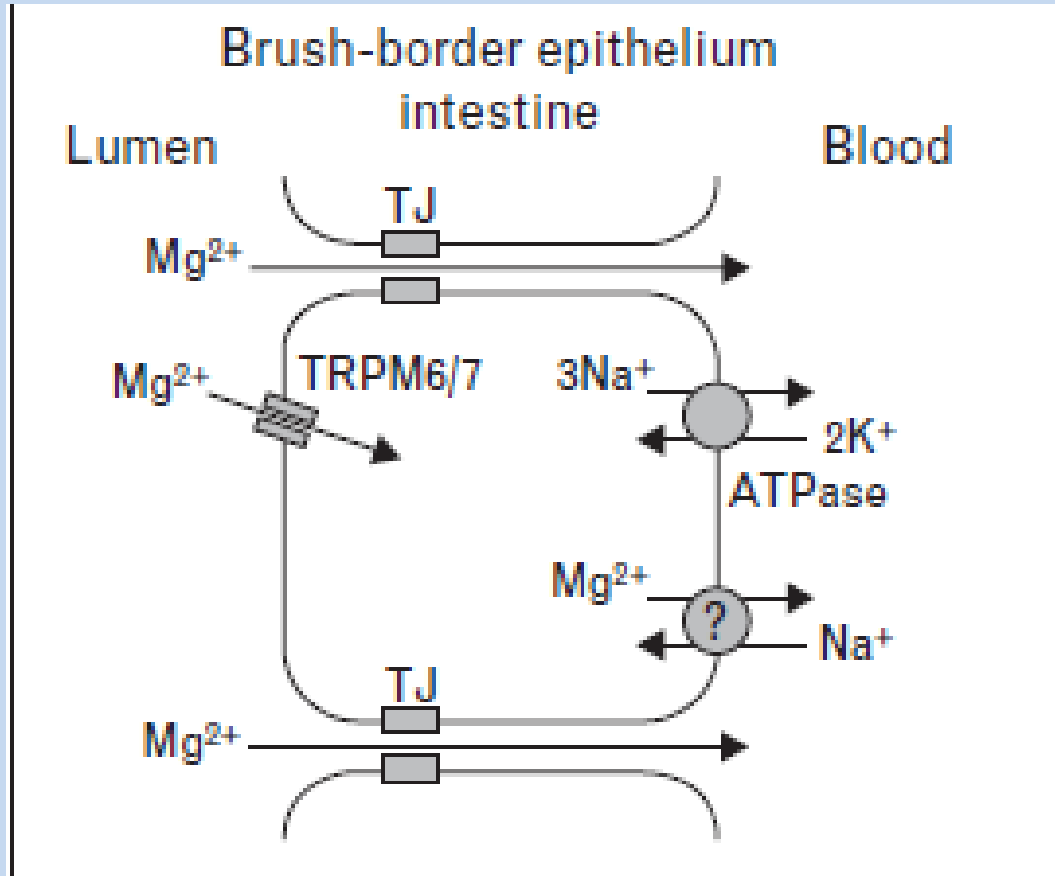


1

Table 1. Causes of hypocalcemia.

Low PTH levels (hypoparathyroidism)	High PTH levels (secondary hyperparathyroidism)
<i>Parathyroid Destruction</i> - Surgery - Auto-immune (isolated or polyglandular) - Cervical irradiation - Infiltration by metastasis or systemic diseases (Sarcoidosis, amyloidosis, hemochromatosis, Wilson's disease, thalassemia)	<i>PTH resistance</i> - Pseudohypoparathyroidism - Hypomagnesemia
<i>Reduced parathyroid function</i> - Hypomagnesemia - PTH gene defects - Calcium sensing receptor mutations	<i>Vitamin D deficiency</i> - Nutritional - Lack of sunlight - Malabsorption - Vitamin D dependent rickets - type I (lack of activity of 1α-hydroxylase) - type II (Vitamin D receptor resistance) - Chronic renal disease
<i>Parathyroid agenesis</i> - DiGeorge Syndrome - Isolated x-linked hypoparathyroidism - Kenny-Caffey syndrome - Mitochondrial neuropathies	<i>Drugs</i> - Bisphosphonates, cisplatin, ketoconazole, gallium nitrate, anticonvulsants <i>Hyperphosphatemia</i> - Renal insufficiency - Massive tumor lysis - Acute rhabdomyolysis <i>Acute pancreatitis</i> <i>Hungry bone</i> <i>Toxic shock syndrome</i> <i>Acute severe illness</i> <i>Calcium chelators (citrated blood transfusions, phosphate)</i>



ΟΔΗΓΙΕΣ

Διακοπή Nexium και επανέλεγχος μεταβολισμού ασβεστίου

	Αρχικά	3 μήνες μετά διακοπή Nexium	6 μήνες μετά διακοπή Nexium
Urea (mg/dl)	40	68	61
Creatinine (mg/dl)	0.8	0.9	0.9
Calcium (mg/dl)	8.2/7.4/7.2	9.2	9.5
Phosphate (mg/dl)	3.7/4.3/3.8	4.3	4.7
Magnesium (mg/dl)	0.5/0.4/0.5	2.3	1.9
Albumin (g/dl)	3.8/3.6/3.7	4.1	4.4
PTH (pg/ml)	12.1	35.9	47.1
25(OH)D (ng/ml)	32.1	50.2	51.7
Urine calcium (mg/24h)	Μη ανιχνεύσιμο	56.9	78,5

2

Χορήγηση rhPTH σε αντλία ινσουλίνης κατά ώσεις μιμούμενη τη φυσιολογική έκκριση παραθορμόνης σύμφωνα με:

CASE REPORT

Successful treatment of vitamin D unresponsive hypoparathyroidism with multipulse subcutaneous infusion of teriparatide

Manel Puig-Domingo, Gorzalo Diaz, Joanna Nicolau, Cristián Fernández, Sergio Rueda and Irene Halperin
Servei de Endocrinologia, Hospital Clínic, Universitat de Barcelona, 08036 Barcelona, Spain

(Correspondence should be addressed to M Puig-Domingo; Email: mpuigd@clinic.ub.es)

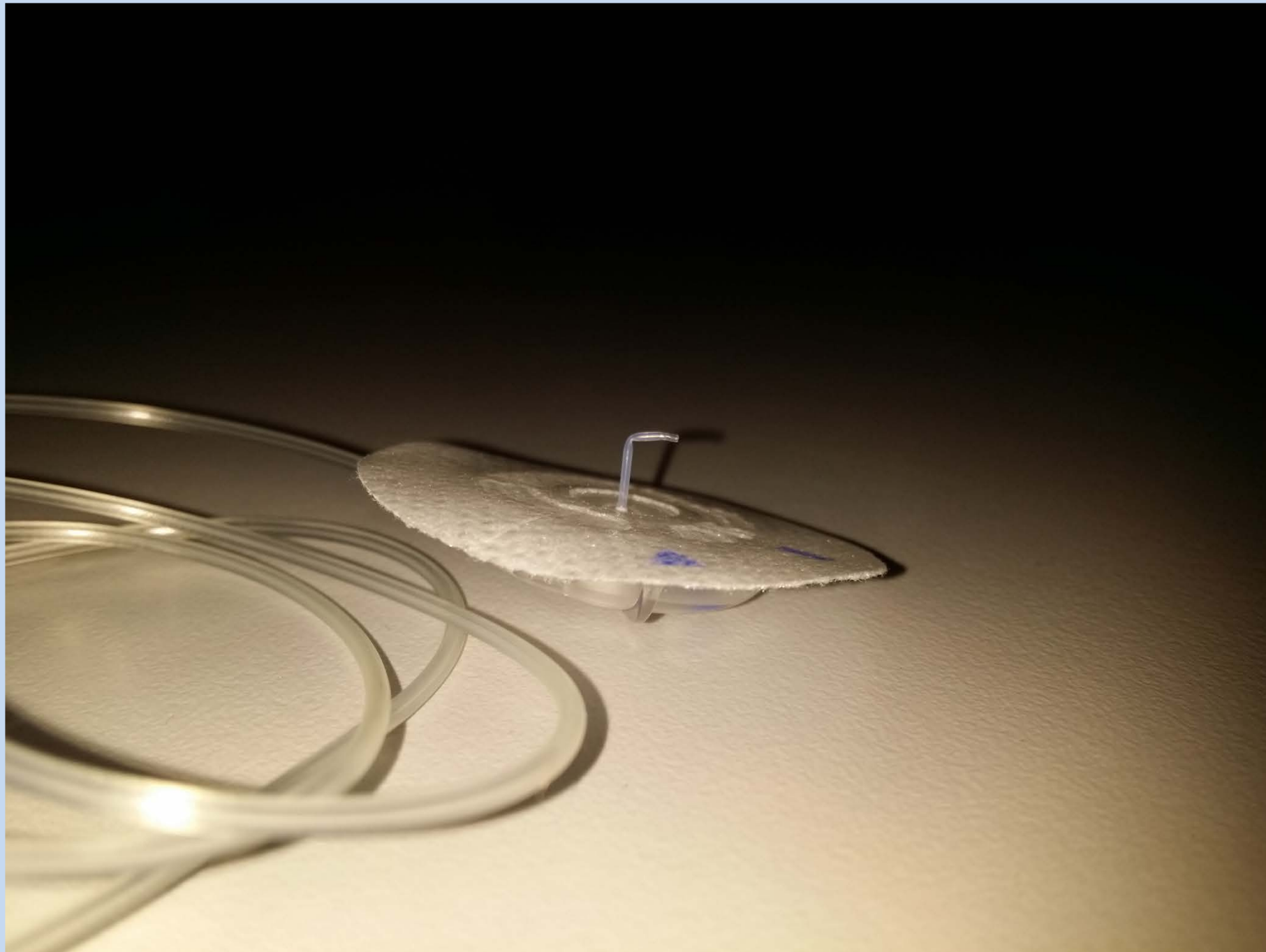
Synthetic Human Parathyroid Hormone 1-34 Replacement Therapy: A Randomized Crossover Trial Comparing Pump Versus Injections in the Treatment of Chronic Hypoparathyroidism

Karen K. Winer, Bo Zhang, Joseph A. Shrader, Donna Peterson, Michael Smith, Paul S. Albert, and Gordon B. Cutler, Jr.

The Eunice Kennedy Shriver National Institute of Child Health and Human Development, Bethesda, Maryland, 20892



	rhPTH (μg/24h)	Ca ⁺⁺ (mg/dl)	PO ₄ ³⁻ (mg/dl)	Mg ⁺⁺ (mg/dl)	Ca ούρων (mg/24h)	
7/7/2014, 08:00		9,25		1,75	42,42	Tb One Alpha 1μg, 2X3 tb Mega Calcium 1000 mg, 1X4
13:00	40	8,85				
18:00		8,65		1,95		
00:00		8,36		1.64		
8/7/2014 08:00		8,38		1,88	9,12	
14:00	60 (?)	8,82	3,8	1,93		
20:00		8,14	3,9	1,82		
00:00		7,77	4,26	1,88		
9/7/2014 08:00		7,56	4,6	1,96	10 amp γλυκονικού Ca	
14:00	80 (?)	7,51	4,19	1,93		
20:00		7,38	4,5	1,9		
00:00		6,9	4,8	1,91		
10/7/2014 08:00		8,08	4,88	1,98		
14:00		8,24	4,87			
20:00		8,18	5,35			
00:00		8,45	4,5			

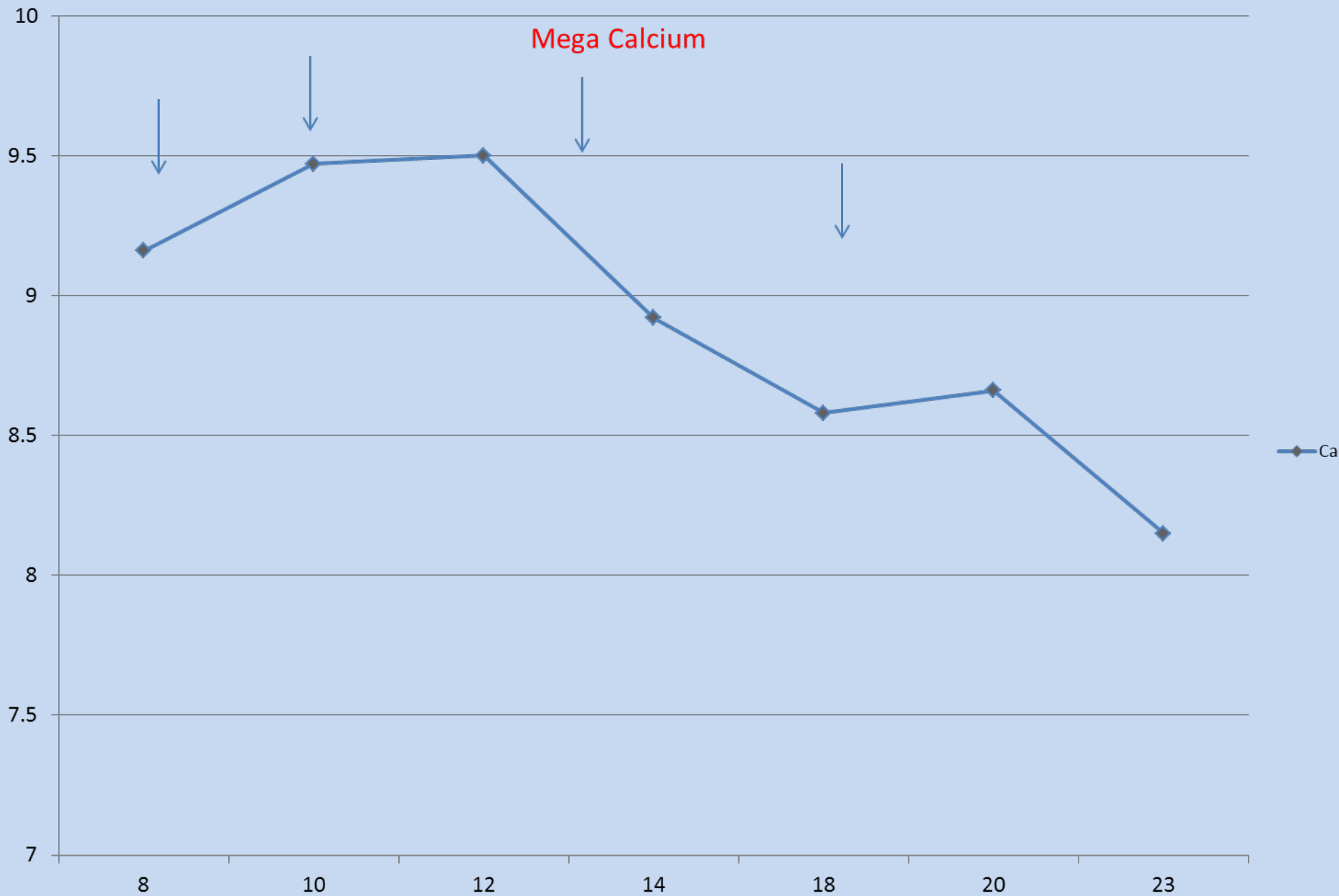


	rhPTH (μg/24h)	Ca ⁺⁺ (mg/dl)	PO ₄ ³⁻ (mg/dl)	Mg ⁺⁺ (mg/dl)	Ca ούρων (mg/24h)	
00:00	11/7/2014 8:00	8,45	4,5		59	Tb One Alpha 1μg, 2X3 tb Mega Calcium 1000 mg, 1X4
8:00		7,68	4,32			
14:00		80	8,45	3,51		
20:00	8,55		3,76			
00:00	9,06		3,9			
8:00	9,09		4,79	152		
14:00	10,01		4,37			
20:00	60	10,73	4,84			
00:00		10,85	5,14			
8:00		10,72	5,61	240		
14:00		11,07	5,64			
20:00	40	10,76	6,58			
00:00		10,55	5,46			
14/7/2014 8:00		10,65	5,31			
14:00		11,82	4,78			
20:00	stop	11,04	4,82			

		rhPTH (μg/24h)	Ca ⁺⁺ (mg/dl)	PO ₄ ³⁻ (mg/dl)	Mg ⁺⁺ (mg/dl)	Ca ούρων (mg/24h)	
7/7/2014, 08:00			9,25		1,75		
	13:00		8,85				
	18:00		8,65		1,95		
	00:00		8,36		1,64		
8/7/2014	08:00		8,38		1,88		
	14:00		8,82	3,8	1,93		
	20:00		8,14	3,9	1,82		
	00:00		7,77	4,26	1,88		
9/7/2014	08:00		7,56	4,6	1,96		
	14:00		7,51	4,19	1,93		
	20:00		7,38	4,5	1,9		
	00:00		6,9	4,8	1,91		
10/7/2014	8:00		8,08	4,88	1,98		
	14:00		8,24	4,87			
	20:00		8,18	5,35			
	00:00		8,45	4,5			
11/7/2014	8:00		7,68	4,32			
	14:00		8,45	3,51			
	20:00		8,55	3,76			
	00:00		9,06	3,9			
12/7/2014	8:00		9,09	4,79			
	14:00		10,01	4,37			
	20:00		10,73	4,84			
	00:00		10,85	5,14			
13/7/2014	8:00		10,72	5,61			
	14:00		11,07	5,64			
	20:00		10,76	6,58			
	00:00		10,55	5,46			
14/7/2014	8:00		10,65	5,31			
	14:00		11,82	4,78			
	20:00	stop	11,04	4,82			
	00:00		10,57	5,13			
15/7/2014	8:00		10,65				
	14:00		10,32				
	20:00		10,93				
16/7/2014,	8:00		10,56				
	18:00		11,06	5,72			
17/7/2014	8:00		9,78	4,72			
	13:00		10,33	4,72			
	16:00		10,43	5,75			
	18:00		10,63	5,55			
	20:00		10,35	5,66			
	22:00		10,65	5,37			
	00:00		9,99	5,7			
18/7/2014,	8:00		9,18				

Ca

Mega Calcium



Ca

Mega Calcium 1000 mg,
1X3

