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BACKGROUND

Complete surgery is the milestone of treatment of Five SI-NET patients with liver and abdominal lymph node metastases (4 male and 1 Small Intestine (SI) Neuroendocrine Tumors female, median age 61.8 years (range 51–71 years) were enrolled in our protocol receiving 5 mCi of Y-90-DOTATOC and subsequently operated, with the the ex-vivo analysis of (NET) and could improve the prognosis in these patients. As we recently published, radioguided their surgical specimens. surgery (RGS) with beta-radioisotopes probe, After surgery, patients received the standard and periodical follow up with morphological provides a clearer delineation of the lesions with and functional imaging, blood examinations and clinical visits. low radiation exposition for surgeons. Here we report their follow up, with particular attention to late side effects.

RESULTS

One patient, operated on March 2017, remained stable for 2 years and when progressed, he received PRRT with Lu-177-oxodotreotide (800 mCi) obtaining a stabilization of disease; his blood examinations did not showed any long term toxicity.

One patient, operated on May 2017, has a stable disease at the last follow up of December 2020; he is in therapy with SSA; his blood examinations do not show any haematological or renal impairment.

One patient, operated on July 2017, has a stable disease at the last follow up of December 2020; he is in therapy with SSA; his blood counts and kidney function are normal.

One patient, operated on January 2018, has a stable disease at the last follow up of April 2021; he is in therapy with SSA, with normal blood examinations. One patient, operated on November 2018, presented a systemic progression of disease, after 4 months from surgery, and died few months after (this patient had also an important carcinoid syndrome with carcinoid cardiopapathy).

All the patients tolerated very well the administration of Y-90-DOTATOC and the following surgery; there were no surgical complications or late side effects (no kidney function alteration, normal values on blood counts) during all the

follow up period.

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Long term follow-up of patients with Small Intestine Neuroendocrine Tumors submitted to Ex Vivo Beta- Radioguided Surgery with Y-90-DOTATOC

AIM, MATERIALS AND METHODS



multidisciplinary approach that includes radioguided surgery with Y-90-DOTATOC This administration is a safe procedure. We believe the importance of going on with the trial with the in-vivo application of the technique.



the samples identified by the probe as malignant were actually of tumor tissue,



CONCLUSIONS



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as routine clinical indicated

di Oncologia

