CONTROVERSES ET ACTUALITÉS EN CHIRURGIE VASCULAIRE CONTROVERSIES & UPDATES IN VASCULAR SURGERY JANUARY 19-21 2017 MARRIOTT RIVE GAUCHE & CONFERENCE CENTER PARIS, FRANCE

How do you get access from above: brachial, axillary, subclavian, conduit or multiple punctures? Right side or left side?

> Ross Milner, MD Professor of Surgery Co-Director, Center for Aortic Diseases



Disclosure

Speaker name: Ross Milner

I have the following potential conflicts of interest to report:

- Consulting: Cook, Endospan, Medtronic, WL Gore
- Employment in industry
- Shareholder in a healthcare company
- Owner of a healthcare company
- Other(s)
- I do not have any potential conflict of interest



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I did not vote for Trump

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2017













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Dr. Ross Milner: Not voting for me was a big mistake! And, I hope your talk really sucks in Paris!



Upper extremity access

- Important adjunct for complex endovascular aortic procedures:
 - ChEVAR
 - FEVAR
 - TEVAR?

Penetrating Aortic Ulcer JANUARY 19-21 2017 MARRIOTT RIVE GAUCHE & COMFERENCE CENTER

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Completion Angiogram













- Which vessel?
- Direct puncture or conduit?
- Which side?





- Which vessel?
- Direct puncture or conduit?
- Which side?

Brachial, axillary, or subclavian?



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Brachial, axillary, or subclavian?

TROVERSIES & UPD



imaging a challenge

- Patient prep is easier
- Anesthesia doctor can use both arms
- Subclavian artery angle can be challenging and brachial artery is small

CONTROVERSIES & UPDATES IN VASCULAR SURGERY **Axillary Artery Conduit**

CONTROVERSES ET ACTUALITÉS EN CHIRURGIE VASCULAIRE

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Brachial, axillary, or subclavian?

IN VASCL

- Left or right arm out makes full lateral
 - imaging a challenge
- Patient prep is easier
- Anesthesia doctor can use both arms
- Subclavian artery angle can be challenging and brachial artery is small
- Axillary!





• Which vessel?

• Direct puncture or conduit?

• Which side?



 1 or 2 sheaths – direct arterial puncture through a previously placed purse-string with a pledget



- 1 or 2 sheaths direct arterial puncture through a previously placed purse-string with a pledget
- > 2 sheaths: I prefer an axillary conduit

Conduit choice?





Conduit choice?











- Which vessel?
- Direct puncture or conduit?
- Which side?

Which side?



• 4 sheaths can be placed on one side

4 Sheaths - labeled

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Which side?



- Anecdotally, right side is less safe due to stroke risk
- But, it is easier to work from the right side due to C-arm

Complications



• One subclavian artery rupture – *left side*



Complications



• One subclavian artery rupture – left side

One stroke – left side (fatal)

Which side?



- Right side is safe in terms of neurologic outcomes
- May be more challenging to cannulate visceral vessels due arch tortuosity (type 3 arch) and renal artery location

Which side?



- Right side is safe in terms of neurologic outcomes
- May be more challenging to cannulate visceral vessels due arch tortuosity (type 3 arch) and renal artery location
- Right side!

Conclusions



• Which vessel? - axillary

• Direct puncture or conduit?

• Which side?





• Which vessel? - axillary

Direct puncture or conduit? – either/both

• Which side?





• Which vessel? - axillary

Direct puncture or conduit? – either/both

• Which side? – *right (debatable)*



Thank you!



AT THE FOREFRONT OF MEDICINE"