



Supplemental Figure 1. Bland-Altman-Plot of mean-differences of ⁶⁸Ga-DOTATOC and ⁶⁸Ga-DOTATATE mean SUV_{max} of all 40 patients. x-axis: Average of ⁶⁸Ga-DOTATOC and ⁶⁸Ga-DOTATATE mean SUV_{max}, y-axis: ⁶⁸Ga-DOTATATE mean SUV_{max} minus ⁶⁸Ga-DOTATOC mean SUV_{max}. Horizontal lines are drawn at the mean difference (solid line), and at the mean difference plus and minus 1.96 times the standard deviation of the differences (dashed lines).

Supplemental Table 1: Patients characteristics

Pat. No.	Age [yrs]	Sex	Primary NET site	Previous treatments	KI-67	SUVmax ⁶⁸ Ga-DOTATATE	SUVmax ⁶⁸ Ga-DOTATOC
1	66	Male	CUP	none	3	16.6	23.4
2	51	Female	CUP	surgery (metastases)	<1	15.5	17.8
3	48	Female	CUP	surgery (metastases)	n.a.	12.4	14.7
4	52	Female	CUP	PRRT	20	10.4	14.9
5	70	Male	CUP	chemotherapy, somatostatin analogues, PRRT	3	8.9	10.9
6	58	Male	CUP	surgery, radiation, somatostatin analogues, PRRT	4	17.7	20.1
7	67	Female	foregut (bronchial)	PRRT	7	10.8	12.0
8	56	Female	foregut (bronchial)	chemotherapy, radiation, PRRT	<2	5.9	6.9
9	51	Female	foregut (bronchial)	surgery	3	9.3	7.7
10	70	Male	foregut (bronchial)	somatostatin analogues	5	17.1	13.9
11	61	Male	foregut (esophageal)	surgery, somatostatin analogues	30	14.4	14.5
12	49	Male	foregut (gastric)	surgery, SIRT, PRRT	30	11.1	13.8
13	27	Male	foregut (thymic)	surgery, chemotherapy, radiation, Erlotinib, PRRT	>20	10.9	15.3
14	67	Female	malignant paraganglioma	surgery, chemotherapy, PRRT	n.a.	4.8	6.8
15	77	Female	midgut	surgery, chemotherapy	5	25.5	29.2
16	70	Male	midgut	chemotherapy	<1	17.8	26.2
17	62	Female	midgut (appendiceal)	surgery, chemotherapy, PRRT	5	8.5	12.3
18	72	Male	midgut (caecal)	surgery	<1	24.1	30.0
19	72	Male	midgut (duodenal)	surgery	n.a.	7.4	10.7
20	65	Male	midgut (ileal)	surgery, somatostatin analogues	<2	13.8	18.4
21	79	Male	midgut (ileal)	surgery, chemotherapy, interferon alpha, PRRT	n.a.	18.2	21.1
22	58	Male	midgut (ileal)	surgery, somatostatin analogues	5	19.1	12.3
23	61	Male	midgut (ileal)	surgery	1	10.3	14.5
24	57	Male	midgut (ileal)	somatostatin analogues, PRRT	1	15.6	30.2
25	46	Male	midgut (ileal)	surgery, somatostatin analogues	<2	15.6	32.4
26	69	Female	midgut (ileal)	surgery, SIRT	40	28.0	12.9
27	54	Male	midgut (ileal)	surgery, somatostatin analogues, PRRT, TACE	<1	17.0	12.1
28	70	Male	midgut (ileoceaical)	surgery, somatostatin analogues, PRRT	<1	11.2	15.5
29	81	Male	midgut (ileoceaical)	surgery, somatostatin analogues	<2	10.3	10.1
30	71	Male	midgut (jejunal)	surgery, somatostatin analogues	10	28.2	22.2
31	66	Male	midgut (jejunal)	none	<1	9.9	12.0
32	48	Female	pancreas	surgery, somatostatin analogues	<2	6.8	6.9
33	59	Male	pancreas	none	30	20.0	28.1

34	46	Male	pancreas	surgery (metastases), chemotherapy, PRRT	3	27,0	33,8
35	56	Female	pancreas	surgery, chemotherapy, SIRT, TACE, PRRT	10	18,9	20,0
36	55	Female	pancreas	PRRT	5	20,0	25,5
37	67	Male	pancreas	surgery	5	16,4	21,5
38	66	Male	pancreas	surgery	5	12,8	18,1
39	53	Male	pancreatic gastrinoma	surgery	<1	13,8	46,6
40	50	Male	pancreatic insulinoma	somatostatin analogues	n.a.	30,2	60,5

CUP=cancer of unknown primary, NET=neuroendocrine tumour, n.a.=not available, PRRT= peptide receptor radionuclide therapy, SIRT=selective internal radiation therapy, TACE=transarterial chemo embolization

Supplemental Table 2: Regional analyses – positive regions per patient

Pat. No. (n=31)	Regions positive*	
	⁶⁸ Ga-DOTATATE	⁶⁸ Ga-DOTATOC
1	2	2
2	1	1
4	3	3
6	4	4
8	1	1
9	1	1
10	3	3
11	1	1
12	2	2
13	4	4
14	4	5
16	3	3
17	4	4
18	1	1
19	1	1
22	2	2
23	2	2
24	2	2
25	2	2
27	1	1
28	2	2
30	2	2
31	4	4
32	2	2
34	4	4
35	1	1
36	5	5
37	6	6
38	3	3
39	2	2
40	3	3
<i>Sum</i>	78	79
<i>Mean</i>	3	3

* excluding the composite region "lymph nodes"

Supplemental Table 3: Regional analyses – lesions per region

Region	Number of patients	
	⁶⁸ Ga-DOTATATE	⁶⁸ Ga-DOTATOC
Head/Neck	3	4
Mediastinum	9	9
Lung	5	5
Liver	25	25
Pancreas	6	6
Abdomen/Pelvis	17	17
Bone	13	13
Lymph nodes*	20	21

* composite region

Supplemental Table 4: Regional analyses – lesions per patient

Pat. No. (n=31)	Lesions per patient*	
	⁶⁸ Ga-DOTATATE	⁶⁸ Ga-DOTATOC
1	2	2
2	1	2
4	11	11
6	13	13
8	5	5
9	1	1
10	11	11
11	1	1
12	10	10
13	18	19
14	8	9
16	9	9
17	15	16
18	5	5
19	1	1
22	6	6
23	7	7
24	7	7
25	6	7
27	5	5
28	6	7
30	8	8
31	15	15
32	10	10
34	8	8
35	5	5
36	18	18
37	19	19
38	11	12
39	3	4
40	9	9
<i>Sum</i>	254	262
<i>Mean</i>	8,2	8,5

* excluding the composite region "lymph nodes"