Embolisation therapy for visceral aneurysms, bleeding and beyond

Uterine Embolisation Techniques and Outcome

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Disclosure

Speaker name:
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I do not have any potential conflict of interest
Interventional Radiology

- Emergent control of life threatening hemorrhage
  - Postpartum Hemorrhage (PPH)
  - Cancer bleeding
  - Postoperative bleeding
  - Trauma
  - AVM

- Transcatheter arterial embolization in hemorrhage
Arterial Embolization for Control of Hemorrhage

Keypoints

- Intractable bleeding
- Obstetric emergency procedures
- Difficult anatomy, extensive vascular network, collateralization
- Hard to detect
Arterial Embolization for control of hemorrhage

Anatomic background

From Katz et al; Radiographics 2012/32
Arterial Embolization for control of hemorrhage

General rules:

- Bilateral approach
- Selective and superselective approach
- Appropriate embolic agents
Pelvic Hemorrhage Strategies

- Surgery: Proximal ligation (hypogastric artery), suture repair, intrauterine tamponade, uterine compression: <50% success rate

- Endovascular procedures: Nusbaum 1969, Brown Heaston 1979:
Endovascular Technique

- Subselective embolization
- Anterior division of both iliac arteries
- Avoid posterior division embo, non target embo, neurological complications
- Coils
- Particles
- Gelfoam
- Glue
56 a old patient
postop. hemorrhage
dramatic HB decrease
rechts
praë
rechts
praë

Emboliisation mit Coils

rechts
Role of Interventionalist in Gyn Bleedings

- Successful management of acute bleeding
- Overall success rate >80%

- Transient ovarian failure might appear
- Return to normal menses and fertility mostly observed

Shim et al 2006; Josephs SC, 2008; Hong TM 2004, Yamashita Y 1994, ect, ect...
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