EKOS™ Bibliography
(All Peer Reviewed unless otherwise noted)

Clinical Applications

**Pulmonary Embolism**


Baris VO, Ozcinar E, Ozcan OU, Sirlak M. Ultrasound-assisted, catheter-directed thrombolysis of acute pulmonary embolism via the subclavian vein: an alternative access path. Turk Kardiyol Dern Ars 2016; 44(7): 590-592.  


https://www.ncbi.nlm.nih.gov/pubmed/27666802


https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5220194/

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


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


Venous & Arterial Occlusions


Ozcinar E, Yaman ND, Cakici M, Baran C, Inan MB, Durdu S, Akar AR, Sirlak M. Pharmacomechanical thrombectomy of deep vein thrombosis of the upper extremity. International Angiology 2016 (Sep 7); e-pub ahead of print.  


**Graft thrombosis**


http://www.radiographyonline.com/article/S1078-8174(10)00112-4/pdf
Safety of EKOS™ Technology

EKOS™ ultrasound is safe in vivo


http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=4151936

Drugs are unaffected by EKOS™ ultrasound field


http://scitation.aip.org/content/aip/proceeding/aipcp/10.1063/1.2205472


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

**CE Mark:** The Ekosonic™ Endovascular System is intended for the controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature. Intended for the treatment of pulmonary embolism patients with ≥ 50% clot burden in one or both main pulmonary arteries or lobar pulmonary arteries, and evidence of right heart dysfunction based on right heart pressures (mean pulmonary artery pressure ≥ 25 mmHg) or echocardiographic evaluation. Instructions for Use, including warnings, precautions, potential complications, and contraindications can be found at [www.ekoscorp.com](http://www.ekoscorp.com).

EKOS, the EKOS logo and EkoSonic are trademarks of EKOS Corporation, a BTG International group company. BTG and the BTG roundel logo are trademarks of BTG International Ltd. EKOS, the EKOS logo, EkoSonic, EndoWave, BTG and the BTG roundel logo are registered trademarks in the US, EU and certain other territories.

US-EKO-2015-0124(10) SEP 2017