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EKOS Ultrasound Accelerated Thrombolysis to Treat Paget-Schrötter Syndrome

Patient History

25-year-old right-handed Hispanic male power-lifter presented with:

- New onset of right arm swelling and pain when lifting right arm above head
- Chronic appearing thrombosis of right subclavian vein to the level of the superior vena cava (SVC)
- The subclavian vein is irregular in caliber consistent with longstanding repetitive injury to the vessel
- Right arm venogram demonstrated an essential chronic occlusion of right subclavian vein

Treatment

EKOS (18 cm treatment zone) device was placed:

- Device passed through the right subclavian venous occlusion into SVC
- Overnight (approx. 12 hr) EKOS ultrasound-accelerated thrombolysis with TNK (Genentech) at 0.25 mg/hr

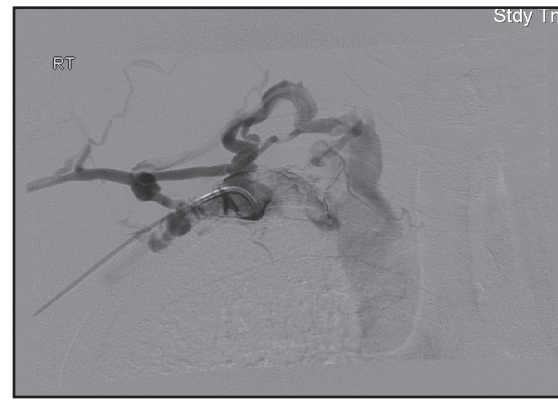
Results

Patient restudied the next morning:

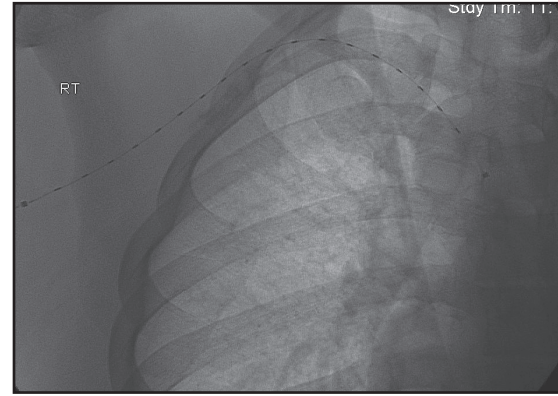
- Follow-up venogram demonstrated clearing of all clot within the right subclavian vein uncovering a chronic irregular stenosis of the vein consistent with a diagnosis of Paget-Schrötter syndrome
- Balloon angioplasty was performed with a 10 mm x 4 cm Dorado Balloon (Bard Peripheral) which resolved the stenosis
- Final venogram demonstrated good flow through the right subclavian vein to the SVC

“Excellent result on chronic clot within the venous system.”

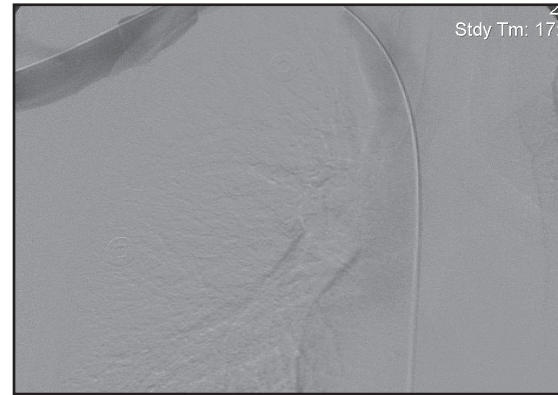
– Glenn W. Stambo, MD



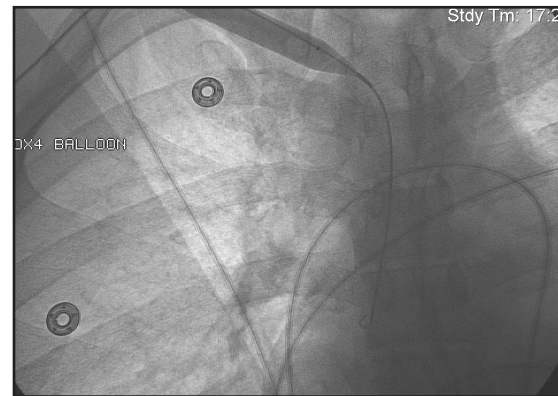
Right arm venogram demonstrating chronic occlusion of right subclavian vein consistent with Paget-Schrötter's syndrome



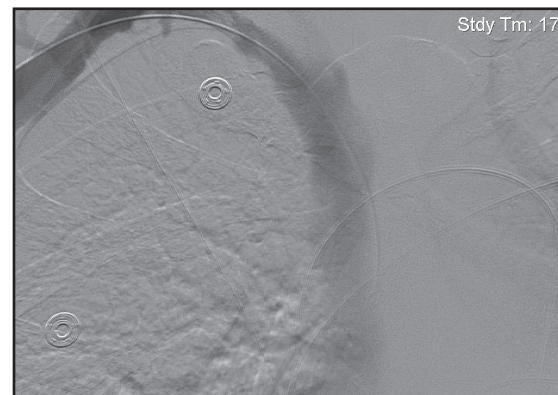
18 cm treatment zone EKOS device crossing occluded right subclavian vein



Status post Day #1 – EKOS ultrasound accelerated thrombolysis demonstrating complete clearing of chronic thrombosis confirming a high grade irregular stenosis



Balloon angioplasty with 10 x 4cm Dorado balloon



Demonstrating widely patent right subclavian vein with no residual stenosis or thrombus



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Intended Use Intended Use The EKOS EkoSonic™ Endovascular Device is intended for controlled and selective infusion of physician specified fluids, including thrombolytics, into the peripheral vasculature. **Contraindications** • Not designed for peripheral vasculature dilation purposes. • This system is contraindicated when, in the medical judgment of the physician, such procedure may compromise the patient's condition. © 2009 EKOS Corporation • CE0197 • 22219-EN-001