry site without post operative hematoma nor brachial artery spasm were elicited .

Follow up

Duplex study

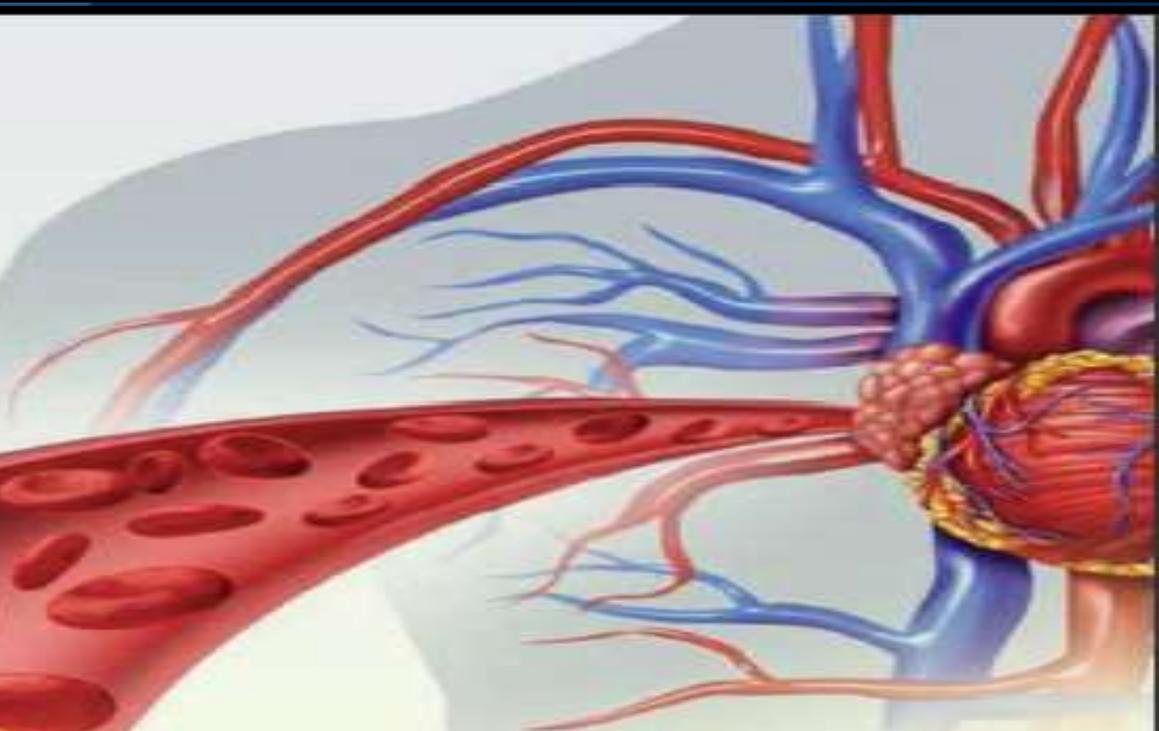
Patent stents with good forward biphasic flow in all patients after 3 months and one year period.

CONCLUSION

- Radial sheath is a safe, unique, cheap method for transbrachial approach, more friendly for arch manipulation and doesn't affect the pushibility during the procedure with less complications and dose not prolong the procedure.
- Using the micro puncture needle and the 6th F. regular radial sheath minimize the trauma at the entry site without post operative hematoma nor brachial artery spasm.



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