

Table 1. Serum and urinary biochemical data and normal ranges of our three patients at admittance^a

Analyte (unit of measure)	Case 1	Case 2	Case 3	Normal ranges
Total calcium (mg/dl)	10.7	13.0	15.3	8.2–10.4
Ionized calcemia (mmol/L)	1.30	1.52	1.90	1.10-1.30
Phosphorus (mg/dl)	2.6	2.2	3.1	2.5-4.6
Magnesium (mg/dl)	2.1	1.8	1.5	1.5-3.8
Sodium (mmol/L)	138	143	134	130-148
Potassium (mmol/L)	3.9	4.6	3.4	3.5-5.2
Creatinine (mg/dl)	0.5	0.6	2.2	0.5-1.4
Urea nitrogen (mg/dl)	25	39	84	10-50
Total proteins g/dl	6.9	7.6	5.8	6-8.2
Alkaline phosphatase (U/L)	133	522	274	0-270
PTH (pg/ml) ^b	320	899	1266	12-62
Vitamin D (ng/ml)	50.7	45.2	36.9	20-100
1, 25 OH-vitamin D (ng/ml)	40.8	35	28	20-120
Osteocalcin (ng/ml)	10.60	22.90	21.4	1.60-17.4
Calcitonin (pg/ml)	<2.0	<2.0	<2.0	0-12
Chromogranin A (ng/ml)	81	40	556	<100
Neuron Specific Enolase (ng/ml)	8.40	4.40	3.4	4-14.7
Serum Carcinoembryogenic antigen (µg/L)	0.6	1.2	2.1	0-5.0
CA 19.9	7.0	37.6	2.5	0-40
FT3 (pg/ml)	3.8 ^c	3.5	2.8	2-4.4
FT4 (pg/ml)	12.9 ^c	14.3	11.7	9.4-17.2
TSH (uIU/ml)	2.0 ^c	1.20	0.52	0.25-4.20
Plasma epinephrine (pg/ml)	45.3	15.7	23.7	10-80
Plasma norepinephrine (pg/ml)	318.8	114	288	95-548
URINE				
Creatinine clearance (ml/min)	82.2	91.5	-	70-120
Calcium (mg/24h)	345	540	-	100-300
Phosphorus (g/24h)	1.0	3.1	-	0.8–1.0
OH-proline (mg/24h)	34.5	58	-	14-45
Epinephrine (µg/24h)	15.2	3.4	5.30 ^d	1.7-22.4
Norepinephrine (µg/24h)	60.4	69	50.90	12.1-85.5
Metanephrine (µg/24h)	118.8	119.2	92.60	52-341
Dopamine (µg/24h)	320	215	175	0-498

^a Boldface values indicate abnormality. ^b Serum intact PTH was measured using a solid-phase, two-site chemiluminescent enzyme-labeled immunometric assay (Immulite 2000). ^c under L-Thyroxine therapy (100 µg/die). ^d At time of admittance to our hospital, the patient had severe hydronephrosis and an ureteral stent. It was thus difficult to evaluate the urinary parameters on a 24h sample. Urinary epinephrine, normetanephrine and metanephrine were determined afterwards.