CHARACTERISTIC	SPECIFICATION
GENERAL	
Number of Gamma Detectors	Up to 3 (with a 4th detector for future use)
Data Acquisition Interval	From 1 minute to 12 hours (Set by user)
Acquisition Period	From 1 minute to 12 days (Set by user)
Detector Cable Length	150cm (5 feet)
Android Tablet	7", HD, 8Gbytes, Android 4.3, Bluetooth
Output Exam Data Format	Tabular multi-column MS Excel file
DETECTORS	
Type and Range of Radiation Measured	Gamma rays. From 60 To 600keV (tbc)
Detector Sensitivity (Point Source)	Min. 12,000 counts/MBq/sec @122keV in contact
Detector Technology	3x3mm or 12x12mm SiPM with single or quad CsI (Tl) crystals
POWER	
CoTI® Control Unit power	Single 9V (PP3) Battery
Estimated Battery Capacity	Depends on number of Detectors and Frequency & Length of Acquisitions
E.g. 2 Detectors, one 24-hour phase, @ 10-second acquisition every 30 minutes	Single non-rechargeable 1100mAh battery will typically last for 3 exams (TBC)
MISCELLANEOUS	
CoTI® Control Unit Weight	200g (7 oz) (including Battery)
CoTI® Control Unit Dimensions	12.7x8.4x3.5cm (5.0x3.3x1.4 inches)
CoTI® Detector Module Weight	30g (1.1 oz) / 50g (1.8 oz) with Collimator
CoTI® Detector Module Dimensions	2.2x4.9x1.5cm (0.9x1.9x0.6 inches) plus Cable
Operating/Storage Temperature	10 to 40°C (50 to 105°F) / -10 to 55°C (15 to 130°F)
Product Lifetime	3 years

Your local partner:

(+33) 1 60 13 53 12 / contact@ag-medical.com / www.ag-medical.com

THE FIRST NON-STOP
DOSIMETRY FOR THYROID
UPTAKE & TREATMENT

CoTI®

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CoTI®

A complete dosimetric holter system for the thyroid and other organs. CoTI® continually indicates and stores gamma radiation activity from the thyroid and other organs, providing real dosimetry information on a patient's physiological reaction to radionuclide therapy.

AG Medical (AGM) has been involved in the development, commercial deployment and after-sales-service of innovative nuclear medicine systems for more than a decade. AG Medical is characterized by the strong expertise of its teams and partners.

WHAT IS CoTI®

Today, AGM has launched CoTI®, **a brand new device** for non-stop dosimetry in I-131 uptake and treatment. **This system allows the follow-up of pharmacokinetics** (PK) for patients undergoing Radionuclide Therapy during which they are placed in isolation rooms.

AG Medical's dosimetry systems **target the quantification and characterization** of RIT agent distribution in organs being treated. They help confirm:

- The agent correctly reached the targeted organ.
- The amount of radiation (dose) absorbed by the organ and tumor: a PK curve is traced and the amount of radiation can be calculated (area under the curve).

AG Medical is at the forefront of bringing personalized medicine to Metabolic Radio Therapy.

CoTI®: Breakthrough technology for innovative solution

WHEN TO USE CoTI®

Routine:

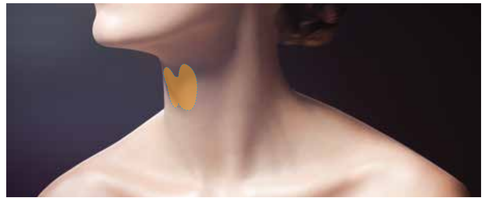
Any thyroid pathology that requires the use of **internal radiation therapy** (thyroid cancer, hyperthyroidism).

CoTI® can be used for monitoring both **therapeutic dose and scout doses** for uptake.

Research:

Any internal radiation therapy procedure **that uses an isotope with gamma emission** in the 60-600keV energy range.

These isotopes include: Lu-177, Y-90... The CoTI® **Detector modules can be placed anywhere on the body.**



A FEW CoTI® FACTS

- **Affordable and compact.**
- Lightweight **easy-to-wear** device.
- Detector module is a **complete gamma radiation counter**, similar to a gamma probe.
- **Real-time gamma count data**. Rates of up to 100,000 counts/second.
- **Up to 4 gamma radiation detectors**, can record from 1min up to 12 days.
- **Displays current and final exam data** (gamma counts) on graphical interface.
- **Nonvolatile memory,** connects to Android tablet during and after use for data retrieval and configuration.
- Configuration step includes patient and exam info for both increased data integrity and **complete exam header in output file.**
- Operates with Standard battery = **no trailing power cables.**
- CoTI® comes with **its own dedicated Android App** that is preloaded onto the CoTI® Tablet.
- **New silicon photomultiplier technology,** with CsI scintillator.

BENEFITS FOR ALL

For the patient

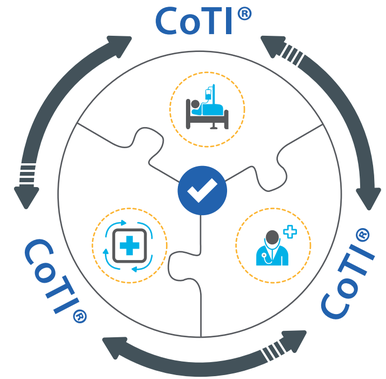
- Improved health care due to optimized patient-specific treatment **(personalized medicine)**.

For the medical staff

- An ability to **follow the PK specific to each patient so that treatment can be adjusted** accordingly and thus limit the dose administered and radiation exposure.
- Wireless technology **reduces physical contact** with patients.

For the Healthcare System

- Because of their optimization, **treatments will be more effective** and should generate fewer recurrences or serious adverse effects, and thus fewer additional expensive treatment regimens.



- **Rapid validation of the response to treatment** (if there is no response, it can be discontinued rapidly).
- **Better turnover** of each isolation room.

CoTI®: Additional advantages for all