Complex subclavian artery aneurysm involving vertebral artery origin

GUILHERME VIEIRA MEIRELLES
CLEDICYON ELOY DA COSTA
GUSTAVO CALADO DE AGUIAR RIBEIRO
MAURÍCIO ROCCO DE OLIVEIRA

CAMPINAS – SP – BRAZIL

Assistent of Trauma Discipline at State University of Campinas

Director of Angiorradiology and Endovascular Surgery Department of Brazilian Society of Angiology and Vascular Surgery -SP
Disclosure

Speaker name: GUILHERME V MEIRELLES

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
SUBCLAVIAN ARTERY ANEURYSMS ARE AMONG THE RAREST OF ALL PERIPHERAL ANEURYSMS.

Dent and colleagues found only two subclavian artery aneurysms in 1488 patients with atherosclerotic aneurysms.

Review of the English literature, found only 70 documented subclavian artery aneurysms in 64 patients reported between 1926 and 1995.

- right subclavian artery aneurysms - more common
- twice as often in males as in females
- average age was 49
The common causes of subclavian aneurysms. 89 cases in Japan

- Arteriosclerosis 18.0%
- Trauma 14.6%
- Inflammation 13.5%
- Thoracic outlet syndrome 11.0%

28 years old female with Marfan`s syndrome

- Open correction of ascending aorta aneurysm
  - Benton technics
- Developed a left subclavian aneurysm involving vertebral artery origin
- 35 mm diameter
TREAT THE ANEURYSM

- Preserve vertebral artery
- Maintaining left subclavian artery access to aortic arch
TREATMENT OF THE ANEURYSM OPTIONS

- Open surgery
- New thoracotomy / cervicotomy with
  - aortic subclavian by pass
  - Carotid subclavian by pass
  - Axillary artery by pass
- Implantation vertebral artery
TREATMENT OF THE ANEURYSM OPTIONS

- Endovascular aproach
- Subclavian endoprotese
  - Aortic subclavian endoprotese
  - Implantation vertebral artery
  - Aortic vertebral endoprotese
  - Axillary artery by pass
- Embolization of the branches
CASE REPORT
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