At What Size Do Hypogastric Artery Aneurysms Rupture: At What Size Is Repair Indicated: Textbook Indications For Repair Should Change

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No disclosures

Hypogastric artery aneurysm
• Uncommon and often found together with abdominal aortic aneurysms
• No data on the natural history or the growth rate of these aneurysms exist
• They are almost always asymptomatic and found accidentally
• Threshold for elective repair is 3 cm => almost always when found elective repair in indicated

Hypogastric artery aneurysm

The management of iliac aneurysms has not been as well defined due to the relative rarity of this pathology. Nonetheless, our current understanding of the natural history portends growth and eventual rupture. Recommendations regarding the appropriate criteria of CIA aneurysms, and repair is recommended after reaching a diameter of 3 to 3.5 cm.
CONCLUSIONS/RECOMMENDATIONS

All patients with isolated iliac artery aneurysms who are in good health should undergo elective repair, as this can be performed with extremely low mortality and death. Aneurysmectomy

At what size do they rupture?
Hypogastric artery aneurysms repaired due to rupture

Also cases with concomitant aortoiliac aneurysms

Diameter measured from CT-images that were taken at the time of rupture

**Patients**

- **63 patients**
  - 55 (87.5%) men
  - Average age: 77 years (48-93 years)
  - Men: 76 years
  - Women: 79 years

**Diameter**

Average diameter of ruptured IIAA 68 mm (25-116 mm)

1 under 30 mm
4 under 40 mm

**RIIAA vs RAAA**

![Graph showing the diameter distribution of ruptured IIAA vs RAAA.]

- 6% under 4 cm
- 8% under 5.5 cm

**Long-term survival**

- 1-year mortality: 25.5%
- 5-year mortality: 49.8%

**Treatment of ruptured hypogastric artery aneurysms**

- Open surgery 73% (n=46)
  - (Death rates occurring after opening the aneurysm sac)
- Endovascular 27% (n=17)
  - coil or covered stent/stent graft

**Overall 30-day Mortality**

- 12% for Open Surgery
- 12% for Endovascular
Should the indications for the elective repair be changed?

• Pro the motion are the facts:
  • Median diameter at the time of rupture 7 cm
  • Rupture very rare when the diameter < 4cm (more rare that AAA-rupture < 5.5 cm)
  • Mortality at the rupture situation less than in the case of RAAA
  • Mortality to the emergency treatment relatively low
  • Elective treatment is not complication-free (persistent buttock claudication to 25%, erectile dysfunction 12%, mortality 1-7%)

SUGGESTION: Indication for the elective repair of the hypogastric artery aneurysm could be changed to 4 cm
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