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Tackling iatrogenic post-percutaneous access femoral artery pseudoaneurysm – a case series of multiple closure techniques

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Purpose

Femoral artery pseudoaneurysm is an important post-procedural complication following percutaneous access/intervention. Whilst it is uncommon, it causes significant anxiety among clinicians including interventionists as it exposes the clinician to litigation concerns. The management of post-percutaneous access pseudoaneurysm can be divided into several broad categories; namely conservative, endovascular or surgical managements. With rapid advancements of endovascular techniques, interventional radiologists have been at the forefront of managing this issue. We aim to highlight; with the aid of a case series, the various options at the disposal of an...

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weapons at the disposal of an...

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Methods and materials

A series of four clinical cases is used to illustrate five; amongst the varying, techniques of post-percutaneous access pseudoaneurysm closure. The techniques described are as follow: Ultrasound guided compression Vascular closure device Endovascular embolization Endovascular stenting Percutaneous injection

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Results

1) Ultrasound guided compression: 60 year-old lady with underlying diabetes and hypertension presented with non-healing infected 5th toe ulcer. She was referred to interventional radiology for lower limb angioplasty to aid the healing of her wound. An antegrade puncture approach was made to obtain access to the right common femoral artery (CFA). Following uneventful plain old balloon angioplasty (POBA), arterial sheath was removed followed by 15 minutes manual compression. No immediate haematoma observed post-compression. However a small pulsatile haematoma was detected during routine next day...

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Conclusion

Management of iatrogenic pseudoaneurysm is multifaceted, with ever evolving techniques. Incidences remain thankfully low; but will perhaps be increasing with advancement of interventional radiology.

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Personal information and conflict of interest

A. A. Halim Lim: Nothing to disclose R. Zakaria: Nothing to disclose N. Y. Yaacob: Nothing to disclose

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References

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