

Radioimmunoguided Surgery (RIGS) with ^{99m}Tc -CEA. Scan in Three Patients with Primary Colorectal Cancer

Hell J Nucl Med 2001, 4: 176-178

1. Introduction

In cases where the primary site of colorectal cancer has been identified, it is important to know the sites of possible metastases especially when being too small to be visualized by the various imaging modalities. Metastatic disease not only describes the stage of the disease but also determines the kind of treatment to be followed. In colorectal cancer metastatic disease may be identified either by CT scan, MRI, CEA Scan, radioimmunoscinigraphy (RIS) or by exploratory laparotomy. Recently radioimmunoguided surgery (RIGS) has been applied successfully for the intraoperative detection of metastases and residual tumor in colorectal cancer. A study comparing all four diagnostic modalities mentioned above in 11 patients showed that the sensitivity of CT scan, preoperative MoAb scan, surgical exploration and RIGS were 48%, 67%, 76% and 86% respectively¹. Since reports on the actual evaluation of RIGS are few we describe practical points from our experience in 3 more cases of rectal cancer and discuss the advantages and disadvantages of this procedure.

2. Patients and methods

Three presurgical patients, 2 men [38 years old (A) and 72 years old (B)] and one woman [73 years old (C)] with endoscopically proven rectal cancer, performing radioimmunoguided surgery (RIGS) were prospectively studied. The purpose of this study was explained to the patients who gave their oral consent. The tumors were located in less than 10 cm above the inner anal sphincter. CT scans of the abdomen and pelvis were reported normal. Serum samples were taken for testing CEA, CA 19-9 and CA 50, before the injection of ^{99m}Tc labeled CEA antibodies. The above markers were in the normal range except for Patient A who had CEA of 33 ng/ml (normal range 0-10 ng/ml) and CA19-9 of 43.6 U/ml (normal range 0-37 U/ml). Radioimmunoscinigraphy was performed 3-5 hours after the intravenous injection of 740-925 MBq of sodium pertechnetate ($\text{Na}_2 \text{ } ^{99m}\text{TcO}_4$) labeled IgG₁ fab' fragment (IMMU4, CEA-Scan, Immunomedics Inc). Planar images were normal except in Patient A who had abnormal uptake of the radiopharmaceutical in his testis due to bilateral varicocele. Unfortunately SPET

images were not obtained because of a technical problem.

The patients underwent probe-guided surgery 20-24 hours after the injection of the radiopharmaceutical. A portable probe (Scintiprobe MR 100, Biomedical Instruments) was used. The Scintiprobe MR 100 we used has 2 units. The central unit is a hand portable digital counter coupled with a variable frequency generator with adjustable volume sound threshold setting with two independent energy windows. It is of 10 kg weight, connected to a hardware with a graphic program able to give counts per second, real time visualization, counting rate visualization as a function of time, energy spectra visualization for calibration purposes, statistical calculation program and to store measurements and patient data. The probe has a NaI crystal with a total length of 160 mm, external diameter of 18 mm, lateral shielding efficiency > 99.99%, sensitivity threshold of 3.7 kBq, and gamma radiation detecting efficiency of 99%². The energy windows were set for ^{99m}Tc . A sterile dressing was drawn over the probe during surgery.

The surgical procedure was initiated with a xipho-pubic midline incision. A traditional exploration was performed by inspection and palpation. Then using the Scintiprobe, detection and evaluation of counts over different surgical tissues was done. The threshold level of the probe signal processor was adjusted to eliminate the background sound over normal tissues. The Scintiprobe digital counter was connected to a computer, thus the measurements were



Figure 1: The Scintiprobe digital counter connected to a computer.

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children initially gathered together by the eccentric mr benedict the first children s novels written by stewart each of the first three books were published annually from 2007 to 2009 with the fourth installment

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25 2021 it was originally set to premiere on hulu but was acquired by disney in september 2021 the series was renewed for a second season which was released on october 26 2022 on january 29 2023 it was