

Targeted Alpha-Emitter Therapy with ²¹²Pb-DOTAMTATE in Neuroendocrine Tumor Subjects who Progressed Following Prior ¹⁷⁷Lu/⁹⁰Y-PRRT (Abstract 382731)

Background

Targeted Alpha Therapy (TAT) with ²¹²Pb-DOTAMTATE has been shown to be safe and effective in subjects with neuroendocrine tumors (NET) who have not received previous PRRT¹, however, data is lacking for the use of TAT once progression occurs.

Study Design and Methods

- Subjects with biopsy-proven unresectable or metastatic SSTR expressing NETs from different primary sites with at least one measurable lesion who progressed after receiving prior PRRT received up to four 8-week cycles of ²¹²Pb-DOTAMTATE at 67.6 μCi/kg/cycle.
- Response to treatment was measured per RECIST 1.1 and ⁶⁸Ga/⁶⁴Cu-DOTATATE PET/CT.
- Safety parameters were also obtained.

arbo-carboplatin: 5Fu-5-fluorouracil: FOLFOX: Leucovorin, 5FU, Oxalit

Table 1: Subject Demographics

Subject	Age	Sex	Tumor Type	Grade	Previous RTx	Previous [*] ChemoTx	Total Activity ⁺ (mCi)
01	79	Μ	Sm. Bowel	G1	¹⁷⁷ Lu	Som/Ever	20.0
02	65	Μ	Thymus	n/a	¹⁷⁷ Lu	Som/Carbo/ CapTem/ Lomustine	23.3
03	70	Μ	Pulmonary	G3	¹⁷⁷ Lu	Som/Ever	22.6
04	64	F	Pancreatic	G2	¹⁷⁷ Lu	Som	22.7
05	56	F	Sm. Bowel	G2	¹⁷⁷ Lu	Som	22.4
06	70	F	Pancreatic	G3	¹⁷⁷ Lu	Som/CapTem/Ever Sut/5-Fu/Cabo/ FOLFOX	15.4
07	69	М	Sm. Bowel	n/a	¹⁷⁷ Lu/ ⁹⁰ Y	Som/Ever	23.1
08	61	Μ	Sm. Bowel	G2	¹⁷⁷ Lu	Som/Ever/CapTem	5.8
09	53	М	Sm. Bowel	G1	¹⁷⁷ Lu	Som	17.3
10	65	Μ	Pancreatic	n/a	¹⁷⁷ Lu/ ⁹⁰ Y	Som/Ever	15.8
11	35	Μ	Pancreatic	n/a	¹⁷⁷ Lu	Som	23.2

Ebrahim Delpassand, MD¹; Izabela Tworowska, PhD¹; Rouzbeh Esfandiari, MD², Julien Torgue, PhD³; Jason Hurt, MD³; Rodolfo Nuñez, MD² ¹RadioMedix, ²Excel Diagnostics and Nuclear Oncology ³OranoMed, LLC



7 of 10 (70%) subjects demonstrated response by SSTR PET/CT imaging



tact information: edelpassand@radiomedix.con

- manageable toxicity and warrants further investigation