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The EkoSonic® Endovascular System is indicated for:

- 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

**NOTE:** The contraindications, warnings and precautions are listed in the IFU.

https://www.btg-im.com/EKOS/US/Customer-support/Indications-Instructions-for-use/
Disease States Treated

- Peripheral Arterial Occlusion, Deep Vein Thrombosis, Pulmonary Embolism
Acoustic Pulse Thrombolysis™ treatment mechanism of action

Fibrin Separation
Ultrasound separates fibrin without fragmentation of emboli

Active Drug Delivery
Drug is actively driven into clot by “Acoustic Streaming”

Acoustic streaming drives lytic into clot

EKOS® Acoustic Pulse Thrombolysis™ treatment is a minimally invasive system for accelerating thrombus dissolution.

How it works

- Physician places the EKOS® device into a thrombosed vessel.
- Patient transported to the nursing unit to be monitored.
- EKOS® system simultaneously delivers low energy, high frequency (2.2 MHz) ultrasound and drug along the entire treatment zone.
  - Auto-regulates power output and temperature of ultrasound transducers.
- Time to clot lysis is dramatically reduced.
Before and after EKOS® treatment

EKOS® Infusion Catheter in place

Follow-up angiogram demonstrating complete lysis

A. Mortarjeme, MD
System components

- 5.4 Fr catheter
- 106 cm working length
  - 6, 12, 18, 24, 30, 40, 50 cm treatment zones
- 135 cm working length
  - 12, 30, 40, 50 cm treatment zones
EkoSonic® Control System

Components

• EkoSonic® Control Unit
• Connector Interface Cable (CIC)
• Battery Backup with Cart

Features

• Controls & monitors output power and temperature of the ultrasound transducers.
• Monitors connection integrity and operating parameters.
Device detail

Infusion Catheter cross-section

- Radiopaque marker
- Ultrasound transducer
- Ultrasonic Core
- Central Coolant Lumen
- Therapy Optimization Sensor
- Drug Lumen (x 3)
- Guidewire or Ultrasonic Core (0.035” diameter)
Device components & connection

• Ensure proper connections
  – **Black** to **Black** and ∆ to ∆
  – **Gray** to **Gray** and O to O

If using two devices and two control units ensure the black and gray pair of wires from one device is connected to the same (CIC) Connector Interface Cable. CROSS CONNECTING AN ULTRASONIC CORE AND INFUSION CATHETER FROM TWO DIFFERENT PAIRS COULD RESULT IN PATIENT INJURY.
DRUG and COOLANT ports

- Infuse heparinized saline or normal saline through the COOLANT port at 35 mL/hr (Max 120 mL/hr).
- Infuse lytic through the DRUG port at a prescribed dose with a flow rate range from 5 mL to 35 mL/hr.
- Do not aspirate from either port or piggyback any other solutions.
- Solutions to the side port of the sheath are at physician discretion.
EkoSonic® Control Unit
Intuitive Interface

Yellow light flashing indicates ultrasound is on.

EKOS® 24/7/365 Help Line 888-356-7435
Power Graph

CHART % TOTAL AVERAGE POWER or YELLOW LIGHT FLASHING EVERY HOUR TO DOCUMENT THERAPY IS RUNNING.

% Total Average Power

Rising Average Power

Elapsed Time

YELLOW LIGHT FLASHING

Therapy Running Indicator

Start

Stop

EKO(S)® 24/7/365 Help Line 888-356-7435
Helpful Tips

• Ensure that CU is plugged into the UPS/battery on the bottom of the cart and the UPS/battery turned ON. Always plug UPS/Battery into hospital-grade AC outlet (battery will last for 60 minutes).

• Ultrasound turns off automatically with any alert condition and must be manually restarted. Troubleshooting icons appear at the bottom of the screen.

• Push the orange STOP button to pause ultrasound during Doppler checks or any diagnostic ultrasound exam. Do not stop infusions. Restart ultrasound when the exam is completed by pushing the green Start button.

• ALWAYS press the orange STOP button to turn off ultrasound before removing the device.
  - If pulling device at bedside, follow hospital protocol. Stop ultrasound, turn stopcocks off to the device, and stop infusions before pulling device.

• See Nursing skills checklist for additional information.
Control Unit troubleshooting tips

- MUTE alarm by pressing the button in the top right hand corner of the control unit.
- Locate alarm icon blinking at the bottom of the screen between the two gray bars.
- Find solutions to alarms in the “Instructions For Use” manual located in the back pocket of the EKOS cart or call the Helpline at 1 (888) 356-7435.
- The EKOS® Help Line is staffed by customer service experts and clinical specialists 24/7/365. Call any time you have questions.
- After the issue is resolved press the GREEN start button. Make sure the YELLOW light is flashing.
More instructional materials online

Please check the Learning Center on the EKOS Corporate website for additional instructional information

https://www.btg-im.com/EKOS/US/Learning-Center/