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INTRAOPERATIVE LOCALIZATION OF SENTINEL LYMPH NODES PROVIDED BY

SURGEOSIGHT & SURGEOGUIDE



SURGEOSIGHT

Intra-Operative Gamma Camera



PNP

SURGEDSIGHT

SURGEDSIGHT is a portable mini camera developed for pre-surgical lymphoscintigraphy thyroid scan and intra-operative localizing sentinel lymph nodes.

Lymphoscintigraphy and sentinel lymph node biopsy is an area of increasing utility in determining which lymph node basins serve the diseased tissue. The presence or absence of regional lymph node involvement often determines the staging and treatment of many malignant tumors. In some clear words, it can play the role of a "Surgeon's sight" in an operation room.



SURGEOGUIDE

Gamma Probe



SURGEDGUIDE is a hand-held device for intra-operative use following interstitial injection of a radionuclide, to locate regional lymph nodes by their radioactivity. It is used primarily for sentinel lymph node mapping and parathyroid surgery.

SURGEDGUIDE, is based on the injection in the tumor site of a radiopharmaceutical agent that emits gamma rays while it drains towards the lymphatic system. With the help of the gamma probe, the surgeon expeditiously locates the hot sentinel node(s) or cancerous tissues to be pathologically analyzed as these locations accumulate the radiopharmaceutical agent and have a higher gamma count rate than the background.

This technique has become widely accepted in surgical oncology.

Specifications:

Sensitivity: >2 cps/KBq @ face surface

Side shielding: 99.9 % for Tc-99m

Energy Resolution: <11% FWHM for Tc-99m

Length: 21 cm

• Face Diameter: 16 mm

Stainless Steel Body , Tungsten Collimator

Angular Resolution: <30°, 80° (optional)

Local Resolution: <20 mm FWHM at 5 cm distance

Clinical Applications:

Breast cancer

Gynecological cancers (cervical, ovarian, uterine, vaginal and vulvar)

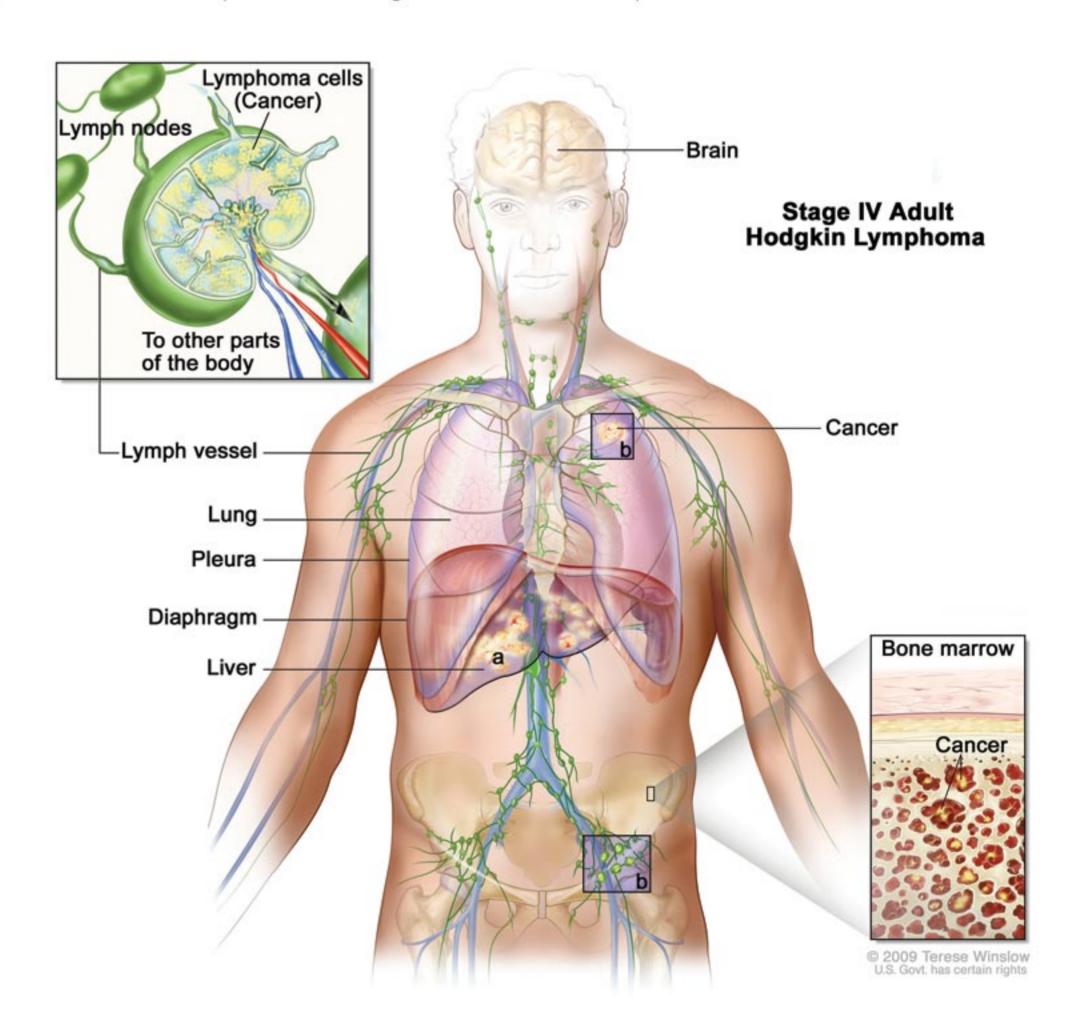
Melanoma and other types of skin tumors

Head & Neck

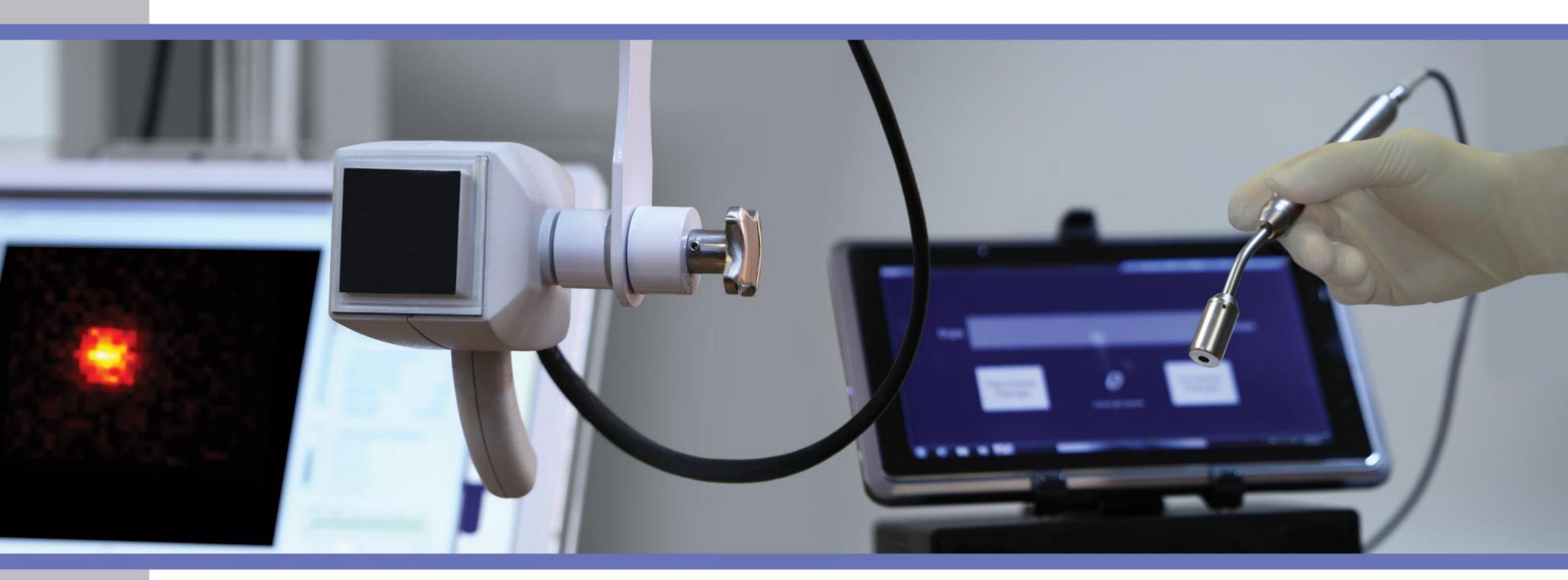
Endocrine cancers (thyroid, parathyroid)

Urology cancers (prostate, bladder, testicular, kidney and penile)

Nuclear Medicine (localization of gamma labeled areas)



The main benefits of using **SURGEOSIGHT & SURGEOGUIDE** on cancer patients' surgeries are:



- 1. provides vital and real time information about the location and extent of disease and resection margins
- 2. Helps decrease the surgical time, the patient morbidity and improves the staging accuracy
- 3. Allows the surgeon to minimize the surgical invasiveness of many diagnostic and therapeutic procedures, whilst maintaining the cancer patient