What Is New In The Treatment Of External Iliac Artery Endofibrosis In Committed Cyclists: Is There A Role For Endovascular Treatment?

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Disclosures

Medtronic, Inc, Society for Vascular Surgery

External Iliac Artery Endofibrosis

- High performance athletes
 - Cyclists most typical, but runners, skaters, skiers...
 L leg > R, may be bilateral
- Characteristic lesion
 - Distinct from atherosclerosis, FMD, cystic adventitial disease
 Circumferential or eccentric
- Most common location proximal external iliac artery
 Other arteries involved: femoral>common iliac

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- Hyperflexion at the hip
- Repetitive stretch
- Arterial fixation
- Inguinal ligament, hypogastric, psoas branchesPsoas muscle impingement
- Combination of hypertrophy and fixation
 Arterial redundancy
 Kinking with or without endofibrosis
- Dynamic: vasospasm

Bynamic. Vasos

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Treatment

Conservative measures:

Often unacceptable to patients, small risk of progression/occlusion

Surgical approaches: Controversy!

- Interposition graft
- Patch angioplasty +/- endofibrosectomy
- Vessel shortening
- Iliac release, inguinal ligament release
 Endovascular: no role as primary therapy
- · Endovascular. No role as primary there

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External Iliac Arteriopathy: Key Points

- Overall, most return to sport, high satisfaction
- Durability? Relatively high rate of reintervention long term
- BAD complications possible
- Genuine controversy: Diagnostics and algorithm
- Subtypes (and combinations)Technique
- Endo: Still "No!"

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