ANCA-Associated Renal Microaneurysms Managed with Renal Embolization

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Disclosure

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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
Introduction

- ANCA Vasculitis
  - Anti-Neutrophilic Cytoplasmic Autoantibodies
- Pauci-Immune Crescentic Glomerulonephritis
  - Form of Rapidly Progressive Glomerulonephritis
Case Discussion

- 39yo F presenting with acute abdominal pain, nausea, vomiting
- PMHx: Undifferentiated autoimmune disease, iron deficiency anemia, HTN
- On presentation, noted to have hematuria and oliguria
- Admitting Dx: AKI and acute anemia likely 2/2 granulomatosis with polyangiitis
- Received emergent plasma exchange, hemodialysis, cyclophosphamide, steroids
- Renal U/S showed increased cortical echogenicity consistent with medical renal disease
- IR consulted for CT-guided renal biopsy
Case Discussion

- HOD 6 – pt developed acute abdominal pain, nausea, vomiting
- CT a/p revealed left perinephric hematoma with active extravasation
Case Discussion

- IR consulted for renal angiography and embolization
  - Multiple sites of active extravasation, 2 lower pole arteries each embolized with a single coil, small amounts of persistent hemorrhage embolized with Gelfoam®, upper pole flow was preserved
Case Discussion

- HOD 7 – Bleeding diathesis persisted. IR to repeat angiogram and embolize entire kidney
  - Angiography confirmed multiple microaneurysms, embolization achieved with 99% ethanol + embospheres and coils
Conclusions

• Pathology report on HOD 10 revealed granulomatosis with polyangiiitis. Pt discharged on HOD 18

• Rapid decompensation of renal ANCA vasculitis after biopsy
  • Gelfoam® dissolves over 5-7 days

• Elevated hemorrhage risk after intervention in vasculitis

• Elevated risk of collateral formation and incomplete embolization with microcoils
References


2. Harrison's Principles of Internal Medicine.—18th ed. / editors, Dan L. Longo... [et al.]. Vol. 1, Chapter 283; cm.