Acoustic Pulse Thrombolysis™
Is a minimally invasive system for dissolving thrombus.
The ultrasonic core generates an acoustic field which greatly accelerates lytic dispersion by driving the drug deeper into the clot and unwinding the fibrin to expose plasminogen receptor sites.¹

¹ Francis CW et al. Ultrasound accelerates transport of recombinant tissue plasminogen activator into clots. Ultrasound in Medicine and Biology, 1995; 21(5): 419-24
Accelerate Thrombus Dissolution with Targeted Ultrasound Waves

The EkoSonic™ Endovascular System includes an ultrasonic core within an infusion catheter, and control unit.

The EKOS effect changes the standard of care for pulmonary embolism and dissolves the thrombus more completely, even in difficult-to-reach areas for deep vein thrombosis and peripheral arterial occlusion.

**Pulmonary Embolism**

EKOS has been shown to yield safe and effective results for acute, massive (high risk) and submassive (intermediate risk) PE. It improves right ventricular function and pulmonary artery pressure while minimizing the risk of bleeding.

- Reduces RV/LV ratio by more than 23% on average in as little as 2 hours
- Reduces PA pressures by 28% (at 48 hours)
- 76% less thrombolytic drug dosage than standard treatment
- Minimized risk of bleeding

**Infusion of Thrombolitics**

The EKOS catheter can be used for the infusion of physician selected therapeutics, including thrombolytics for the treatment of diseases, such as deep vein thrombosis and arterial occlusion.

- Removes thrombus more completely compared to CDT
- Reduces post-thrombotic syndrome

**Acoustic Pulse Thrombolysis Treatment has clinically shown:**

- More effective drug delivery
- More efficient thrombus clearance
- Reduced procedure time

**Acoustic Pulse Thrombolysis**

## The EKOS System’s targeted ultrasound waves accelerate thrombus dissolution by unwinding the fibrin matrix.¹

### The Thrombosis Barrier
- Tightly wound fibrin prevents lytic from reaching receptor sites.

### With Acoustic Pulse
- Ultrasonic energy thins fibrin and exposes receptor sites.

### With Acoustic Pulse + Lytic
- More drug reaches entire thrombus, accelerating absorption.

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### 5.4 F infusion catheter for all EKOS products

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<th>Working Length</th>
<th>Treatment Zone</th>
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⁵¹ EKOS Acoustic Pulse Thrombolysis Treatment

**CAUTION:** Federal law (USA) restricts this device to sale by or on the order of a physician. Rx only. Prior to use, please see the complete "Directions for Use" for more information on Indications, Contraindications, Warnings, Precautions, Adverse Events, and Operator’s Instructions. **INDICATIONS FOR USE:** The EkoSonic Endovascular System is indicated for: Ultrasound facilitated, controlled and selective infusion of physician-specified fluids, including thrombolytics, into the vasculature for the treatment of pulmonary embolism; Infusion of solutions into the pulmonary arteries; Controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature. All therapeutic agents utilized with the EkoSonic Endovascular System should be fully prepared and used according to the instruction for use of the specific therapeutic agent. **CONTRAINDICATIONS:** Not designed for peripheral vasculature dilation purposes; This system is contraindicated when, in the medical judgment of the physician, such a procedure may compromise the patient's condition. **POTENTIAL COMPLICATIONS:** Vessel perforation or rupture; Distal embolization of blood clot; Vessel spasm; Hemorrhage; Hematoma; Pain and tenderness; Septic infection; Thrombophlebitis; Tricusp and pulmonic valve damage; Pulmonary infarct due to tip migration and spontaneous wedging, air embolism, and/or thromboembolism; Right bundle branch block and complete heart block; Intracardiac disruption; Air embolism; Vascular thrombosis; Drug reactions; Allergic reaction to contrast medium; Air embolism; Thromboembolic episodes; Amputation; Pneumothorax; Perforation of the pulmonary artery; Cardiac Arrhythmias – most frequently occurring during placement, removal or following displacement into the right ventricle. PI-726201-AA

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**Peripheral Interventions**

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