Supplementary Table 1. Mean body weight, body condition score, muscle condition score and systolic blood pressure in 80 hyperthyroid cats before (T0) and after (T1) radioiodine treatment

	то	T1	Estimated difference; T1-T0 (95% confidence interval)	<i>p</i> -value
	Mean (SD)	Mean (SD)		Paired t-test
Body weight (kg)	4.2 (1.1)	4.7 (1.2)	0.5 (0.4, 0.6)	<0.001
Blood pressure (mmHg)	178.9 (29.45)	160.8 (32.43)	-18.1 (-27.7, -8.6)	<0.001
	Median (IQR)	Median (IQR)		Wilcoxon signed-
		Median (IQK)		rank test
Body condition score (out of 9)	4.0 (3-5)	5.0 (4-5)	1 (0.5,1)	<0.001
Muscle condition score (out of 4)	3 (2-3)	4 (3-4)	1 (0.5,1)	<0.001

Legend: T0, before treatment; T1, after treatment

Supplementary Table 2. Clinicopathologic data before (T0) and after (T1) radioiodine

treatment in 66 cats with a total thyroxine concentration within the reference interval

after treatment.

		то		T1	Estimated mean difference; T1-T0 (95% confidence		
	n	Mean (SD)	n	Mean (SD)	interval)	<i>p</i> -value*	
PCV (%)	66	36.4 (4.3)	66	34.1 (0.0)	-2.3 (-3.3, -1.3)	<0.001	
TP (g/dL)	66	68.5 (5.6)	66	73.9 (5.0)	5.4 (4.0, 6.9)	<0.001	
Serum TT4 (µg/dL)	66	10.7 (4.3)	66	1.6 (0.5)	-9.11 (-10.2, -8.0)	<0.001	
Serum Creatinine (mg/dL)	66	0.94 (0.34)	66	1.6 (0.4)	0.65 (0.6, 0.8)	<0.001	
Serum urea (mg/dL)	66	8.5 (2.6)	66	10.2 (2.6)	1.7 (1.2, 2.2)	<0.001	
Serum SDMA (µg/dL)	63	12.7 (5.9)	63	16.5 (13.5)	3.8 (1.4, 6.2)	0.002	
Urine specific gravity	62	1.041 (0.010)	62	1.033 (0.014)	-0.007 (-0.010, - 0.004)	<0.001	

Legend: *Paired t-test; T0, before treatment; T1, after treatment; TP, total protein; TT4, total

thyroxine; SDMA, symmetric dimethylarginine

Supplementary Table 3. Clinicopathologic data before and after radioiodine treatment in 12 cats

	Befo	re treatment	Afte	r treatment	Estimated mean difference; T1-T0 (95% confidence	<i>p</i> -value*	
	n	Mean (SD)	n	Mean (SD)	interval)		
PCV (%)	12	36.6 (6.9)	12	31.7 (4.9)	-4.9 (-8.0, -1.8,)	0.005	
TP (g/dL)	12	70.9 (5.3)	12	79.0 (5.2)	8.1 (4.3, 11.9)	0.001	
Serum TT4 (µg/dL)	12	9.3 (5.5)	12	0.55 (0.1)	-8.8 (-12.3, -5.3)	<0.001	
Serum Creatinine (mg/dL)	12	1.0 (0.3)	12	1.8 (0.5)	0.8 (0.6, 1.1)	<0.001	
Serum urea (mg/dL)	12	23.8 (6.7)	12	35.9 (11.8)	12.0 (5.6, 18.5)	<0.001	
Serum SDMA (µg/dL)	10	16.0 (13.10)	10	12.3 (3.9)	-3.7 (-12.6, 5.1)	0.36	
Urine specific gravity	12	1.040 (0.009)	12	1.033 (0.013)	-0.007 (-0.013, 0)	0.04	

Legend: *Paired t-test; T0 before treatment; T1, after treatment; TP, total protein; TT4, total

thyroxine; SDMA, symmetric dimethylarginine

Supplementary Table 4. Multivariable analysis using a general linear model to assess the effect of extra-renal variables on SDMA at before (T0) and after (T1) radioiodine treatment.

	Difference of means								
Extra-renal variables	Time	df	F	Direction of difference		95% CI	P-value		
Body condition score	Т0	1, 62	0.24	9-1	-0.0076	-0.0385, 0.0233	0.626		
	T1	1, 71	0.03	9-1	-0.00089	-0.01056, 0.00878	0.854		
Muscle condition score	то	1, 62	1.56	4-0	-0.0266	-0.0692, 0.0160	0.216		
	T1	1, 71	0.20	4-0	0.00394	-0.01354, 0.02142	0.655		
Sedation	Т0	1, 62	2.10	Yes-No	0.0218	-0.0082, 0.0518	0.152		

Legend: T0, before treatment; T1, after treatment

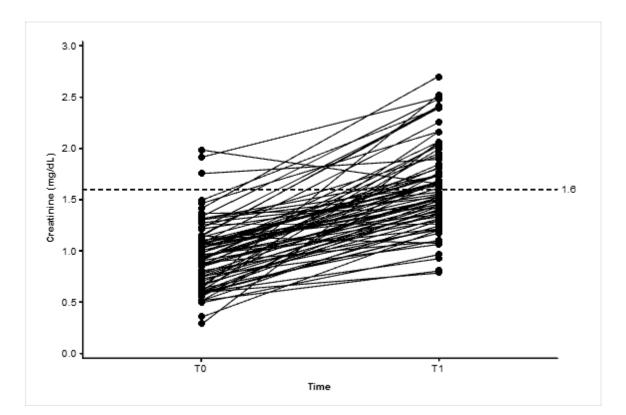
Supplementary Table 5. Multivariable analysis using a general linear model to assess the effect of extra-renal variables on creatinine at before (T0) and after (T1) radioiodine treatment.

	Difference of means							
Extra-renal variables	Time	df F		Direction Estimate of difference		95% CI	P-value	
Body condition score	Т0	1, 65	0.11	9-1	2.73	-13.62, 19.07	0.740	
	T1	1, 62	0.05	9-1	0.014	-0.113, 0.141	0.822	
Muscle condition score	Т0	1, 65	0.03	4-0	-2.00	-23.80, 19.80	0.858	
	T1	1, 62	0.20	4-0	0.052	-0.179, 0.284	0.653	
Sedation	т0	1, 65	0.19	Yes-No	-3.40	-19.17, 12.37	0.668	

Legend: T0, before treatment; T1, after treatment

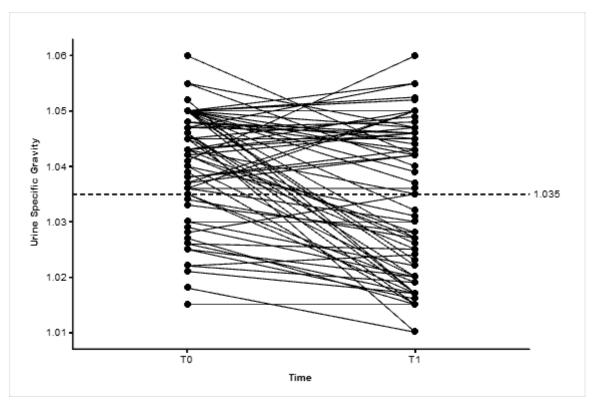
Supplementary Figure 1. Serum creatinine of 80 cats before (T0) and after (T1) radioiodine

treatment.



Legend: T0, before treatment; T1, after treatment. The dotted line represents the serum creatinine cut-off value for renal azotemia according to International Renal Interest Society chronic kidney disease staging guidelines.

Supplementary Figure 2. Urine specific gravity in 76 Cats before (T0) and after (T1) radioiodine treatment.



Legend: T0, before treatment; T1, after treatment. The dotted line represents the lower cut-off for adequate urine concentration according to International Renal Interest Society chronic kidney disease staging guidelines.