

## Supplementary File

**Table S1.** Bone mineral density (BMD) before and 7 months after surgery

	BMD (T-score)		
	Baseline	7 months after surgery	Change (%)
Lumbar spine (L2–L4)	–2.34	3.23	+66.6
Femoral neck	–4.10	–1.60	+37.0

**Table S2.** Serum and urine biochemistry baseline, during symptomatic treatment, and after surgery

	Baseline	Symptomatic treatment*	After surgical treatment**	
			7 months	13 months
Serum calcium [mg/dL] (8.4–10.2)	9.00	9.10	9.30	9.80
Serum phosphate [mg/dL] (2.7–4.5)	1.40	2.30	3.80	4.00
Alkaline phosphatase [U/L] (42–128)	244.00	301.00	101.00	97.00
1,25(OH) <sub>2</sub> D [pg/mL] (19–54)	1.70			43.70
25OHD [ng/mL] (20–70)	21.40		12.30	24.00
Serum Creatinine [mg/dL] (0.6–1.3)	0.58	0.63	0.64	0.71
PTH [pg/mL] (10–60)	27.00		22.50	
FGF 23 [pg/mL]	102.90			0.90
Urine calcium [mg/24 h] (100–320)	42.00	90.00	233.00	
Urine phosphate [g/24 h] (0.4–1.3)	0.29	0.70	0.45	
TmP/GFR [mg/dL] (2.78–4.18)	1.17	1.84	3.95	4.16
%TRP [85–95]	84.00	80.00	92.40	92.00

\*alfacalcidol, phosphate salts, calcium carbonate; \*\*supplementation with calcium carbonate and vitamin D; TmP/GFR — tubular maximum phosphorus reabsorption/glomerular filtration rate; %TRP — the percentage tubular reabsorption of phosphate; 1,25(OH)<sub>2</sub>D — 1 $\alpha$ ,25-dihydroxyvitamin D; 25(OH)D — 25-hydroxy-vitamin D; PTH — parathormone; FGF 23 — fibroblast growth factor