

Radioimmunosciintigraphy of CEA/CA 19-9 producing tumors with I-131 labeled monoclonal antibodies

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A total of 7 (4 males and 3 females) patients were included in this retrospective study to determine the sensitivity of radioimmunosciintigraphy with I-131 labeled anti CEA/CA 19-9 monoclonal antibodies. Out of 7 patients 2 had ascending colon cancer, one had sigmoid colon cancer, one had rectal cancer and one had adenocarcinoma in the CBD and the remaining two had metastatic tumor (one in the lungs and the other in the liver). Whole body as well as spot images showed a 72% (5/7) positive scan. But post operative specimen counts and imaging showed a high tumor to non-tumor ratio and a good tumor to non-tumor contrast of activity of I-131 labeled monoclonal antibody. We did not find any relation between CEA/CA 19-9 levels and scan findings. A case of liver metastasis was also detected by this radioimmunosciintigraphy.

Key words: CEA, CA 19-9, I-131, monoclonal antibody, radioimmunosciintigraphy