Endovascular Treatment of Transvisceral Aortic Stent Fracture with Thoracic Aneurysm Endoleak

**Purpose**
To show the endovascular treatment performed in a case of transvisceral aortic stent fracture, previously used as a reinforcement of distal endoprosthesis attachment in a thoracic aortic aneurysm endovascular repair (TEVAR)

**Method and Sources**
71 year-old male patient, with known history of ischemic cardiomyopathy and hypertension, who underwent TEVAR (Valiant® thoracic stent graft) by other center (May, 2012) due to a ruptured thoracic aortic aneurysm, with distal attachment reinforcement with a transvisceral aortic stent (E-XL® stent) placement.

During the follow up, the computed tomography (CT) scan shows the fracture of the transvisceral stent, with endoprosthesis cranial migration and new type IB endoleak of the thoracic aneurysm.

Endovascular treatment with a new Valiant® thoracic endograft placement, reaching the celiac trunk, was realized, excluding proximal segment of the broken transvisceral stent, plus a new stent E-XL® between Valiant endoprosthesis and previous E-XL®, and sac embolisation with hydrocoils (AZUR® detachable system)

**Results**
The intraoperative angiogram and the CT scan after the procedure, showed thoracic aortic aneurysm and proximal segment of the broken transvisceral stent correctly excluded, with no endoleaks, and patency of the celiac trunk.

**Conclusions**
Despite the progress of the endovascular techniques, there are many complications and they are a real hard surgical challenge very often. An adequate endovascular procedures follow up is completely necessary to detect them.

Funding: none. Conflict of interest: all authors have no conflict of interest to disclose.
Corresponding author: dvdcarrasco@hotmail.com