



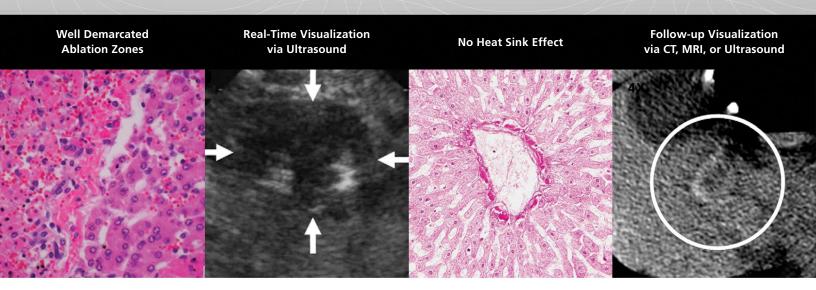




An ablation procedure that uses low energy electrical pulses to create defects (pores) in cell membranes, resulting in loss of homeostasis and subsequent cell death.

A NanoKnife* procedure is an ablation procedure that involves the delivery of a series of high voltage direct current electrical pulses between two electrodes placed within a target area of tissue. The electrical pulses produce an electric field which induces electroporation on cells within the target area. Electroporation is a technique in which an electrical field is applied to cells in order to increase the permeability of the cell membranes through the formation of nanoscale defects in the lipid bilayer. After delivering a sufficient number of high voltage pulses, the cells surrounding the electrodes will be irreversibly damaged. This mechanism which causes permanent cell damage is referred to as Irreversible Electroporation (IRE).

The NanoKnife System carries a CE Mark for cell membrane electroporation. The NanoKnife System has been cleared by the FDA for the surgical ablation of soft tissue. It has not received clearance for the therapy or treatment of any specific disease or condition.



REFERENCES

- Lee EW, Chen C, et al. Radiology. 2010 May;255(2):426-33. doi: 10.1148/radiol.10090337.
- Lee EW, Wong D, et al. J Vasc Interv Radiol. 2012 Jan;23(1):107-13. doi: 10.1016/j.jvir.2011.09.020.
- Martin RCG 2nd. Hepatobiliary Surg Nutr. 2015 Jun; 4(3): 211–215. doi: 10.3978/j.issn.2304-3881.2015.01.10.
- Rubinsky B, Onik G, Mikus P. Technol Cancer Res Treat. 2007 Feb;6(1):37-48. doi: 10.1177/153303460700600106.
- Lee EW, Loh CT, Kee ST. Technol Cancer Res Treat. 2007 Aug;6(4):287-94. doi: 10.1177/153303460700600404.
- Lee EW, Thai S, Kee ST. Gut Liver. 2010 Sep; 4(Suppl 1): S99–S104. doi: 10.5009/gnl.2010.4.S1.S99.
- Ben-David E, Appelbaum L, et al. AJR Am J Roentgenol. 2012 Jan;198(1):W62-8. doi: 10.2214/AJR.11.6940.



SYSTEM COMPONENTS

- Touch screen monitor
- USB Port to export procedure data
- Keyboard and trackpad for data entry
- Up to 6 probes, minimum of 2 probes needed
- Side pockets for cables and foot pedal
- Double foot pedal to activate system
- Wheels to transport to and from storage location





NANOKNIFE SYSTEM

SKU	DESCRIPTION
20300101	NanoKnife System v2.2.0 Includes: Generator, Double Pedal Footswitch, Cardiac Gating Device, and 1-Year Warranty
H787204001030	NanoKnife Single Electrode Probe – Activation - 15 cm
H787204001040	NanoKnife Single Electrode Probe – Standard - 15 cm
H787204001050	NanoKnife Single Electrode Probe – Activation - 25 cm
H787204001060	NanoKnife Single Electrode Probe – Standard - 25 cm
H787204001060	NanoKnife Single Electrode Probe Spacers (Pack of 10)

Please consult your local AngioDynamics representative for country/EU member state specific availability.

INDICATIONS FOR USE:

EU: The NanoKnife System is a medical device for cell membrane electroporation. Electroporation is a phenomenon that occurs in cell membranes as cells are exposed to an electrical field of sufficiently high intensity. The electric field acts as a physical stimulus, bringing about alterations in cell membranes that result in increased permeability. FDA: The NanoKnife is intended for the surgical ablation of soft tissue in the United States. The FDA has not cleared the NanoKnife System for the treatment of any specific disease state or condition.

CONTRAINDICATIONS:

Ablation procedures using the NanoKnife System are contraindicated in the following cases: Ablation of lesions in the thoracic area in the presence of implanted cardiac pacemakers or defibrillators; Ablation of lesions in the vicinity of implanted electronic devices or implanted devices with metal parts; Ablation of lesions of the eyes, including the eyelids; Patient history of Epilepsy or Cardiac Arrhythmia; Recent history of Myocardial Infarction.

POTENTIAL ADVERSE EFFECTS:

Adverse effects that may be associated with the use of the NanoKnife system include, but are not limited to the following: Arrhythmia; Pneumothorax; Muscle contraction; Hemorrhage; Unintended mechanical perforation; Infection; Bradycardia; Vagal Stimulation, asystole; and damage to critical anatomical structure (nerve, vessel, and/ or duct). Indications, contraindications, warnings, precautions and instructions for use can be found in the Instructions for Use supplied with each device. Observe all instructions prior to use. Failure to do so may result in patient complications.

Please refer to the NanoKnife System User Manual and the NanoKnife Single Electrode Probe Directions For Use for complete instructions, warnings and precautions.



USA > 14 Plaza Drive, Latham, NY 12110 > tel: 800-772-6446 or 518-798-1215 > fax: 518-798-1360 International > Haaksbergweg 75 (Margriettoren), 1101 BR, Amsterdam Z-O > The Netherlands tel: +31 (0)20 753 2949 > fax: +31 (0)20 753 2939

www.angiodynamics.com

*AngioDynamics, the AngioDynamics logo, NanoKnife and the NanoKnife logo are trademarks and/or registered trademarks of AngioDynamics, Inc., an affiliate or a subsidiary. © 2017 AngioDynamics, Inc. ANGB 338 INT Rev 01

Distributed in Switzerland by :



Balmer Medical SA

Route de Provence 52, CH-1426 Concise t +41 (0)24 436 29 07 f +41 (0)24 436 29 08

info@balmermedical.ch | www.balmermedical.ch