



EKOS™ Endovascular System

TREAT THE PATIENT **NOT JUST THE CLOT**





This safe, repeatable and reliable treatment dissolves thrombus quickly with low lytic, low blood loss and low trauma, resulting in proven long-term outcomes. EKOS leverages the power of targeted ultrasonic waves to thin and separate fibrin strands and accelerates lytic dispersion deeper into the clot. The new EKOS+ catheter delivers 50% more ultrasound power to resolve PE clot burden more quickly & completely. Backed by long-term data, EKOS is the first choice, smart choice and right choice.

THE DECISION TO INTERVENE IS BACKED BY PATIENT OUTCOMES AND LONG-TERM CLINICAL EVIDENCE

ULTIMA¹

2014

Level 1
Prospective RCT
n=59 Showed that
EKOS was more
effective than
anticoagulants
alone in RV/LV
reduction and was
just as safe

SEATTLE II²

2015

Prospective n=150 Confirmed EKOS improved RV function, pulmonary hypertension and clot burden without an increase in bleeding

OPTALYSE³

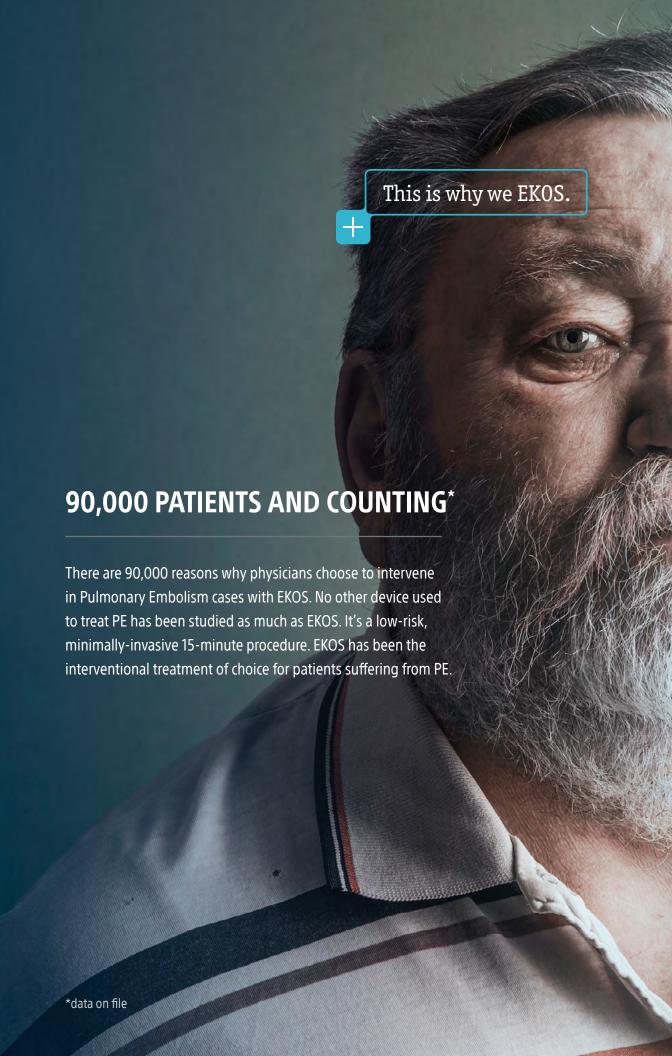
2018

Prospective n=101 Lower doses and shorter infusion times showed similar efficacy as previous studies Long-term data showed RV re-modeling out to one year

KNOCOUT⁴

2021

Retrospective and Prospective n=1,500 Patient Registry to understand OPTALYSE protocol adoption and to provide additional safety, efficacy, and long-term data to the EKOS data set



EKOS[™] Endovascular System

THE FIRST CHOICE

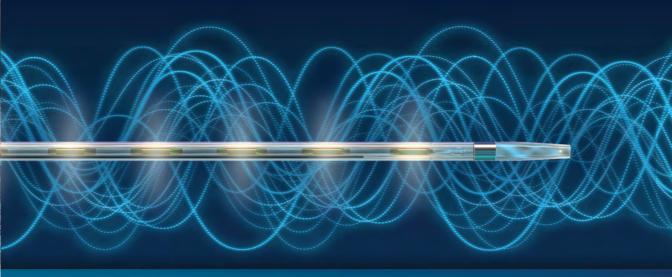
+ Long legacy built on successful patient outcomes and long-term, clinical evidence

THE SMART CHOICE

- + The most studied device in the PE space and the only device with long-term data.3
- + Proven to reduce RV/LV ratio by more than 23% on average in as little as 2 hours of therapy 1,2,3

THE RIGHT CHOICE

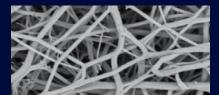
+ Low lytic, low blood loss, low trauma



ULTRASONIC CORE TECHNOLOGY

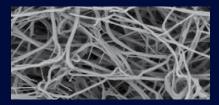
+ Ultrasonic waves accelerate clot dissolution by unwinding and thinning fibrin strands to expose more drug receptor sites; acoustic streaming drives the drug deeper into the clot for safe dissolution

BEFORE EKOS ULTRASOUND



Fibrin protein strands collect in a mesh-like structure strengthening thrombus formation.

AFTER EKOS ULTRASOUND



EKOS Ultrasonic Core Technology unwinds and thins fibrin strands to expose more drug receptor sites.

Introducing EKOS+ SAME PROCEDURE, NOW 50% MORE POWERFUL

ONE 15-MINUTE PROCEDURE

Tailor-made for treating PE, EKOS+ provides interventionalists with more ultrasound power to resolve clot burden more quickly and completely without any required changes to lytic dose, treatment duration, or current clinical practice.







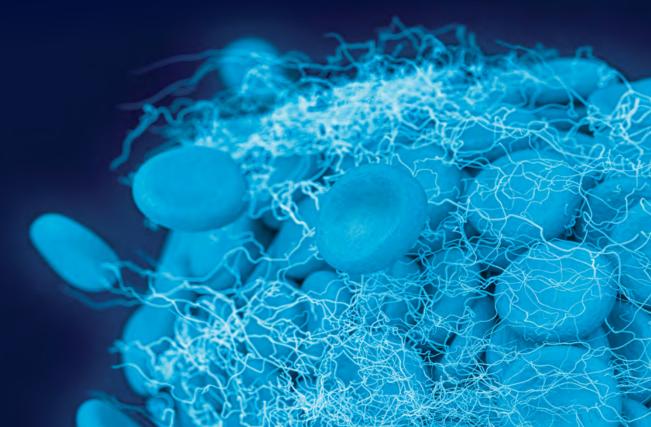
Superior Clot Dissolution

CLOT RESOLUTION COMPARISON

With 50% more ultrasound power, EKOS+ delivers 130% more clot lysis than standard CDT and 32% more lysis than conventional EKOS.*



*bench data on file



EKOS[™] Endovascular System

Product	Working Length	Treatment Zone
500-55106	106 cm	6 cm
500-55112	106 cm	12 cm
500-55118	106 cm	18 cm
500-55124	106 cm	24 cm
500-55130	106 cm	30 cm
500-55140	106 cm	40 cm
500-55150	106 cm	50 cm
500-56112	135 cm	12 cm
500-56130	135 cm	30 cm
500-56140	135 cm	40 cm
500-56150	135 cm	50 cm

5.4 F infusion catheter for all EKOS products

106 cm infusion catheter (0.035" guidewire compatible) with one ultrasonic core matched to corresponding length.

135 cm infusion catheter (0.035" guidewire compatible) with one ultrasonic core matched to corresponding length.

EKOS[™]+ Endovascular System

Product	Working Length	Treatment Zone
H74939605106080	106 cm	8 cm
H74939605106120	106 cm	12 cm
H74939605106160	106 cm	16 cm
H74939605106200	106 cm	20 cm
H74939605135080	135 cm	8 cm
H74939605135120	135 cm	12 cm
H74939605135160	135 cm	16 cm
H74939605135200	135 cm	20 cm

7.8 F infusion catheter for all EKOS+ products

106 cm infusion catheter (0.035" guidewire compatible) with one ultrasonic core matched to corresponding length.

135 cm infusion catheter (0.035" guidewire compatible) with one ultrasonic core matched to corresponding length.

For more information, please visit www.bostonscientific.com/ekos #whyweEKOS

Sources

- 1 Kucher N et al. Randomized, controlled trial of ultrasound-assisted catheter-directed thrombolysis for acute intermediate-risk pulmonary embolism. Circulation. 2014;129:479-486
- ² Piazza G et al. A Prospective, Single-Arm, Multicenter Trial of Ultrasound-Facilitated, Catheter-Directed, Low-Dose Fibrinolysis for Acute Massive and Submassive Pulmonary Embolism. The SEATTLE II Study. J Amer Coll Cardiol: Cardiovasc Interventions 2015; 8(10):1382-1392.
- ³Tapson V et al. A randomized trial of the optimum duration of acoustic pulse thrombolysis procedure in acute intermediate-risk pulmonary embolism. JACC: Cardiovascular Interventions 2018; 11(14):1401-1410.
- ⁴An International Pulmonary Embolism Registry Using EKOS (KNOCOUT PE). https://clinicaltrials.gov/ct2/show/NCT03426124

EKOS" and EKOS". Endovascular Device
CAUTIONE*rederal law (USA) restricts this device to sale by or on the order of a physician. Rx only, Prior to use, please see the complete "Instructions for Use" for
more information on Indications, Contraindications, Warnings, Presautions, Adverse Events, and Operator's Instructions. INITENDED USE The EKOS's Endovascular
Device is intended to be used with EKOS-bonded control systems to employ high frequency (15 MHz to 13 MHz), low-power ultrasound to facilitate the infusion
of physicians-pecified fluids, including procedual fluids and thromobodyrics, into the pulmonary and/or peripheral association adults. It is intended to be used
by physicians experienced in endovascular interventional procedures. The EKOS's Endovascular System is not intended volume in the neurosaculature Refer to the
product inserts supplied with the physician-specified fluids including thromobodyrics, for the treatment of pulmonary embolism and/or appreciations. INDIGATIONIS FOR
USE The EKOS's Endovascular System, consisting of the Infusion Catheter and the Ultrasonic Core; is indicated for the "Ultrasound facilitated, controlled and selective
infusion of physician-specified fluids, including thromobolytics, for the treatment of pulmonary embolism and/or peripheral vasculature.
Clinical Benefit Statement The
EKOS's Endovascular Device is intended for the controlled and selective infusion of physician-specified fluids, including thromobolytic, into the peripheral vasculature
of the pulmonary arteries. The clinical benefit can be measured by overall clinical outcomes, including, but not limited to, improved right ventricular heart function
and hemodynamic stability where treating PE or the ability to Infuse physician-specified fluids, inducing thromoty, only without actor of hemorrhage,
recurrent PE, and all-cause mortality. CONTRAINDICATIONS The EKOS's Endovascular Device is contraindicated for use in: *Patients in whom thrombolytic and/
or anticoagulation therapy is contraindicated or the medical judge or the pulmonary arteries. The clinical benefit can be measured by overall clinical outcomes, including, but not limited to, improved right ventricular heart function and hemodynamic stability when treating Pc or the ability to influed physician-specified fluids into the peripheral vascular loang with low arters of hemorrhage, recurrent PE, and all-cause mortality, COMTRAINDICATIONS The EKGS- Endowscular Device is contraindicated for use in: *Patients in whom thromboyits and/ or anticoagulation therapy is contraindicated. An synt studation in which the medical judgment of the physician determines and procedure may compornise the patients' condition. WARNINGS The following warning statements provide important information for safe operation of the EKGS- Endowascular System. Observe all warnings provided in these Instructions for Use. Failure to do so may result in patient injury, operator injury, or product damage. *Always verify that BOTH electrical connectors from an Ultrasonic Core and Indusion Catheter pair are connected to the SAME connector Interface Cable (CIC). Failure to propely connect be electrical connectors from an Ultrasonic Core influsion Catheter pair are the same CIC could result in over-temperature operation of the Ultrasonic Core or content lay causing damage to the patient's vasculature. *Never aspirate blood back into the drug lumens as pertusion pores and/or drug lumens may become occluded. *Do not connect the influsion Catheter becomes restricted, do not attempt to dear by high pressure infusion. Either remove the Influsion Catheter of Ultrasonic Core is only the content of the content of the Catheter of Ultrasonic Core or with the Ultrasonic Core is candid in the content of the content of the Catheter of Ultrasonic Core or with the Ultrasonic Core or and or interrupting therapy. *Never attempt to use the Ultrasonic Core or with the Ultrasonic Core or with the Ultrasonic Core or with the Ultrasonic Core or solic or kinked at any or with the Ultrasonic Core or with the Ultrasonic Core or wit



Peripheral Interventions

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For more information contact customer service at 1.888.272.1001.

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PI-1322305-AA