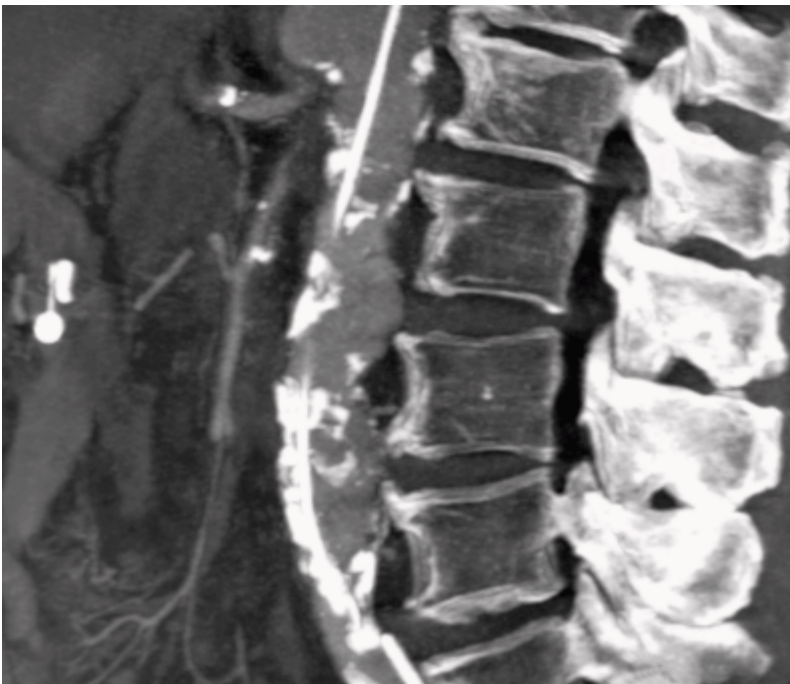


Abdominal vessels

syngo DynaCT – Cross-sectional imaging. Setting the trend in intervention.

Courtesy of Prof. Frank K. Wacker,
Charité, Berlin, Germany



syngo DynaCT sagittal slice

syngo DynaCT provides the ability to acquire, reconstruct, and visualize cross-sectional images in the interventional lab.

A medical industry first for Siemens, it started out as a breakthrough innovation for neuro applications. Continual development in collaboration with institutions worldwide has now made *syngo* DynaCT available for applications for the entire body.

Initial applications in neuroradiology imaging included the visualization of local bleeds, the ventricular system, and tumors. This has expanded to abdominal applications, which include chemoembolizations, RF ablations, stent placement, vertebroplasties, and punctures.

syngo DynaCT improves patient management during interventional procedures by enhancing decision-making with additional cross-sectional information and virtually avoiding patient transfer to CT.

Find further information and additional case studies at our *syngo* DynaCT website:
www.siemens.com/DynaCT

Patient history

86-year-old patient with abdominal pain and elevated lactate levels.

Diagnosis

The CT findings included SMA occlusion, lack of bowel wall enhancement, and distension of the right colon with slightly thickened wall. Based on CTA images, it was unclear if the celiac trunk was occluded or stenotic. Patient underwent surgery and ischemic right colon was resected. Emergency laparotomy revealed viable small bowel and left colon. Patient was sent to angiography for diagnostic workup and possible recanalization and stenting of the celiac trunk or the mesenteric artery.

syngo DynaCT Findings

Contrast-enhanced *syngo* DynaCT demonstrates occlusion of the SMA with calcified plaque at the origin and thrombus in the first 4 cm of the vessel. High-grade stenosis of the celiac trunk that comes off an aneurysmatic portion of the aorta. Collateral filling of the SMA coming off the celiac trunk. Pancreatitis of the pancreatic head clearly visible.

Comments

syngo DynaCT provided comprehensive diagnosis of occluded SMA and high-grade stenosis of the celiac trunk prior to angioplasty and stenting. Instead of performing multiple conventional DSA runs, *syngo* DynaCT provided excellent 3D vessel conspicuity and visualization of the occluding thrombi/plaque in the visceral branches.

[1] *syngo* DynaCT of abdominal aorta



[2] *syngo* DynaCT collateral filling of superior mesenteric artery



[3] *syngo* DynaCT SMA occlusion

