**EKOS® Bibliography**  
(All Peer Reviewed unless otherwise noted)

### Clinical Applications

**Pulmonary Embolism**


FDA Cleared Indications: The EkoSonic® Endovascular System is indicated for the ultrasound facilitated, controlled and selective infusion of physician-specified fluids, including thrombolytics, into the vasculature for the treatment of pulmonary embolism, the controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature, and the infusion of solutions into the pulmonary arteries. Instructions for Use, including warnings, precautions, potential complications, and contraindications can be found at www.ekoscorp.com.


http://www.jvsvenous.org/article/S2213-333X(15)00053-0/abstract


http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3905250/


**Venous & Arterial Occlusions**


http://www.vasculardiseasemanagement.com/content/endovascular-intervention-lower-extremity-deep-venous-thrombosis
FDA Cleared Indications: The EkoSonic® Endovascular System is indicated for the ultrasound facilitated, controlled and selective infusion of physician-specified fluids, including thrombolytics, into the vasculature for the treatment of pulmonary embolism, the controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature, and the infusion of solutions into the pulmonary arteries. Instructions for Use, including warnings, precautions, potential complications, and contraindications can be found at www.ekoscorp.com.


FDA Cleared Indications: The EkoSonic® Endovascular System is indicated for the ultrasound facilitated, controlled and selective infusion of physician-specified fluids, including thrombolytics, into the vasculature for the treatment of pulmonary embolism, the controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature, and the infusion of solutions into the pulmonary arteries. Instructions for Use, including warnings, precautions, potential complications, and contraindications can be found at www.ekoscorp.com.


http://circ.ahajournals.org/content/126/6/768.long


FDA Cleared Indications: The EkoSonic® Endovascular System is indicated for the ultrasound facilitated, controlled and selective infusion of physician-specified fluids, including thrombolytics, into the vasculature for the treatment of pulmonary embolism, the controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature, and the infusion of solutions into the pulmonary arteries. Instructions for Use, including warnings, precautions, potential complications, and contraindications can be found at www.ekoscorp.com.

Caution: Federal (USA) law restricts these devices to sale by or on the order of a physician. EKOS® and EkoSonic® are registered trademarks and EndoWave™ is a trademark of EKOS Corporation, a BTG International group company. BTG and the BTG roundel logo are registered trademarks of BTG International Ltd. © 2015 EKOS Corporation. US-EKO-2015-0124(4) MAR 2016
FDA Cleared Indications: The EkoSonic® Endovascular System is indicated for the ultrasound facilitated, controlled and selective infusion of physician-specified fluids, including thrombolytics, into the vasculature for the treatment of pulmonary embolism, the controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature, and the infusion of solutions into the pulmonary arteries. Instructions for Use, including warnings, precautions, potential complications, and contraindications can be found at www.ekoscorp.com. Caution: Federal (USA) law restricts these devices to sale by or on the order of a physician. EKOS® and EkoSonic® are registered trademarks and EndoWave™ is a trademark of EKOS Corporation, a BTG International group company. BTG and the BTG roundel logo are registered trademarks of BTG International Ltd. © 2015 EKOS Corporation. US-EKO-2015-0124(4) MAR 2016


**Graft thrombosis**

FDA Cleared Indications: The EkoSonic® Endovascular System is indicated for the ultrasound facilitated, controlled and selective infusion of physician-specified fluids, including thrombolytics, into the vasculature for the treatment of pulmonary embolism, the controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature, and the infusion of solutions into the pulmonary arteries. Instructions for Use, including warnings, precautions, potential complications, and contraindications can be found at [www.ekoscorp.com](http://www.ekoscorp.com).

Caution: Federal (USA) law restricts these devices to sale by or on the order of a physician. EKOS® and EkoSonic® are registered trademarks and EndoWave™ is a trademark of EKOS Corporation, a BTG International group company. BTG and the BTG roundel logo are registered trademarks of BTG International Ltd. © 2015 EKOS Corporation. US-EKO-2015-0124(4)  MAR 2016


**Safety of EKOS® Technology**

**EKOS® ultrasound is safe in vivo**


**Drugs are unaffected by EKOS® ultrasound field**


FDA Cleared Indications: The EkoSonic® Endovascular System is indicated for the ultrasound facilitated, controlled and selective infusion of physician-specified fluids, including thrombolytics, into the vasculature for the treatment of pulmonary embolism, the controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature, and the infusion of solutions into the pulmonary arteries. Instructions for Use, including warnings, precautions, potential complications, and contraindications can be found at www.ekoscorp.com.

Caution: Federal (USA) law restricts these devices to sale by or on the order of a physician. EKOS® and EkoSonic® are registered trademarks and EndoWave™ is a trademark of EKOS Corporation, a BTG International group company. BTG and the BTG roundel logo are registered trademarks of BTG International Ltd. © 2015 EKOS Corporation. US-EKO-2015-0124(4) MAR 2016

Science of Ultrasound Drug Delivery

**Drug penetration into a clot is enhanced by ultrasound**


**EKOS® proprietary waveforms are more effective at drug delivery**


http://www.karger.com/Article/Pdf/143522


Science of Ultrasound Drug Delivery

**Drug penetration into a clot is enhanced by ultrasound**


**EKOS® proprietary waveforms are more effective at drug delivery**


http://www.karger.com/Article/Pdf/143522