

# Use of cinacalcet in nephrolithiasis associated with normocalcemic or hypercalcemic primary hyperparathyroidism: Results of a prospective randomized pilot study

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**Table 1.**  
Group statistics by gender.

Gender	(0 = Female; 1 = Male)	N	Mean	St. deviation
NS0	0	5	4,00	3,46
	1	5	2,00	0,71
NS1	0	5	4,20	3,35
	1	5	2,20	0,84
NS2	0	5	3,80	3,49
	1	5	0,80	0,84
SD0	0	5	0,94	0,18
	1	5	0,67	0,15
SD1	0	5	0,97	0,41
	1	5	0,59	0,22
SD2	0	5	0,71	0,36
	1	5	0,24	0,24
CU0	0	4	220,50	136,55
	1	4	324,00	368,93
CU1	0	4	185,00	60,60
	1	4	328,75	357,15
CU2	0	5	228,80	133,23
	1	5	221,00	185,71
CU_CR0	0	4	0,19	0,08
	1	4	0,18	0,19
CU_CR1	0	5	0,16	0,10
	1	5	0,12	0,18
CU_CR2	0	5	0,29	0,14
	1	5	0,13	0,10
PU0	0	4	713,50	162,97
	1	4	919,75	217,75
PU1	0	4	674,50	137,91
	1	4	849,50	160,11
PU2	0	5	688,00	257,48
	1	5	725,60	237,61
P0	0	5	2,96	0,83
	1	3	2,97	0,57
P1	0	5	3,24	0,86
	1	4	3,27	0,76
P2	0	5	3,86	0,78
	1	5	3,38	0,43
C0	0	5	10,02	0,93
	1	5	10,00	0,97

Gender	(0 = Female; 1 = Male)	N	Mean	St. deviation
C1	0	5	10,32	0,93
	1	5	10,11	1,05
C2	0	5	8,98	0,78
	1	5	9,01	0,51
PTH0	0	5	154,90	79,72
	1	5	117,82	68,02
PTH1	0	5	141,56	79,99
	1	5	111,60	71,68
PTH2	0	5	72,42	34,82
	1	5	65,40	46,13
MGU0	0	4	66,25	12,45
	1	4	143,50	38,97
MGU1	0	4	74,00	15,60
	1	4	122,00	54,28
MGU2	0	5	92,80	31,44
	1	5	124,40	54,22
GFR0	0	5	75,64	23,32
	1	5	74,22	27,92
GFR1	0	5	73,50	23,67
	1	5	71,48	25,19
GFR2	0	5	75,16	24,65
	1	5	66,94	24,86
CRU0	0	4	1130,00	346,22
	1	4	1677,50	184,10
CRU1	0	4	945,00	117,90
	1	4	1652,50	269,00
CRU2	0	5	826,00	280,50
	1	5	1512,00	249,94
DU0	0	4	1,39	0,86
	1	4	2,10	0,55
DU1	0	4	1,98	1,05
	1	4	2,38	0,68
DU2	0	5	2,01	0,80
	1	5	2,32	0,66
CU_W0	0	4	3,23	2,31
	1	4	3,85	4,36
CU_W1	0	4	2,84	1,36
	1	3	4,39	4,90

Gender	(0 = Female; 1 = Male)	N	Mean	St. deviation
CU_W2	0	5	3,77	2,82
	1	5	2,71	2,28
W0	0	5	67,90	14,56
	1	5	82,90	9,80
W1	0	5	67,20	14,41
	1	5	81,20	9,41
W2	0	5	67,80	18,40
	1	5	81,82	9,17
CITRU0	0	4	394,50	278,70
	1	4	715,75	385,26
CITRU1	0	4	416,50	430,77
	1	4	614,00	252,99
CITRU2	0	5	343,00	175,28
	1	5	568,20	321,98
PHFU0	0	3	5,53	0,25
	1	4	5,28	0,61
PHFU1	0	3	6,00	0,87
	1	3	5,80	0,61
PHFU2	0	5	6,90	1,08
	1	5	6,20	0,76
OXU0	0	4	24,73	15,15
	1	4	33,55	9,93
OXU1	0	4	31,78	10,44
	1	4	29,68	9,08
OXU2	0	5	25,70	10,78
	1	5	25,30	13,05
URU0	0	4	501,75	210,60
	1	4	516,50	139,18
URU1	0	4	277,75	58,37
	1	4	416,25	127,78
URU2	0	5	330,60	203,03
	1	5	316,60	58,74

0 = Enrollment (no therapeutic or dietary regimen)

1 = End of observation period without cinacalcet

2 = End of observation period with cinacalcet

NS = Total number of urinary stones

SD = Diameter of larger urinary stone (cm)

CU = Calciuria 24h (mg/24h)

CU/CR = 24h Urinary calcium/creatinine 24h

PU = 24h Urinary phosphate (mg/24h)

P = Phosphorus (mg/dl)

C = Serum calcium (corrected for albumin in mg/dl)

PTH = Parathormone (pg/ml)

GFR = Glomerular filtration rate (ckd epi) ml/min/1,73 m<sup>2</sup>

MGU = Urinary magnesium (mg/24h)

DU = Diuresis 24 h (lt)

W = Body weight (kg)

CRU = 24h urinary creatinine (mg/24h)

URU = Urinary urate (mg/24h)

OXU = Urinary oxalate (mg/24h)

CITRU = Urinary citrate (mg/24h)

PHFU = Ph fasting urine

H = Height (cm)

CU/W = 24h urinary calcium (mg)/kg body weight

**Table 2.**  
Test for paired samples.

		Pair differences				f	df	Sig. (2-code)	
		Mean	Std. deviation	Std. error mean	Confidence interval (95%)				
					Lower				Upper
Pair 1	NS0 - NS1	-,2000	,9189	,2906	-,8574	,4574	-,688	9	,509
Pair 2	NS1 - NS2	,9000	,9944	,3145	,1886	1,6114	2,862	9	,019
Pair 3	NS2 - NS0	-,7000	,9487	,3000	-,13786	-,0214	-,2333	9	,045
Pair 4	SD0 - SD1	,0250	,2595	,0820	-,1606	,2106	,305	9	,768
Pair 5	SD1 - SD2	,3063	,1285	,0406	,2144	,3982	7,536	9	,000
Pair 6	SD2 - SD0	-,3313	,2520	,0797	-,5116	-,1510	-,4157	9	,002
Pair 7	CU0 - CU1	15,3750	73,0185	25,8159	-,45,6700	76,4200	,596	7	,570
Pair 8	CU1 - CU2	3,3750	153,5633	54,2928	-,125,0072	131,7572	,062	7	,952
Pair 9	CU2 - CU0	-,18,7500	144,3565	51,0377	-,139,4350	101,9350	-,367	7	,724
Pair 10	CU_CR0 - CU_CR1	,0134	,0812	,0287	-,0545	,0813	,468	7	,654
Pair 11	CU_CR1 - CU_CR2	-,0749	,1653	,0523	-,1931	,0434	-,1432	9	,186
Pair 12	CU_CR2 - CU_CR0	,0179	,0868	,0307	-,0547	,0904	,582	7	,579
Pair 13	PU0 - PU1	54,6250	164,8523	58,2841	-,83,1949	192,4449	,937	7	,380
Pair 14	PU1 - PU2	6,1250	218,3526	77,1993	-,176,4223	188,6723	,079	7	,939
Pair 15	PU2 - PU0	-,60,7500	226,0997	79,9383	-,249,7741	128,2741	-,760	7	,472
Pair 16	P0 - P1	-,1625	,2446	,0865	-,3670	,0420	-,1879	7	,102
Pair 17	P1 - P2	-,4622	,6568	,2189	-,9671	,0426	-,2,111	8	,068
Pair 18	P2 - P0	,8000	,4140	,1464	,4539	1,1461	5,465	7	,001
Pair 19	C0 - C1	-,2060	,3577	,1131	-,4618	,0498	-,1,821	9	,102
Pair 20	C1 - C2	1,2190	,6390	,2021	,7619	1,6761	6,033	9	,000
Pair 21	C2 - C0	-,1,0130	,5148	,1628	-,1,3813	-,6447	-,6,223	9	,000
Pair 22	PTH0 - PTH1	9,7800	21,1185	6,6783	-,5,3273	24,8873	1,464	9	,177
Pair 23	PTH1 - PTH2	57,6700	75,6697	23,9288	3,5392	111,8008	2,410	9	,039
Pair 24	PTH2 - PTH0	-,67,4500	72,2244	22,8394	-,119,1162	-,15,7838	-,2,953	9	,016
Pair 25	MGU0 - MGU1	6,8750	25,1250	8,8830	-,14,1301	27,8801	,774	7	,464
Pair 26	MGU1 - MGU2	-,22,5000	32,9285	11,6420	-,50,0289	5,0289	-,1,933	7	,095
Pair 27	MGU2 - MGU0	15,6250	44,8169	15,8452	-,21,8429	53,0929	,986	7	,357
Pair 28	GFR0 - GFR1	2,4400	4,3084	1,3624	-,6421	5,5221	1,791	9	,107
Pair 29	GFR1 - GFR2	1,4400	7,4146	2,3447	-,3,8641	6,7441	,614	9	,554
Pair 30	GFR2 - GFR0	-,3,8800	6,5118	2,0592	-,8,5383	,7783	-,1,884	9	,092
Pair 31	CRU0 - CRU1	105,0000	237,2461	83,8792	-,93,3427	303,3427	1,252	7	,251
Pair 32	CRU1 - CRU2	35,0000	126,9421	44,8808	-,71,1262	141,1262	,780	7	,461
Pair 33	CRU2 - CRU0	-,140,0000	216,6630	76,6019	-,321,1348	41,1348	-,1,828	7	,110
Pair 34	DU0 - DU1	-,4313	,6606	,2336	-,9835	,1210	-,1,846	7	,107
Pair 35	DU1 - DU2	-,1,063	,3489	,1234	-,3,979	,1854	-,861	7	,418
Pair 36	DU2 - DU0	,5375	,6932	,2451	-,0420	1,1170	2,193	7	,064
Pair 37	CU_W0 - CU_W1	,00236	1,23521	,46687	-,1,14001	1,14474	,005	6	,996
Pair 38	CU_W1 - CU_W2	-,1,3321	2,36384	,89345	-,2,31940	2,05298	-,1,149	6	,886
Pair 39	CU_W2 - CU_W0	,0745	1,8897	,6681	-,1,5054	1,6543	,111	7	,914
Pair 40	W0 - W1	1,2000	2,9101	,9203	-,8818	3,2818	1,304	9	,225
Pair 41	W1 - W2	-,6100	4,5945	1,4529	-,3,8967	2,6767	-,420	9	,684
Pair 42	W2 - W0	-,5900	6,5755	2,0793	-,5,2938	4,1138	-,284	9	,783
Pair 43	CITRU0 - CITRU1	39,8750	245,8056	86,9054	-,165,6237	245,3737	,459	7	,660
Pair 44	CITRU1 - CITRU2	25,2500	217,1199	76,7635	-,156,2668	206,7668	,329	7	,752
Pair 45	CITRU2 - CITRU0	-,65,1250	189,4228	66,9711	-,223,4864	93,2364	-,972	7	,363
Pair 46	PHFU0 - PHFU1	-,4783	,6630	,2707	-,1,1741	,2175	-,1,767	5	,137
Pair 47	PHFU1 - PHFU2	-,2667	,5354	,2186	-,8285	,2952	-,1,220	5	,277
Pair 48	PHFU2 - PHFU0	,8243	,8261	,3122	,0603	1,5883	2,640	6	,039
Pair 49	OXU0 - OXU1	-,1,5875	7,9220	2,8009	-,8,2105	5,0355	-,567	7	,589
Pair 50	OXU1 - OXU2	3,8625	9,1919	3,2498	-,3,8221	11,5471	1,189	7	,273
Pair 51	OXU2 - OXU0	-,2,2750	10,4215	3,6846	-,10,9876	6,4376	-,617	7	,556
Pair 52	URU0 - URU1	162,1250	159,3804	56,3495	28,8796	295,3704	2,877	7	,024
Pair 53	URU1 - URU2	20,6250	172,2423	60,8968	-,123,3732	164,6232	,339	7	,745
Pair 54	URU2 - URU0	-,182,7500	191,8241	67,8201	-,343,1190	-,22,3810	-,2,695	7	,031

**Table 3.**  
Student's t test for normocalcemic  
and hypercalcemic hyperparathyroidism.

	P-value	Means difference
NS0	,486	-1,250
NS1	,605	-,9167
NS2	,307	-2,0000
SD0	,956	,0083
SD1	,898	-,0333
SD2	,822	,0603
CU0	,206	-285,0000
CU1	,076	-354,1667
CU2	,882	-16,0000
CU_CR0	,138	-,1659
CU_CR1	,638	-,0460
CU_CR2	,484	-,0685
PU0	,751	60,8333
PU1	,607	-78,0000
PU2	,767	48,8333
P0	,005	1,1667
P1	,010	1,2267
P2	,025	,8700
C0	,000	-1,6500
C1	,000	-1,7650
C2	,017	-,8800
PTH0	,042	-91,1500
PTH1	,011	-108,0333
PTH2	,847	-5,2750
MGU0	,526	-28,1667
MGU1	,348	-37,3333
MGU2	,313	31,0000
GFR0	,577	9,4667
GFR1	,605	8,3583
GFR2	,392	14,0000
CRU0	,697	138,3333
CRU1	,715	-141,6667
CRU2	,611	156,6667
DU0	,624	-,3417
DU1	,217	-,9000
DU2	,908	-,0583
CU_W0	,246	-3,2579
CU_W1	,074	-4,50990
CU_W2	,859	-,3102
W0	,199	12,1250
W1	,170	12,4167
W2	,167	14,2667
CITRU0	,333	303,5000
CITRU1	,489	213,6667
CITRU2	,077	306,4167
PHFU0	,984	-,0117
PHFU1	,482	,6000
PHFU2	,245	-,7500
OXU0	,628	-5,6167
OXU1	,456	-6,1000
OXU2	,293	-8,0833
URU0	,435	115,5000
URU1	,365	-94,6667
URU2	,570	56,0000