

Table S1 Characteristics of 14 patients before surgery for Cushing's disease (CD)

Pt	Age at CD diagnosis	Sex	Disease duration (years)	Tumor size (mm ³)	Thyroid USG	TSH (μIU/mL)	FT3 (pg/mL)	FT4 (ng/dL)	TPOAb	TgAb
1	33	F	3	8*8*6	Normal	2.237	2.83	1.047	neg	neg
2	35	F	7	3*2*2	Normal	0.650	2.66	0.893	neg	neg
3	28	F	3	10*8*8		1.335	2.00	1.233		
4	80	F	5	20*32*18		1.183	1.37	0.691		
5	26	F	3	5*5*5		1.154	2.45	1.068		
6	45	F	8	5*3*3	D	1.379	2.76	1.126	neg	neg
7	23	F	1.6	6*6*6	D	1.935	2.93	1.230	neg	neg
8	32	F	4	5*5*5		0.798	2.56	0.983		
9	16	F	1.5	4*5*6	D	1.390	2.96	1.128		
10	31	F	1	4*4*4	D	0.481	2.26	0.940		
11	47	F	8	4*3*2		2.206	2.53	1.330		
12	35	F	2	8*6*6		1.331	2.56	0.871		
13	29	F	3	5*5*4		0.746	2.57	1.223		
14	35	F	8	8*7*6		1.099	2.82	1.180	neg	neg

D thyroid with normal size but with nodules. neg, negative; USG, ultrasonography; TPOAb, anti-thyroid peroxidase antibody; TgAb, anti-thyroglobulin antibody; FT4, free thyroxine; FT3, free triiodothyronine; TSH, thyroid stimulating hormone; Hormonal normal values, FT4: 0.81–1.89 ng/dL; FT3: 1.8–4.1 pg/mL; TSH: 0.38–4.34 μIU/mL. The patients are numbered according to the time when their surgeries were performed.

Table S2 Clinical profiles of 14 patients with postoperative thyrotoxicosis after surgery for Cushing's disease

Pt	Onset of TT%	Duration of TT (m)	Sub hypo	TSH [#] (μIU/mL)	FT3 [#] (pg/mL)	FT4 [#] (ng/dL)	TRAb	TPOAb	TgAb	Cortisol [#] (μg/dL)	Treatment before TT	Management of TT
1	3.2	+P	-	0.047	5.59	1.647	pos	pos	pos	14.47	none	ob first, then ATDs+β
2	5.1	2.1	+P	0.009	5.93	1.971				0.20*	H, L-T4, E	H↑, Dc
3	7.3	2.1	+P	0.008	6.00	2.264				0.50*	H, L-T4, E	H↑+β, Dc
4	1.6	1.2	+P	<0.008	3.99	2.041		neg	pos	5.04*	H, L-T4	H↑, Dc
5	2.7	2.3	+P	0.012	13.32	6.390	neg	pos	pos	4.33*	H	H↑+β
6	4.5	1.1	+T	0.018	14.55	2.768	neg	neg	neg	1.11*	H	H↑+β
7	5.1	1.3	+T	0.361	4.55	0.966				3.03*	H	H↑
8	3.7	3.2	+T	0.011	5.96	1.640		neg	neg	3.31*	H	H↑
9	1.2	1.9	+T	0.007	10.22	3.660	neg	neg	neg	10.36*	H	H↑+β
10	4.7	1.3	-	0.375	4.14	1.072				0.51*	H	H↑
11	3.2	2.8	-	0.271	4.95	1.406				0.77*	H	H↑
12	2.9	1.6	-	<0.008	9.88	3.273	neg	neg	neg	0.39*	H	H↑+β
13	3.2	2.8	-	0.101	4.77	1.420				6.06*	H	H↑
14	4.1	1.0	+P	0.009	>20.00	7.050	neg	neg	neg	1.33*	H	prednisone+β

% months after surgery; [#] tested at the time of diagnosis of thyrotoxicosis; * tested before the morning hydrocortisone administration; TT, thyrotoxicosis; Sub hypo, subsequent hypothyroidism; pos, positive; neg, negative; +P, permanent; +T, transient; H, hydrocortisone; H↑, higher dose of hydrocortisone; TRAb, anti-thyrotropin receptor antibody; - no subsequent hypothyroidism; L-T4, levothyroxine; Dc, discontinue levothyroxine; β, β-blockers; ATDs, anti-thyroid drugs; E, estrogens. Hormonal normal values, FT4: 0.81–1.89 ng/dL; FT3: 1.8–4.1 pg/mL; TSH: 0.38–4.34 μIU/mL, cortisol: 4.0–22.3 μg/dL.