



Microwave Ablation

Opening a New Era of Minimally Invasive
Treatment for Thyroid Nodule and PTMC

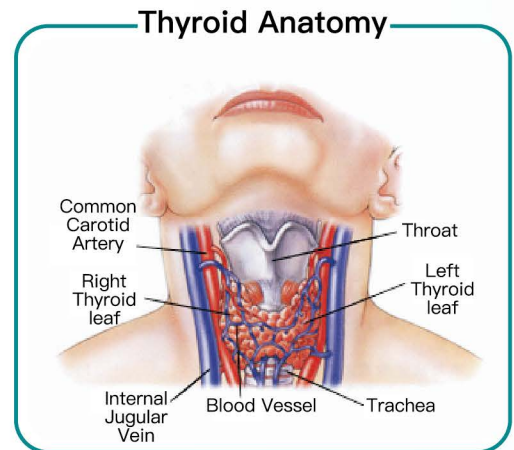
Shorter operation time · Quicker recovery

Present Status of Microwave Ablation on Thyroid Nodules

In recent years, the detection rate of thyroid nodules has been increasing year by year. In random populations, 40% of nodules can be detected by high-resolution ultrasonography. The incidence of thyroid cancer is also increasing, and it is one of the most rapidly growing malignant tumors now. At present, patients are not only asking to cure the tumor, but also to keep the beauty of the neck and not to affect normal life and work.

Compared with traditional extraction, microwave ablation technology can satisfy the requirements of less trauma, less complication, and faster recovery, preserve thyroid function, and also can achieve a better cosmetic effect.

At the same time, microwave ablation can improve the patient's life quality. Among other minimally invasive treatments, microwave ablation has the advantages of fast heating speed, larger ablation volume, short operation time, and good stability, which has become one of the most promising therapeutic methods in the ablation field.



Principle of Microwave Ablation (MWA)

Electromagnetic microwave emitted by a microwave solid-state source is transmitted to the target tissues through a thin microwave antenna which delivers microwave to agitate water molecules in the target tissues, producing friction and heat, and then causing cellular death via coagulation necrosis.

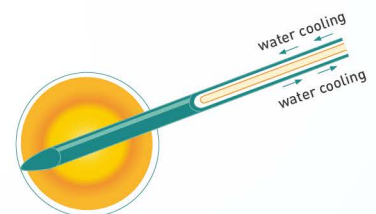
Advantages of ECO Microwave Generator

- CE, FDA approved; 2.45GHz water cooling Microwave System;
- Touch screen interface, easy to operate;
- Multiple safety measures to ensure effectiveness & safety;
- Specially Designed Thyroid Ablation Mode.



Advanced Water Cooling Circulation System

- Internal water cooling antenna;
- Generator with a water pump, easy for operation;
- Effective to minimize normal tissue damages and relieve intraoperational pain.



Advantages of ECO Disposable Microwave Antennas



Advantages of Thyroid Microwave Ablation

Advantages of MWA over Surgery on Thyroid

Easy Procedures

- Local anesthesia and mild sedation
- Outpatient department (2-4hr observation)

Good results and high patient's satisfaction

- Similar results to traditional thyroidectomy
- MIT, lower complications rate, no scar
- Can preserve thyroid function

Advantages of MWA over RFA on Thyroid

Safer

- No current through the body;
- Available to patients with pacemakers and metal implants.

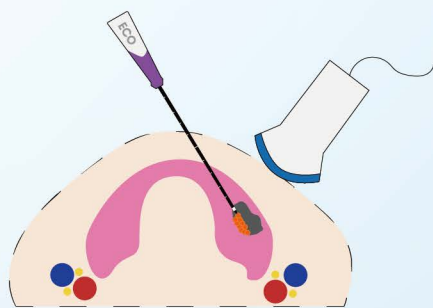
Effective

- Large ablation volume;
- Rapid homogenous heat;
- Short-time procedure.

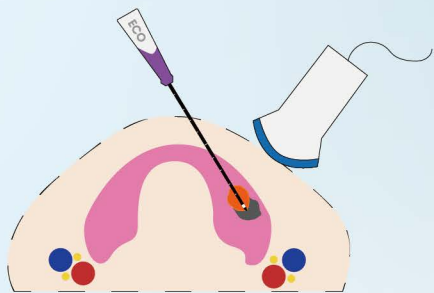
User Friendly

- Moving-shot technique;
- Fixed-position technique.

Two Ablation Methods



Moving-shot Technique



Fixed-position Technique

Indications

- Non-functioning benign thyroid nodules
- Low-risk papillary thyroid microcarcinoma
- Graves' hyperthyroidism
- Autonomously functioning thyroid nodules
- Lymph node metastasis

Applicable Departments



Interventional Radiology Department



Endocrinology Department



Surgery Department



ENT Department

About Us

Established in 2000, ECO Medical is a medical device manufacturer in China. ECO Medical is actively involved in microwave, high-frequency and physical therapy fields. With its vision "To Be No.1 in China and First-Class in the world", and its mission to help employees realize their self-worth and contribute more to human health, ECO Medical is trying every effort to deliver advanced technology and provide product solutions to medical institutions at home and abroad.



ECO MEDICAL TECHNOLOGY (NANJING) CO., LTD. (former: NANJING ECO MICROWAVE SYSTEM CO., LTD.)

Address: 3rd & 4th Floors, J5 Building, NJUT Science & Technology Industrial Park, No.15 Wanshou Road, Jiangbei New Area, Nanjing, Jiangsu, China, 211800.
ECO Medical Instruments Industrial Park, No.19 Xinghui Road, Jiangbei New Area, Nanjing, Jiangsu, China, 210044.

Tel: +86-25-86262828

Fax: +86-25-86262777

Email: info@njeco.com.cn

Website: www.ecomicrowave.com



LinkedIn



ECO Website



Facebook



Youtube

Although we have tried our best to provide accurate and up-to-date information, no responsibility can be accepted for any mistakes contained in this catalogue. The products and descriptions, as shown in this catalogue may be changed without prior notice.