

Case Report

Radiomics Analysis for ^{177}Lu -DOTAGA-(l-y)fk(Sub-KuE) Targeted Radioligand Therapy Dosimetry in Metastatic Prostate Cancer—A Model Based on Clinical Example

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Supplementary Materials

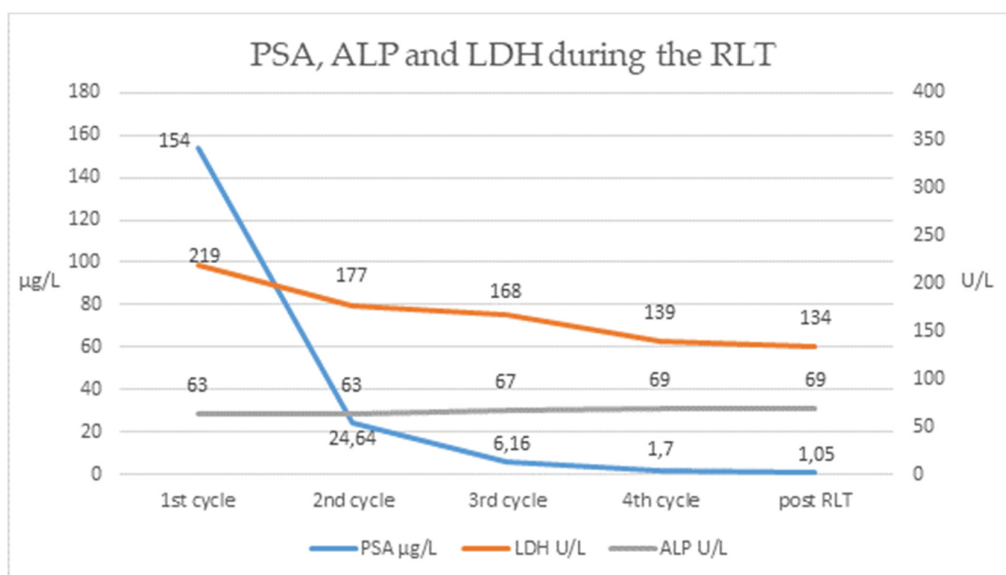


Figure S1. Dynamics of biochemical markers – PSA, ALP and LDH – during the RLT.

Table S1. Size of normal and Critical Organs.

	Size of Normal Organs	
	Voxel-based analysis with DRT Mean±SD (ml)	MIRD Mean±SD (g)
Left Kidney	134.9 ± 3.2	140.4 ± 3.3
Right Kidney	130.6 ± 4.2	136.1 ± 4.4
Liver	1478.9 ± 95.3	1585.9 ± 103.3
Spleen	80.6 ± 7.3	85.1 ± 7.6

Volume of parotid and submandibular glands was measured from CT, it was 23 ml and 5.7 ml respectively. The volume of normal lacrimal glands in Caucasian men – 0.68 ml – found from the literature [1].

Table S2. SPECT SUVmax and its decrease (%) in different types of metastases during RLT.

Lesion	Cycle of RLT	SUVmax at 4h	SUVmax at 24h	SUVmax at 48h
LLN	1st	2.69	2.64	2.06
	2nd	1.14	0.73	0.68
	Decrease from 1st to 2nd cycle (%)	57.6	72.4	67.0
	3rd	disappeared	disappeared	disappeared
	Decrease from 1st to 3rd cycle (%)	100	100	100
DLN1	1st	33.56	14.36	9.8
	2nd	5.73	2.28	1.43
	Decrease from 1st to 2nd cycle (%)	82.9	84.1	85.4
	3rd	3.12	1.19	0.76
	Decrease from 1st to 3rd cycle (%)	90.7	91.7	92.2
	4th	1.96	0.79	0.52
	Decrease from 1st to 4th cycle (%)	94.2	94.5	94.7
DLN2	1st	24.73	11.2	8.9
	2nd	3.56	1.56	1.28
	Decrease from 1st to 2nd cycle (%)	85.6	86.1	85.6
	3rd	disappeared	0.94	disappeared
	Decrease from 1st to 3rd cycle (%)	100	91.6	100
	4th	disappeared	0.5	disappeared
	Decrease from 1st to 4th cycle (%)	100	100	95.5
B1	1st	9.5	4.21	2.61
	2nd	1.83	0.92	0.64
	Decrease from 1st to 2nd cycle (%)	80.74	78.15	75.48
	3rd	1.02	0.52	0.35
	Decrease from 1st to 3rd cycle (%)	89.26	87.65	86.6
	4th	0.66	0.32	0.22
	Decrease from 1st to 4th cycle (%)	93.05	92.4	91.57
B2	1st	5.72	2.33	1.56
	2nd	1.23	0.42	0.29
	Decrease from 1st to 2nd cycle (%)	78.5	81.9	81.4
	3rd	disappeared	disappeared	disappeared
	Decrease from 1st to 3rd cycle (%)	100	100	100
B3	1st	2.9	0.96	0.66
	2nd	1.32	0.27	0.15
	Decrease from 1st to 2nd cycle (%)	54.5	71.9	77.3
	3rd	disappeared	disappeared	disappeared
	Decrease from 1st to 3rd cycle (%)	100	100	100

References

1. Bingham, C.M.; Castro, A.; Realini, T.; Nguyen, J.; Hogg, J.P.; Sivak-Callcott, J.A. Calculated CT volumes of lacrimal glands in normal Caucasian orbits. *Ophthalmic Plast. Reconstr. Surg.* **2013**, *29*, 157–159, doi:10.1097/IOP.0b013e3182859751.