

## PRELIMINARY EXPERIMENTS:

### Single EMOST treatment effect on electrocardiogram and the serum concentration of urea, albumin, cortisol, chloride, CPK, TSH, and CRP



We performed some preliminary experiments on twelve members of our BioLabor regarding the effectiveness of single EMOST treatment on some serum parameters and electrocardiogram (ECG). ECG results did not show statistic significant improvement after single EMOST treatment. In contrast, some serum factor such as uric acid, albumin, cortisol, chloride, Creatine phosphokinase (CPK), Thyroid stimulating hormone (TSH), C-reactive protein (CRP) indicated some remarkable changes following one treatment.

Cortisol, TSH, CRP, and CPK serum concentrations were reduced in the most of us. The albumin concentration usually showed a slight decrease and the uric acid concentration increased in almost all cases. Chloride level of serum showed a slight increase in almost every case. Of course, these few preface experiments have no great importance, but indicate EMOST treatment may reduce stress factors and affect on the redox/free radical processes as numerous studies reported regarding to the effect of low-frequency and intensity electromagnetic fields.

For example, cortisol levels were decreased in most of the members of our BioLabor after one EMOST treatment. Cortisol is a (glucocorticoid) steroid hormone that produced by the adrenal cortex in response to stress (Inslicht et al., 2011). Its major functions are, among them, to increase blood sugar through gluconeogenesis and suppress the immune system, but recent studies revealed that glucocorticoids (cortisol) have both stimulatory and suppressive effects on immune responses that are dependent on the GC concentration (Yeager et al., 2008).

Uric acid concentration increased in almost all cases after single EMOST treatment. However, uric acid is strong reducing agents (electron donors) and potent antioxidants (Warning, 2002). In humans, about the half the antioxidant ability of blood plasma comes from uric acid (Maxwell et al., 1997).

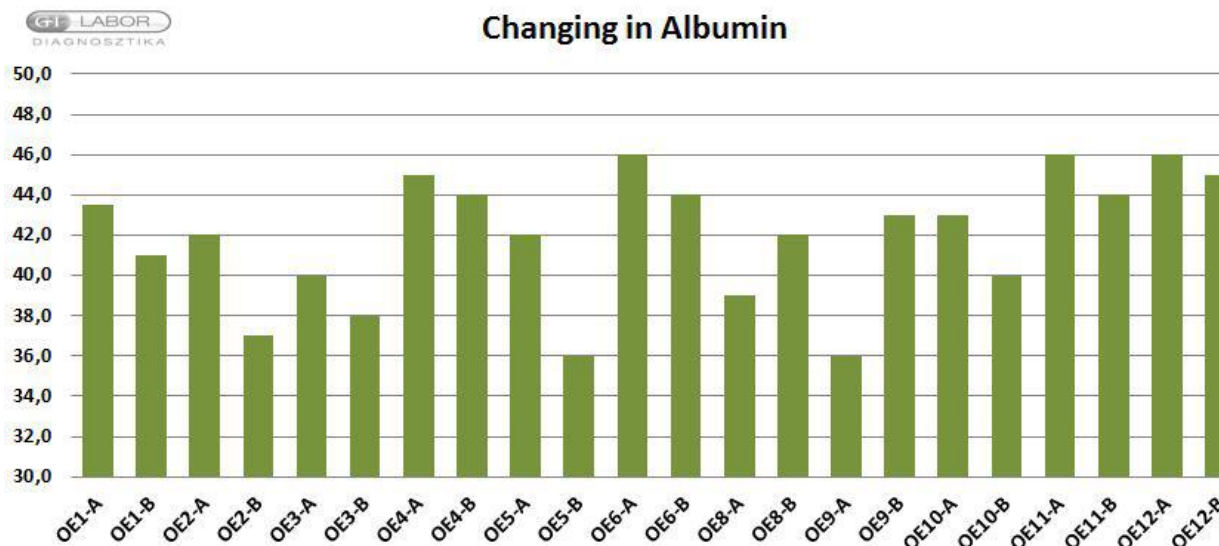
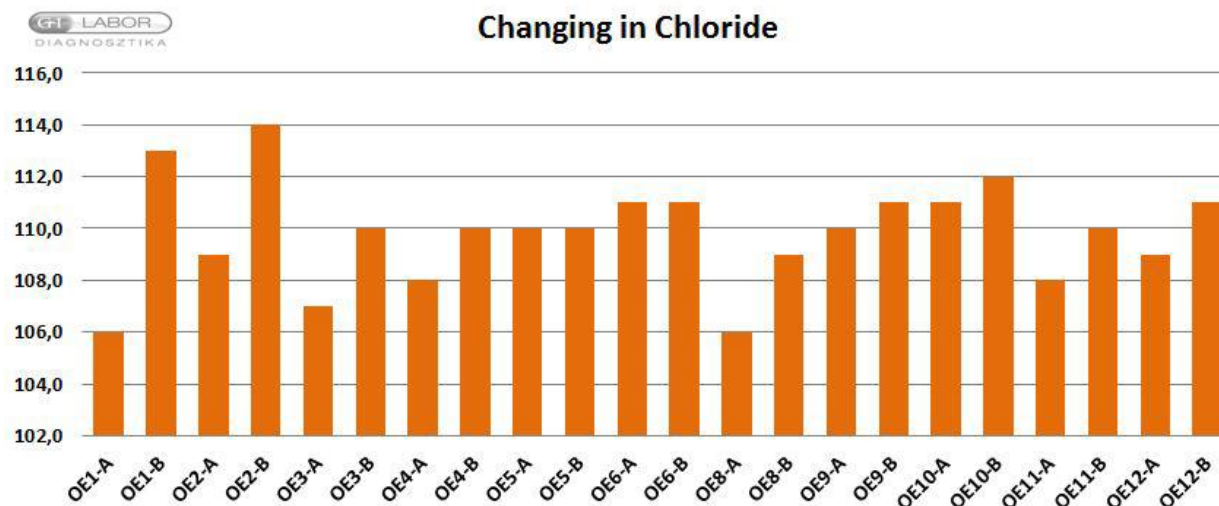
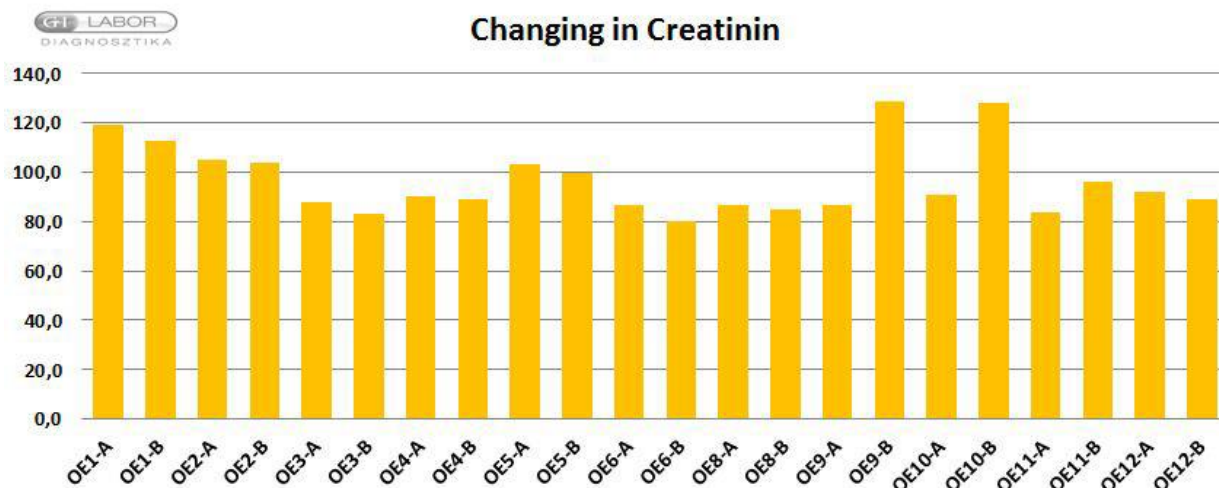
Chloride level also showed a slight increase in almost every case. Chloride is a prominent negatively charged ion in the blood, where it represents about 70% of the body's total negative ion content. However, chloride level has essential role of blood pH value that can influence pH-dependent redox/free radical processes. It seems that EMOST treatments may transiently potentiate functional redox processes.

However, we have started a large-scale, controlled testing of EMOST treatments (with forty subjects and with sham exposed controls) regarding its effectiveness on serum parameters and electrocardiogram. We hope that we can report the results in the near future.

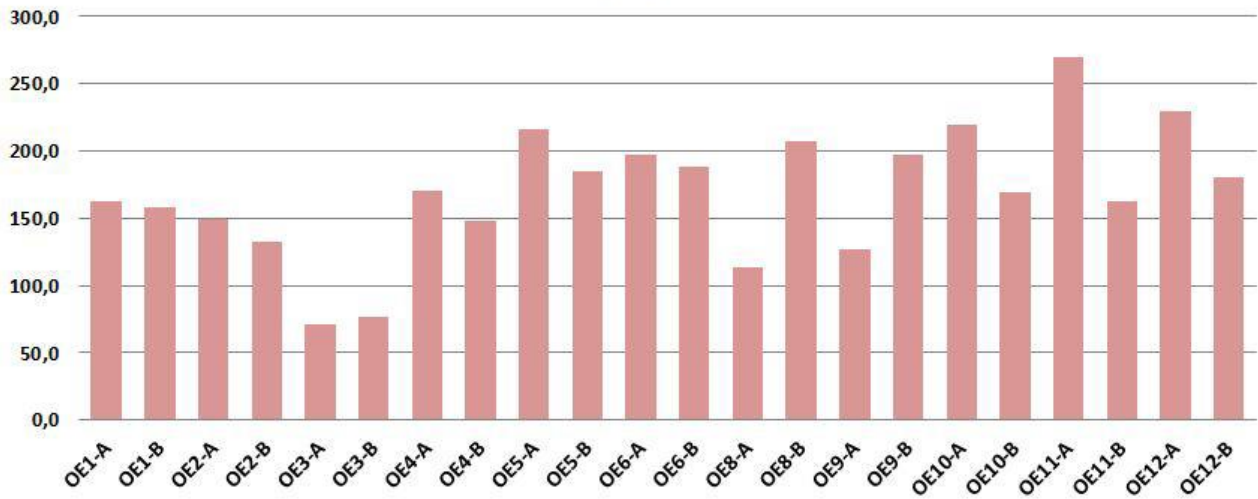
Results: A=Before treatment, B=After treatment

Controll group: OE11, OE12

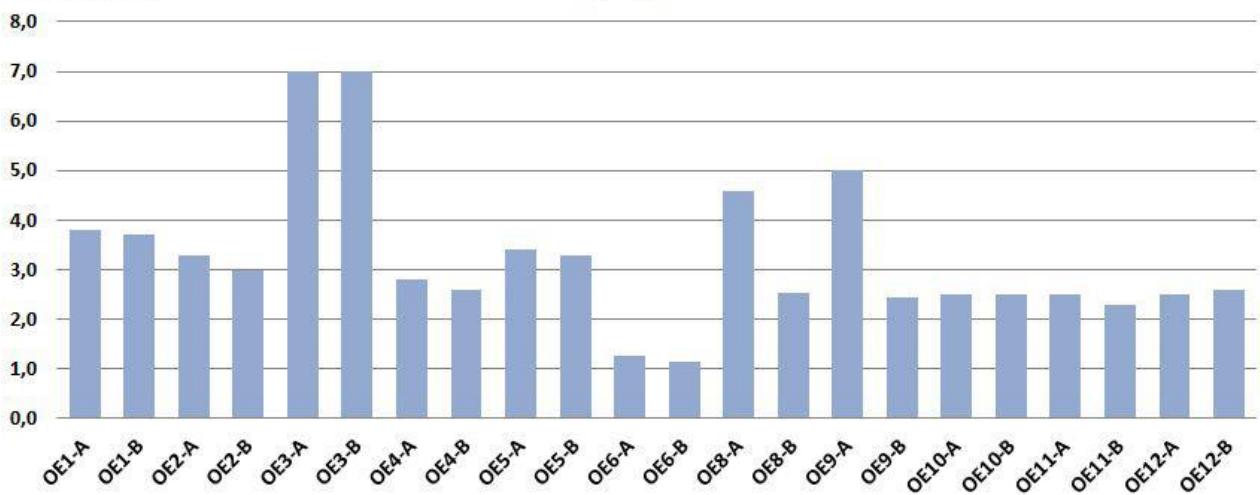
		OE1-A	OE1-B	OE2-A	OE2-B	OE3-A	OE3-B	OE4-A	OE4-B	OE5-A	OE5-B	OE6-A	OE6-B	OE8-A	OE8-B	OE9-A	OE9-B	OE10-A	OE10-B	OE11-A	OE11-B	OE12-A	OE12-B
mmol/l	Chlor	106,0	113,0	109,0	114,0	107,0	110,0	108,0	110,0	110,0	110,0	111,0	111,0	106,0	109,0	110,0	111,0	111,0	112,0	108,0	110,0	109,0	111,0
g/l	Albumin	43,5	41,0	42,0	37,0	40,0	38,0	45,0	44,0	42,0	36,0	46,0	44,0	39,0	42,0	36,0	43,0	43,0	40,0	46,0	44,0	46,0	45,0
U/L	CK	163,0	158,0	149,0	133,0	71,0	77,0	170,0	148,0	216,0	185,0	197,0	188,0	114,0	207,0	127,0	197,0	219,0	169,0	270,0	163,0	230,0	180,0
mg/l	CRP	3,8	3,7	3,3	3,0	7,0	7,0	2,8	2,6	3,4	3,3	1,3	1,2	4,6	2,5	5,0	2,4	2,5	2,5	2,5	2,3	2,5	2,6
umol/l	Uric acid	434,0	446,0	296,0	285,0	239,0	238,0	156,0	164,0	246,0	246,0	253,0	256,0	309,0	503,0	305,0	364,0	210,0	323,0	228,0	350,0	439,0	357,0
mIU/l	TSH	3,6	2,6	1,4	1,1	2,0	1,6	2,2	1,9	2,2	1,9	1,9	2,0	6,3	6,1	8,6	8,1	1,3	0,9	1,5	1,2	2,4	2,2
nmol/l	Cortisol	381,0	276,0	221,0	141,0	123,0	128,0	215,0	159,0	164,0	120,0	170,0	182,0	333,0	261,0	293,0	208,0	628,0	271,0	215,0	319,0	295,0	316,0



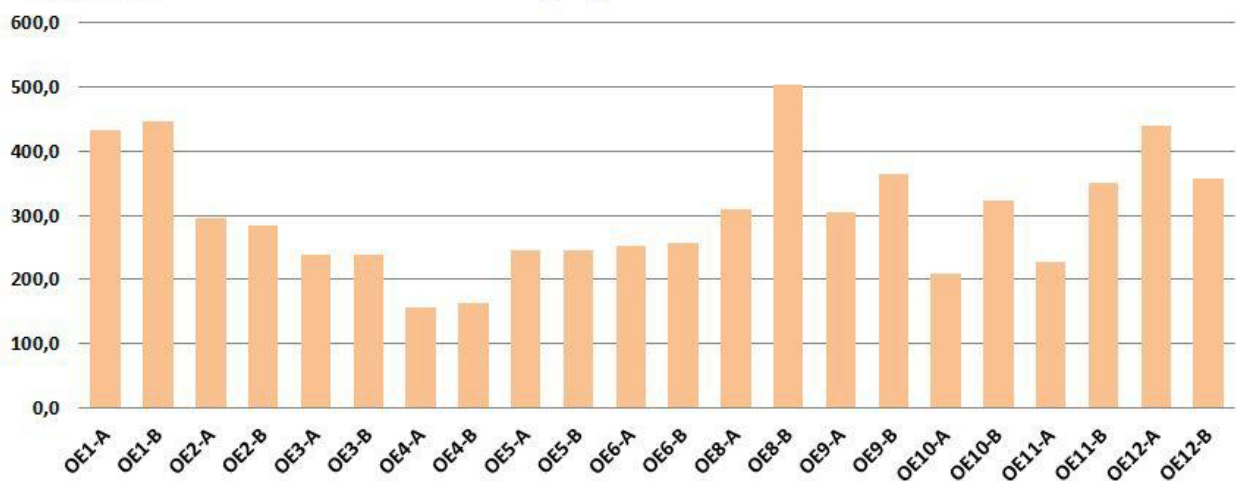
### Changing in CK



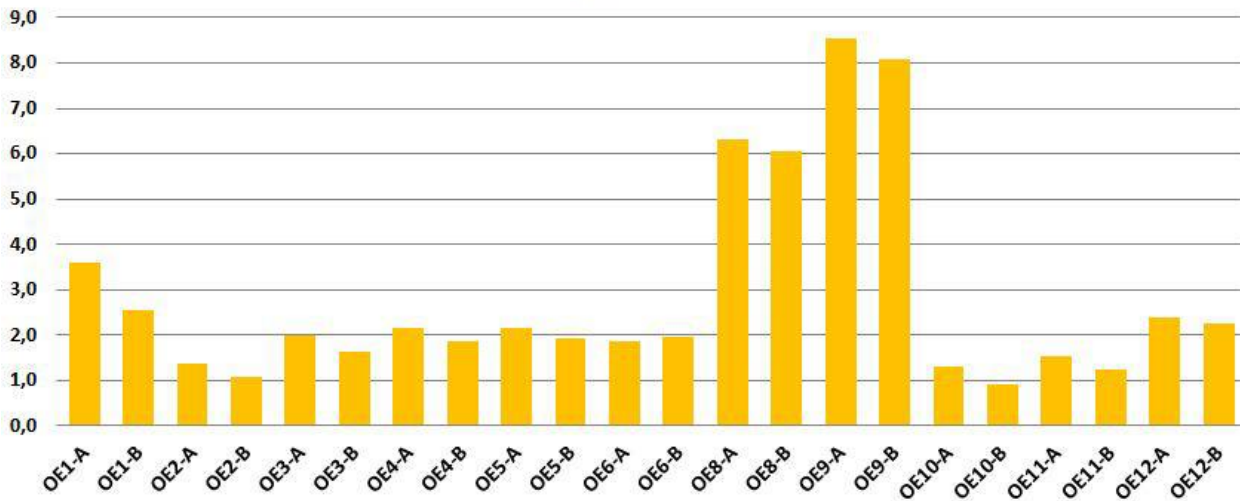
### Changing in CRP



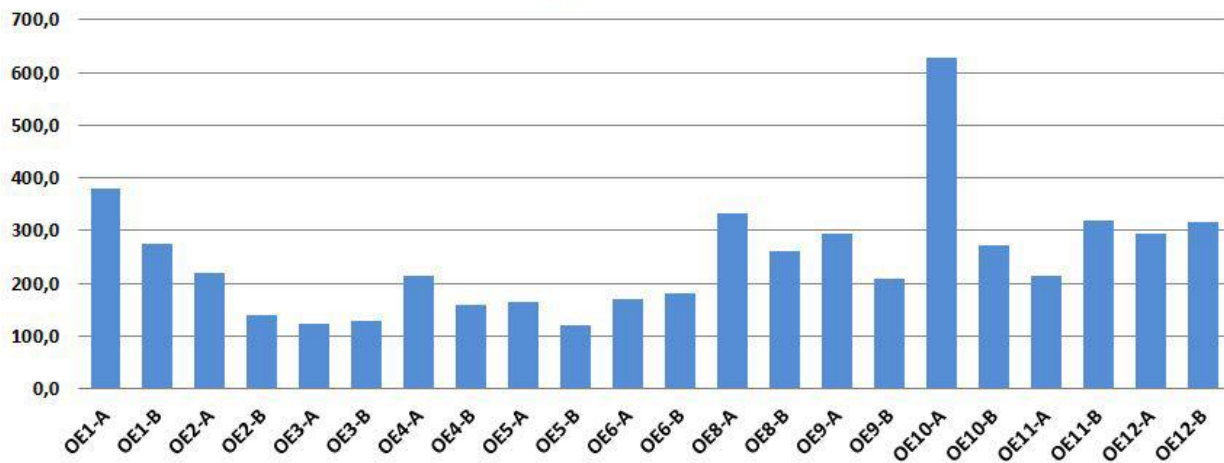
### Changing in Uric Acid



### Changing in TSH



### Changing in Cortisol



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Sci-Med. Attila Till MD.

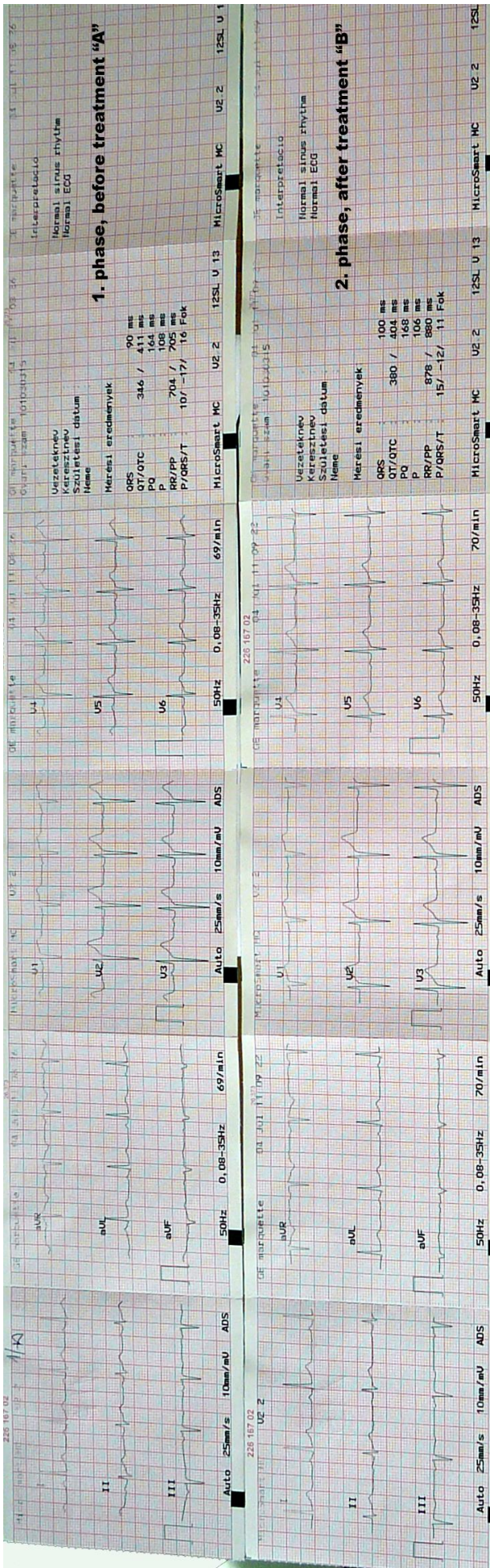
Éva Dr. Szigeti MD., cardiologist

Ivanov. A. B. MD., PhD., academist

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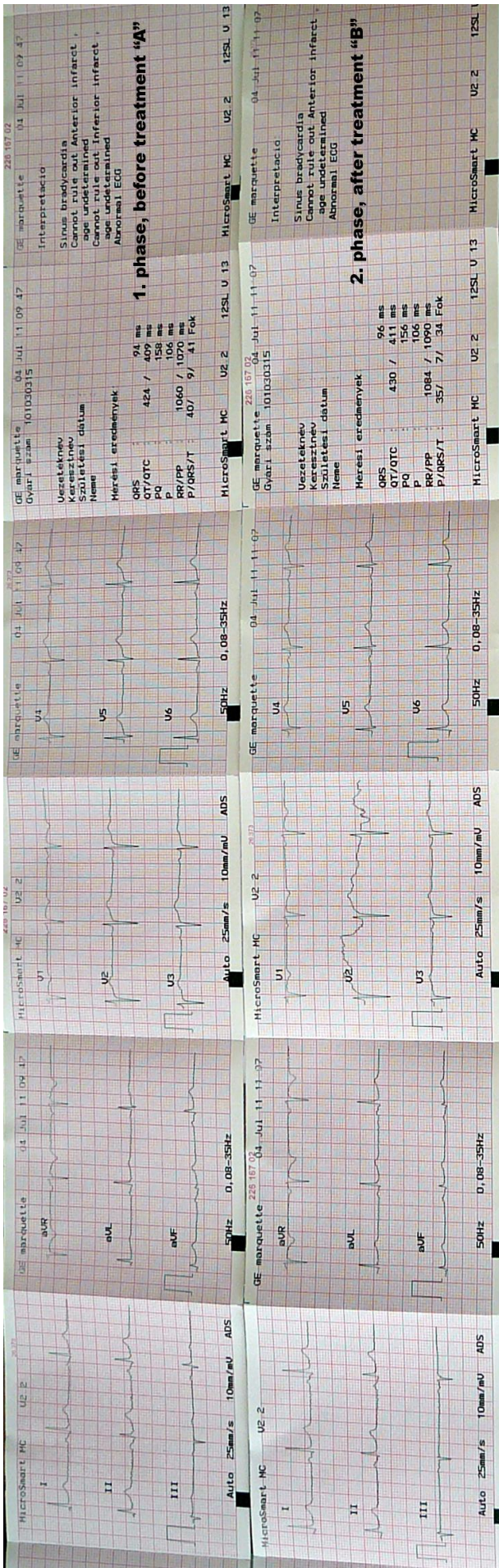




Vizsgálat neve	OE1-A	OE1-B	Mérték, egység
Totálbilirubin	12,7	6,9	umol/l
Kreatinin	119	113	umol/l
Klor	106	113	mmol/l
Totalprotein	70	65	g/l
Albumin	43,5	41,0	g/l
CK	163	158	U/L
CRP	3,8	3,7	mg/l
Hügsav	434	446	umol/l
Cholesterin	4,8	4,9	mmol/l
Triglycerid	7,38	7,12	mmol/l
HDL-cho.	0,93	0,82	mmol/l
LDL-cho.	3,36	3,24	mmol/l
TSH	3,61	2,56	mIU/l
Kortizol	381,0	276	nmol/l

Direct tests of  
EMOST Device  
2011

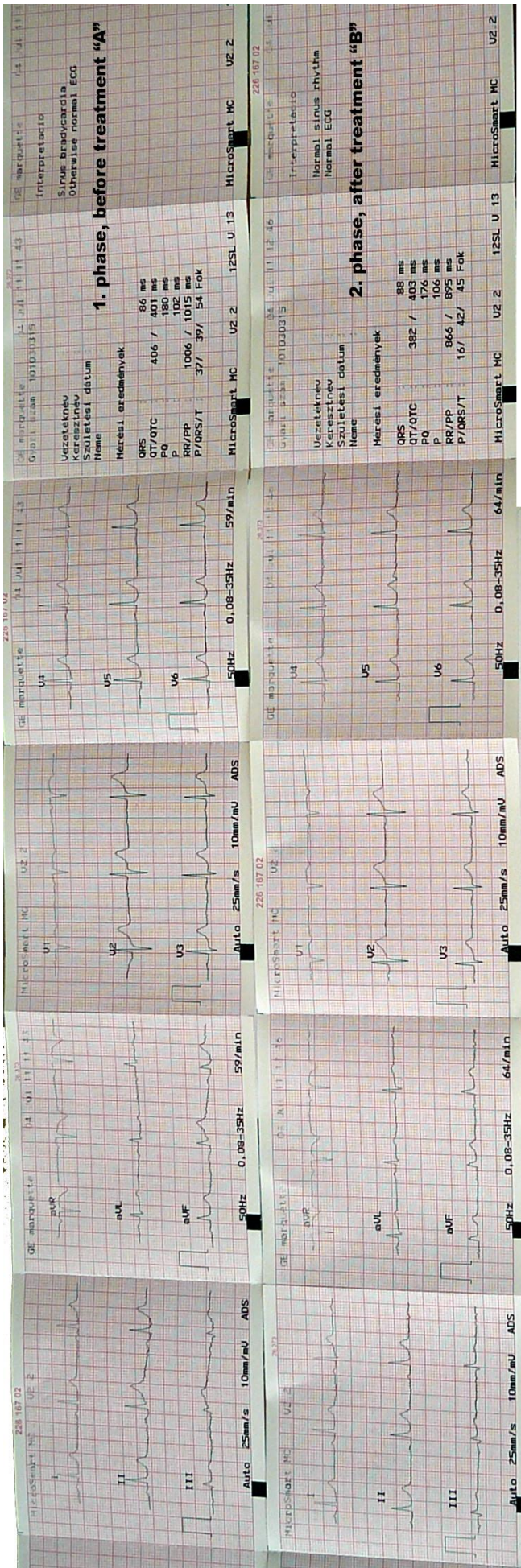




Vizsgalat neve	OE2-A	OE2-B	Merték egyseg
Totálbilirubin	9,7	9,2	umol/l
Kreatinin	105	104	umol/l
Klor	109	114	mmol/l
Totalprotein	60	56	g/l
Albumin	42,0	37,0	g/l
CK	149	133	U/L
CRP	3,3	3,0	mg/l
Huvsav	296	285	umol/l
Cholesterol	4,4	4,1	mmol/l
Triglicerid	2,41	1,47	mmol/l
HDL-chole.	1,29	1,27	mmol/l
LDL-chole.	3,06	2,90	mmol/l
TSH	1,37	1,08	mIU/l
Kortizol	221	141	nmol/l

Direct tests of EMOST Device 2011





Vizsgalat neve	OE3-A	OE3-B	Mertek egyseg
Totalbilirubin	4,1	7,1	umol/l
Kreatinin	88	83	umol/l
Klor	107	110	mmol/l
Totalprotein	61	60	g/l
Albumin	40,0	38,0	g/l
CK	71	77	U/L
CRP	7,0	7,0	mg/l
Hugysav	239	238	umol/l
Cholesterin	6,3	5,8	mmol/l
Triglicerid	2,2	1,99	mmol/l
HDL-choL	1,41	1,44	mmol/l
LDL-choL	4,65	4,44	mmol/l
TSH	2,0	1,63	mIU/l
Kortizol	123	128	nmol/l



Direct tests of  
EMOST Device  
2011

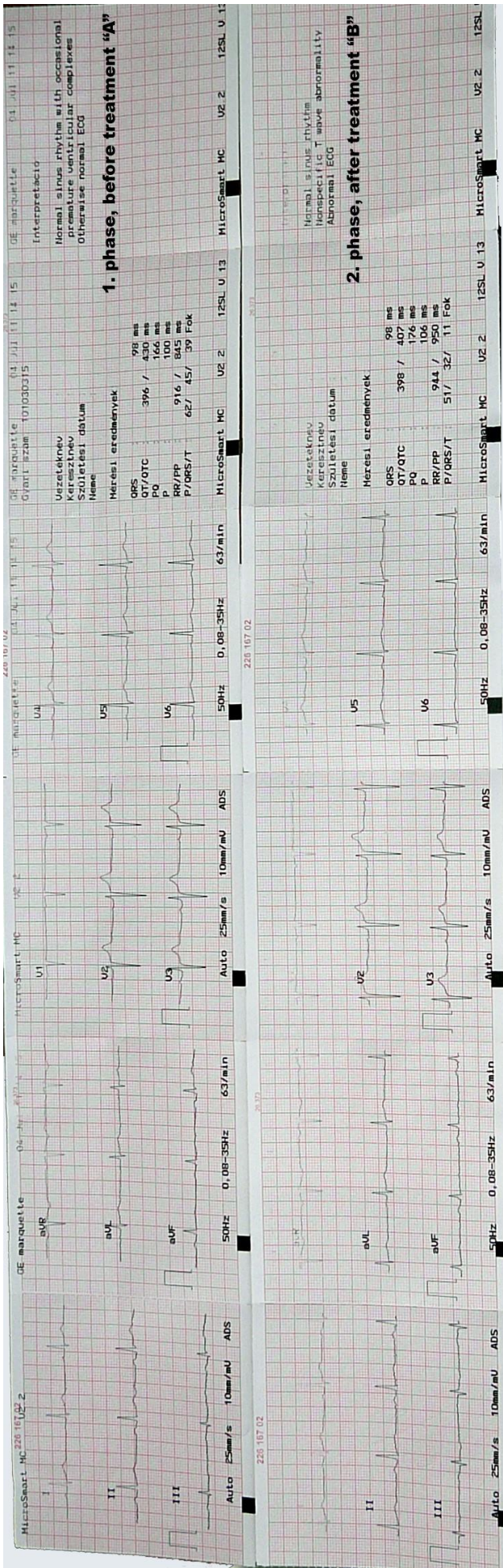




Vizsgálat neve	OE4-A	OE4-B	Mérték egység
Totálbilirubin	9,3	9,0	umol/l
Kreatinin	90	89	umol/l
Klor	108	110	mmol/l
Totalprotein	74	75	g/l
Albumin	45,0	44,0	g/l
CK	170	148	U/L
CRP	2,8	2,6	mg/l
Húgsav	156	164	umol/l
Cholesterin	5,2	5,3	mmol/l
Triglicerid	0,74	0,68	mmol/l
HDL-cho.	2,32	2,5	mmol/l
LDL-cho.	3,12	3,13	mmol/l
TSH	2,15	1,87	mIU/l
Kortizol	215	159	nmol/l

Direct tests of EMOST Device 2011

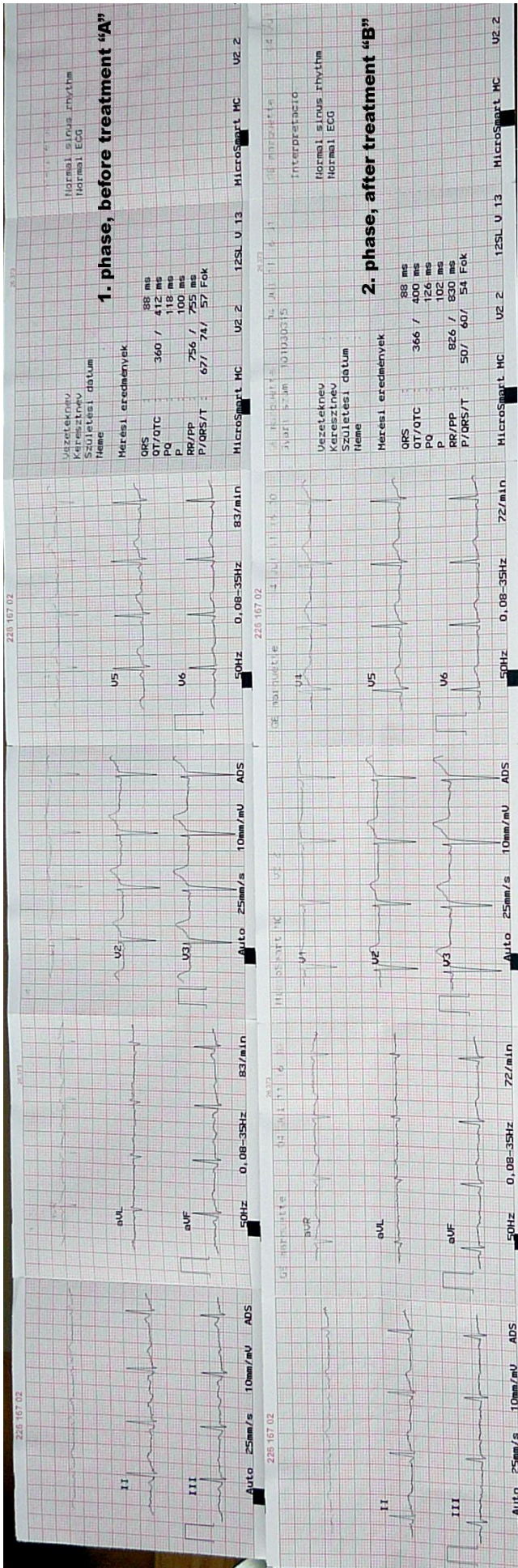




Vizsgálat neve	OF5-A	OF5-B	Mérték egység
Totalbilirubin	5,9	8,1	mmol/l
Kreatinin	103	100	mmol/l
Klor	110	110	mmol/l
Totalprotein	63	59	g/l
Albumin	42,0	36,0	g/l
CK	216	185	U/L
CRP	3,4	3,3	ng/l
Glucose	246	246	mmol/l
Cholesterol	4,6	4,3	mmol/l
Triglycerid	1,96	1,24	mmol/l
HDL-cho	1,24	1,11	mmol/l
LDL-cho	3,54	3,33	mmol/l
TSH	2,16	1,94	mU/l
Kortizol	164	120	nmol/l

Direct tests of  
EMOST Device  
2011

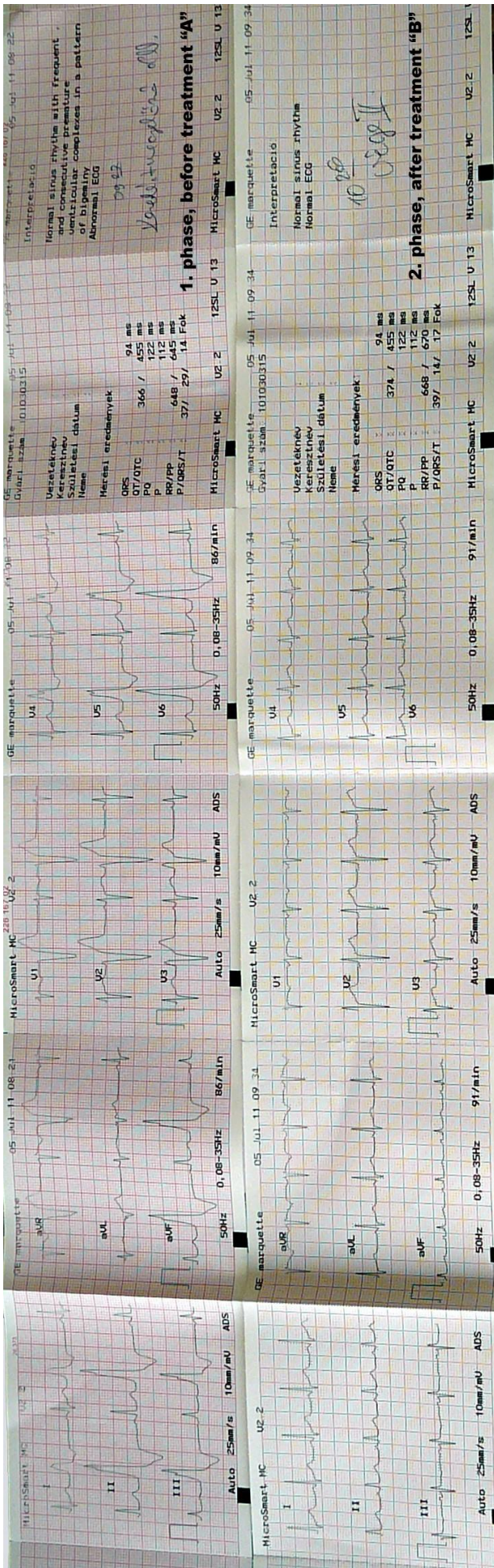




Vizsgálat neve	OF6-A	OF6-B	Mérték egység
Totálbilirubin	16,4	15,0	umol/l
Kreatinin	87	80	umol/l
Klor	111	111	mmol/l
Totalprotein	66	64	g/l
Albumin	46,0	44,0	g/l
CK	197	188	U/L
CRP	1,27	1,16	mg/l
Húgysav	253	256	umol/l
Cholesterin	5,5	5,7	mmol/l
Triglycerid	0,98	1,03	mmol/l
HDL-chole	1,32	1,32	mmol/l
LDL-chole	4,3	4,52	mmol/l
TSH	1,85	1,95	mIU/l
Kortizol	170	182	nmol/l

Direct tests of  
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 2011





**OE VII/A**

EKG: 86/min meredek tengelyállás rövid PQ több helyen delta hullám is azonosítható bigeminia, szabályos repol. Prae excitatio sdr. irányába obs javasolt, (Holter, electrofiziológiai kiv. jav.)

**OE VII/B**

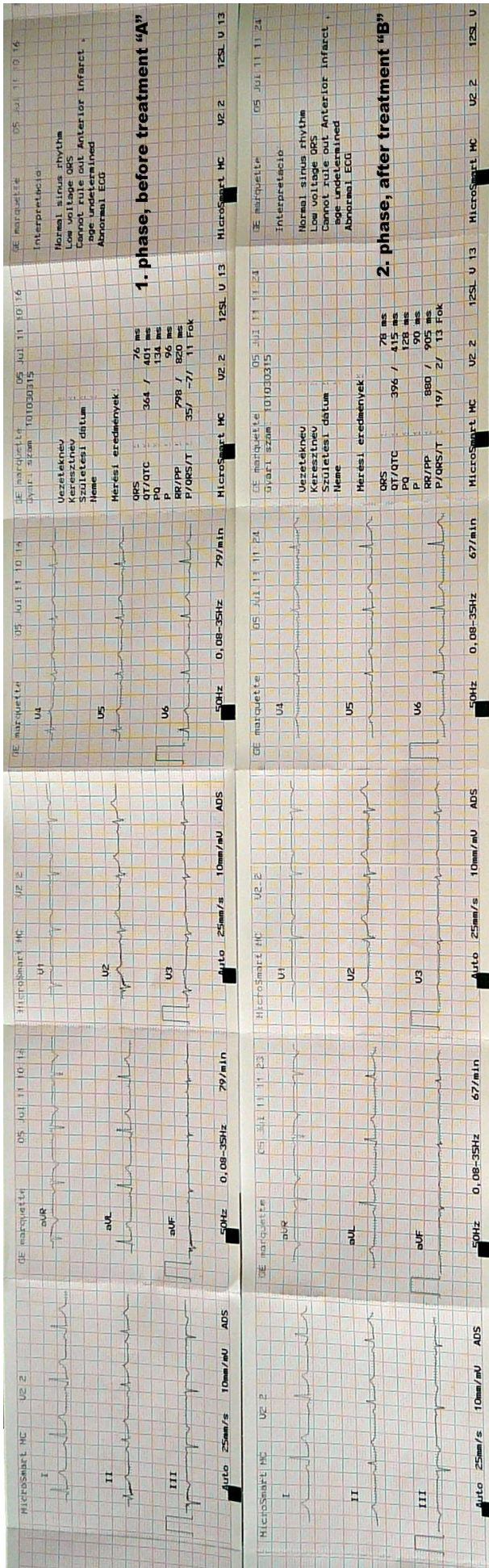
EKG: 91/min SR bal deviatio rövid PQ III-ban Q kamrai ectopia nem látható szabályos repol. (!)

without blood tests

Vizsgálat neve
Totalbilirubin
Kreatinin
Klor
Totalprotein
Albumin
CK
CRP
Húgsav
Cholesterin
Triglicerid
HDL-chof.
LDL-chof.
TSH
Kortizol

Direct tests of EMOST Device 2011

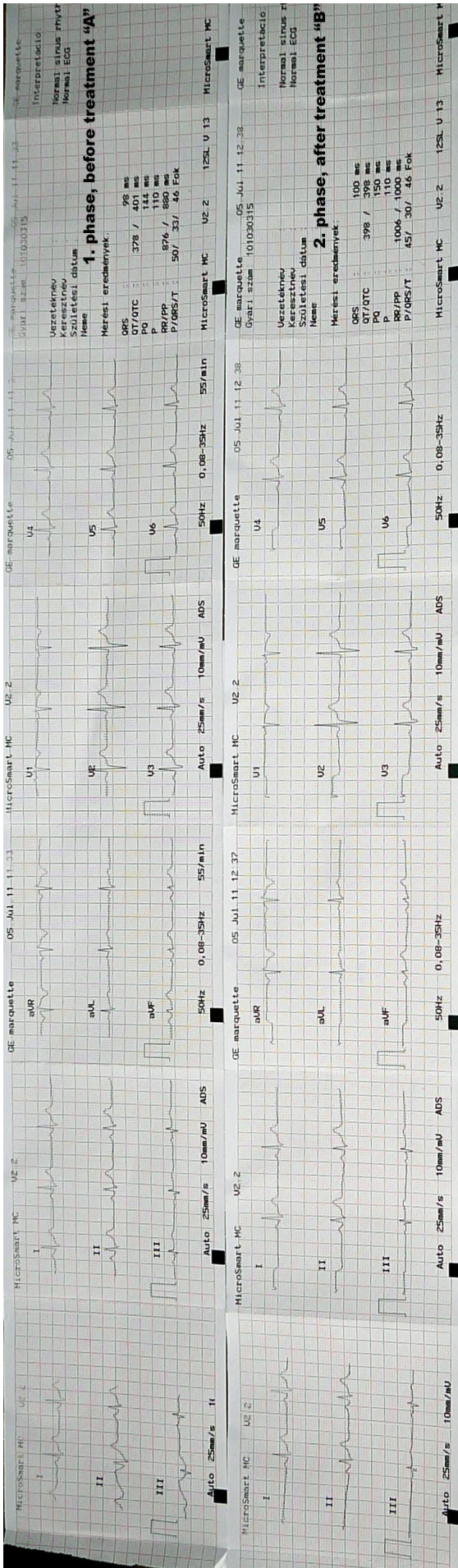




Vizsgálat neve	OE8-A	OE8-B	Mérték egység
Totalbilirubin	10,7	10,6	umol/l
Kreatinin	87	85	umol/l
Klor	106	109	mmol/l
Totalprotein	64	62	mmol/l
Alumínium	39,0	42,0	g/l
CK	11,4	207	U/L
CRP	4,6	2,52	mg/l
Húgysav	309	503	umol/l
Cholesterol	5,7	6,6	mmol/l
Triglycerid	3,85	3,49	mmol/l
HDL-cho.	1,39	1,57	mmol/l
LDL-cho.	4,08	4,8	mmol/l
TSH	6,3	6,05	mIU/l
Kortizol	333	2,61	nmol/l

Direct tests of  
 EMOST Device  
 2011

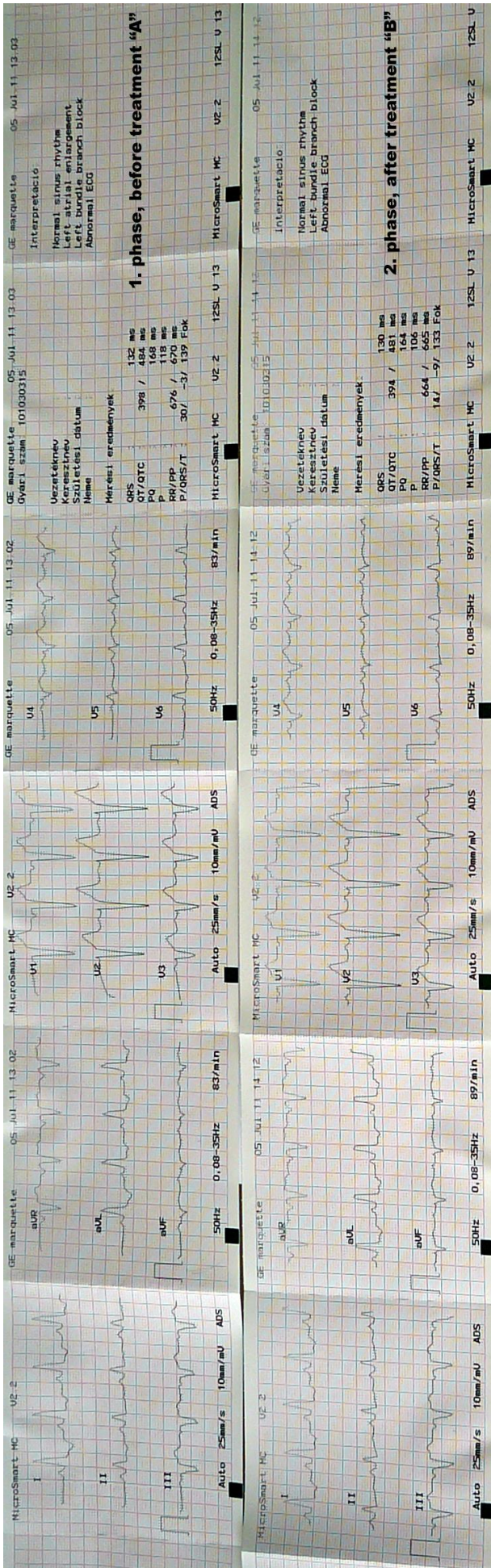




Vizsgálat neve	OE9-A	OE9-B	Mérték egység
Totalbilirubin	11,3	9,8	mmol/l
Kreatinin	87	129	mmol/l
Klor	110	111	mmol/l
Totalprotein	67	64	g/l
Albumin	36,0	43,0	g/l
CK	127	197	U/L
CRP	5,0	2,44	mg/l
Húgsav	305	364	mmol/l
Cholesterol	6,1	5,0	mmol/l
Triglicerid	3,72	2,50	mmol/l
HDL-cho	1,5	1,25	mmol/l
LDL-cho	4,2	3,5	mmol/l
TSH	8,55	8,08	mIU/l
Kortizol	293	208	nmol/l

Direct tests of  
EMOST Device  
2011

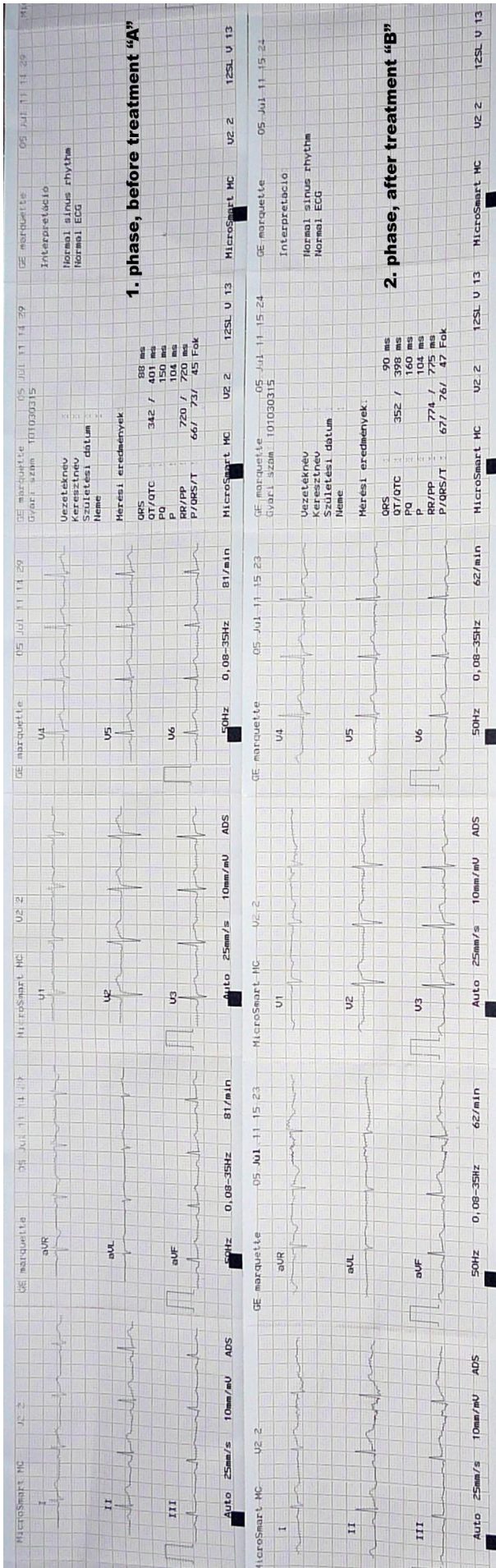




Vizsgálat neve	OE10-A	OE10-B	Mérték egység
Totalbilirubin	9,0	8,7	umol/l
Kreatinin	91	128	umol/l
Klor	111	112	mmol/l
Totalprotein	68	60	g/l
Albumin	43,0	40,0	g/l
CK	219	169	U/L
CRP	2,5	2,5	mg/l
Húgsav	210	323	umol/l
Cholesterol	4,8	4,7	mmol/l
Triglicerid	2,97	1,96	mmol/l
HDL-cho.	1,21	1,21	mmol/l
LDL-cho.	3,4	3,0	mmol/l
TSH	1,3	0,91	mIU/l
Kortizol	628 *	271	nmol/l

Direct tests of  
 EMOST Device  
 2011



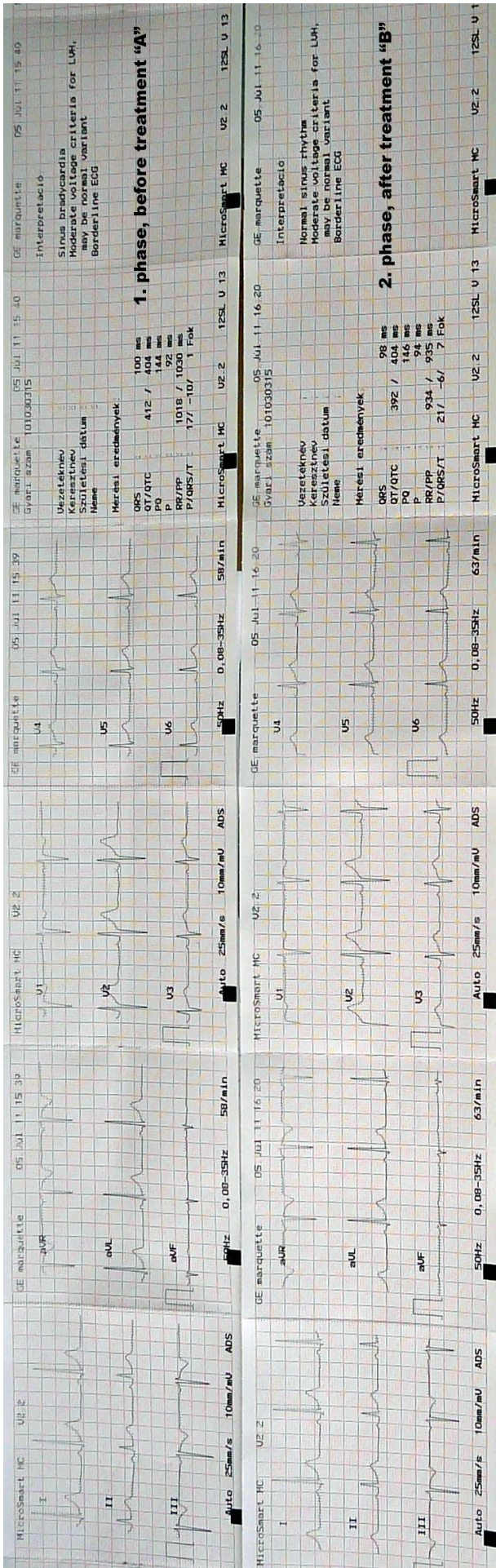


Kontroll személy,  
valós kezelés nélkül

Vizsgálat neve	OE11-A	OE11-B	Mérték egység
Totálbilirubin	7,3	19,8	umol/l
Kreatinin	84	96	umol/l
Klor	108	110	mmol/l
Totalprotein	70	66	g/l
Albumin	46,0	44,0	g/l
CK	270	163	U/l
CRP	2,5	2,3	mg/l
Húgsav	228	350	umol/l
Cholesterin	5,2	8,8	mmol/l
Triglicerid	2,24	4,74	mmol/l
HDL-cholesterol	1,3	1,33	mmol/l
LDL-cholesterol	3,7	6,2	mmol/l
TSH	1,54	1,23	mIU/l
Kortizol	215	319	nmol/l

Direct tests of  
EMOST Device  
2011





Kontroll személy,  
 valós kezelés nélkül

Vizsgálat neve	OE12-A	OE12-B	Mérték egység
Totálbilirubin	14,1	19,6	umol/l
Kreatinin	92	89	umol/l
Klor	109	111	mmol/l
Totalprotein	67	68	g/l
Albumin	46,0	45,0	g/l
CK	230	180	U/L
CRP	2,5	2,6	mg/l
Hugysav	439	357	umol/l
Cholesterol	7,1	9,3	mmol/l
Triglicerid	2,73	5,35	mmol/l
HDL-choi.	1,62	1,47	mmol/l
LDL-choi.	5,1	6,25	mmol/l
TSH	2,4	2,24	mIU/l
Kortizol	295	316	nmol/l

Direct tests of  
 EMOST-Device  
 2011