Endovascular Treatment of Renal Artery Aneurysm with Vascular Plug

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Disclosure

Speaker name: ..............................................................

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
Visceral Artery Aneurysms

- Splenic 60%
- Hepatic 20%
- Renal 15-22%
- SMA 5-8%
- Jejunal, iliac, colic 2%
- GDA 1.5%
- IMA 1%
Renal Artery Aneurysms

The indications for treating renal aneurysms include:

• symptomatic aneurysms
• large (> 2cm) or enlarging
• aneurysm in patients anticipating pregnancy
• ruptured aneurysms
Endovascular Techniques

1. Sac-packing technique
2. Sandwich technique
3. Covered stent
4. Stent-assisted coil
Case report

- 67-years-old-male
- Nonspecific abdominal pain
- History of hypertension
- CT angiography demonstrated a distal right renal artery aneurysm 2.1 cm x 1.2 cm
Pre-Procedure CTA
Vascular Plug Placement
Control Angio Post-Plug Placement
Control Angio Post-Stenting
Ultrasound Control after 8 weeks
Conclusions

- Endovascular treatment has become the first-line treatment of renal artery aneurysm.
- In selected cases, the vascular plug could be a good choice of an embolic, based on the accuracy with which it can be placed.
- Endovascular treatment of renal artery aneurysms should be performed by expert operators who can resolve any complications that might occur.
THANK YOU FOR YOUR ATTENTION!

Vladimir Cvetic
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