

# ***COBLATION***

***(COLD ABLATION)***

***HAS (FINALLY) COME TO A  
HOSPITAL CLOSE TO YOU!***

# Coblation in brief

**Coblation technology** — a controlled, non-heat driven process — uses **radiofrequency energy** to excite the electrolytes in a **saline solution**, creating energized ionized particles in a plasma. The **ions** then bombard tissue in their path, causing molecular bonds to simply break apart and tissue to dissolve.

This process is possible at **very low temperatures** because any heat generated is consumed by the ionization process

The result is precise volumetric removal of target tissue with **minimal thermal peripheral damage**.

# COBLATION DEVICES

## Coblation-based

## Conventional

Devices

Electrosurgical

Devices

Temperatures

40°C to 70°C

more than 400°C

Thermal Penetration

minimal

deep

Effects on target tissue

gentle removal,

Rapid heating,

dissolution

charring, burning,

Effects on surrounding tissue

minimal

inadvertent charring or burning

# Indications for Coblation

- Adenoidectomy / Tonsillectomy
- Reduction inferior turbinates
- Uvulopalatoplasty and volumetric reduction of the tongue base for obstructive sleep apnoea and snoring
- Tonsil channelling for OSA and snoring
- *Tumour debulking*

# Advantages of Coblation

- Blood-less surgery
- Improved patient comfort
- Cleaner procedures
- No toxic byproducts of ablation
- Minimal instrumentation

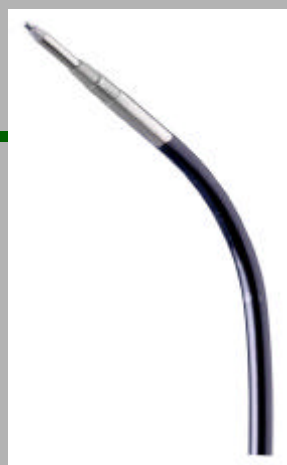
# FDA Indication Statement

The Coblator Plasma surgery system & Wands are indicated for ablation and coagulation of soft tissue in ENT surgery including head, neck, oral, and sinus surgery and including the treatment of snoring, nasal airway obstruction by reduction of hypertrophic nasal turbinates, submucosal tissue shrinkage and tonsillectomy.

# Products

- ENTec Coblator Controller unit
- Channeling Wands : nasal obstruction/ snoring/ obstructive
  - ReFlex Ultra 45      sleep apnoea
  - ReFlex Ultra 55
- Ablation Wands      : adenotonsillectomy / tumours
  - EVac70
- Resection Wands      : tumour surgery
  - Plasma Scalpel
  - Plasma Blade
  - Plasma Hook

# Instrumentation





# Malta Institute for Medical Education

