

Military research center of medicine  
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**I CONFIRM**  
**Scientific program manager ,**  
**Medecine docteur.**

**Dr Rasnikin S.M.**

Le 01. 05 2005.

### CLINICAL TESTS PROTOCOL

Patients with various pathologies underwent a rehabilitation cure in the military research center of medicine Marfino .

the therapeutic follow-up of these patients with was evaluated according to 2 processes:

#### 1 . Anamnesis and blood analysis ( venous and capillary)

The anamnesis retained the main risk and the associated risks

Blood assessment:

Total Cholesterol	LDH cholesterol	Atherogen quotient	Triglycerides	Glycaemia	Prothrombine
ASAT	Amylases	Gamma GT	Creatinin	Uric acid	Urea
Magnesaemia	Calcaemia	Protein	Hemoglobine	Leucocytes	Lymphocytes
Monocytes	Iron	Natraemia	Lean mass/ Fat mass	Kaliaemia	Total bilirubine

Assessment was carried out at the beginning of the treatment (07.07.2004) and at the end of the treatment (20.08.2004)

#### 2. ESG system assessment

the recordings have were carried out at the beginning of treatment, then at one week and at the end of the treatment.

This system included :

- Electronic box ,cables , mettalic electrodes for feet and hands and single use electrodes for the face
- The user manual
- European certificate CE 0459
- Health Ministry of Russian the certificate MS RF № 2003/990

We recorded 33 patients including 16 Men and 17 women La average age being 41 years

## DDFAO/ ESG presentation

ESG System enables:

- Acid base balance (intercellular pH)
- Interstitial gases (PiO<sub>2</sub>, PiO<sub>2</sub>, and SiO<sub>2</sub>)
- Interstitial ionogramme
- Interstitial hormonal assessment
- Interstitial biochemical constants
- ElectroScanGram (ESG): the graphs obtained could be interpreted to the clinical tests carried out at the Botkin hospital (Moscow) which showed their specificity and their Sensitivity of 23 pathology diagnosed by conventional methods.

Thus, it positions like a biosensor system of psychopathological functional investigation with analysis program of the results giving the main risk and associated risk

### *Technical characteristic:*

Functioning Speed (per second)	50 000
Tension of the electrodes, in operating mode	1,28 V
Speed transmission	12 Mbd
Galvanic decoupling of the analogical part,	2,5 Kv
Dimensions in mm	128 X 143 X 33
Weight kg	1,2

Structure of the hardware is composed of a receiving USB circuit and a circuit of converters placed on the same chart and separated by a galvanic decoupling.

This chart is installed in the metal case.

The panel before box :

- 1 green LED of PC control / hardware recognition
- 1 yellow LED of PC control / hardware recognition
- 1 green LED of control of the power supply
- 1 connector RCA "HEAD".

The back panel comprises:

- USB-A port
- 3 RCA "HAND" "FOOT" "TEST"



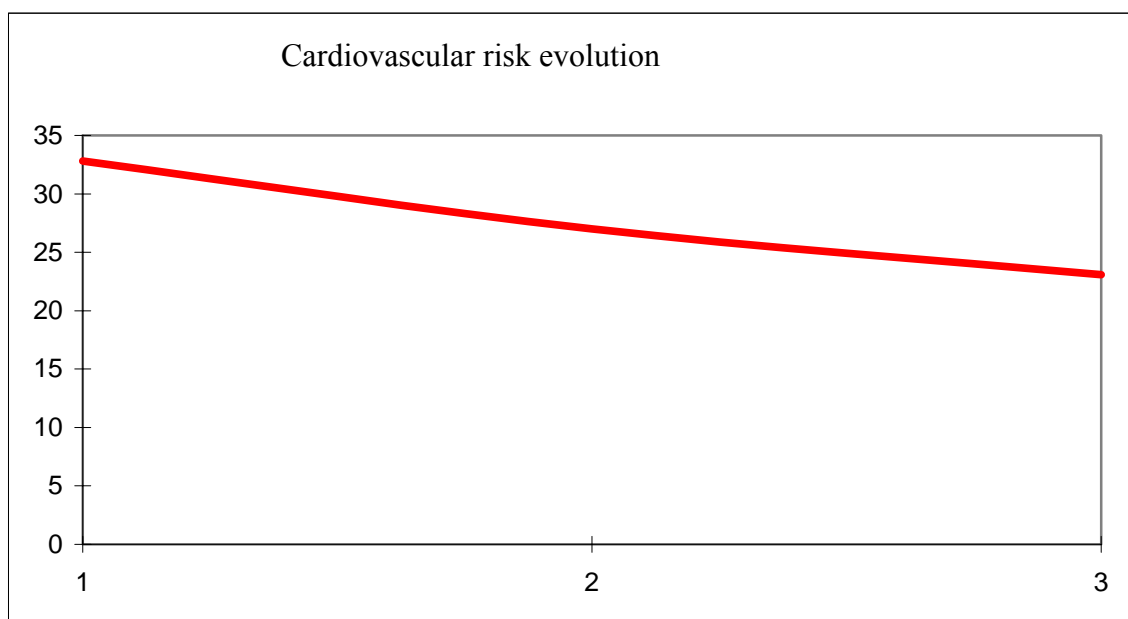
## Results

### 1. Main Risk ( conventional method diagnosis) and ESG risk analysis

Name	Age	Diagnosis	ESG main risk
Bratuska Andrey	38	Metabolic Syndrom	digestive
Zajceva Valentina Petrovna	56	Atherosclerosis and Hypertension	cardiovascular
Zverkova Tatiana Ivanovna		Metabolic Syndrom	cardiovascular
Kapralov Vasilyi Grigorevich	69	Atherosclerosis	cardiovascular
Konstantinova Uliya Mihailovna	17	Metabolic Syndrom	digestive
Lomakina Valentina Michailovna	46	Hypertension .	cardiovascular
Makurina Nadegda Leonidovna	57	Hypertension .	cardiovasculaire
Marasanov Alexander		Metabolic Syndrom	Bone and neuromuscular
Matanceva Raisa Alekseevna		Hypertension	cardiovascular
Murasheva Natalya Timofeevna	57	Osteochondrosis	Bone and neuromuscular
Nikonov Anatolyi Mihailovich	57	Hypertension	cardiovascular
Ovsyannikova Irina Valerievna	41	Chronic Gastroduodenite	digestive
Popova Ganna Arkadieвна	58	Ostéochondrosis Hypertension	cardiovascular
Radikova Irina Petrovna	50	Metabolic Syndrom	digestive
Razincin Sergey	41	Metabolic Syndrom	digestive
Rovkovskay Natalia Urievna	44	Hypertension	cardiovascular
Rovcovskiy Uriy Stepanovich	44	Osteochondrosis	Bone and neuromuscular
Savichev Mihail Urievich	44	Ostéochondrosis	Bone and neuromuscular
Sebeleva Irina Alekseevna		Metabolic Syndrom	digestive
Smirnov Alexander Vladimirovich	42	Hypertension	cardiovasculaire
Smirnova Irina Vasilevna	39	Ulcer	digestive
Tunyeв Vladimir Vasilevich	48	Atherosclerosis	cardiovascular
Urasimov Petr		Metabolic Syndrom	cardiovascular
Flier Andrey Jacovlevic	53	Atherosclerosis	cardiovascular
Chebotarev Vladimir Nicolaevich	57	Osteochondrosis	Bone and neuromuscular
Chebotareva Irina Nicolaevna	57	Veinous diseases.	cardiovascular
Shestak Victor Anatolievich	32	Hypertension	cardiovascular
Shestak Natalya Alexandrovna		Osteochondrosis	Bone and neuromuscular
Shoshina Evgeniya	54	Metabolic Syndrom	digestive
Jakovenko Natalia Vasilevna	43	Cervical arthrosis	Bone and neuromuscular
Vishneva Galina Petrovna	59	Atherosclerosis and Hypertension	cardiovascular
Dobrovolskay Elena Ivanovna	46	Cervical osteochondrosis	Bone and neuromuscular
Kuchma Margarita Ivanovna	69	Osteochondrosis	Bone and neuromuscular

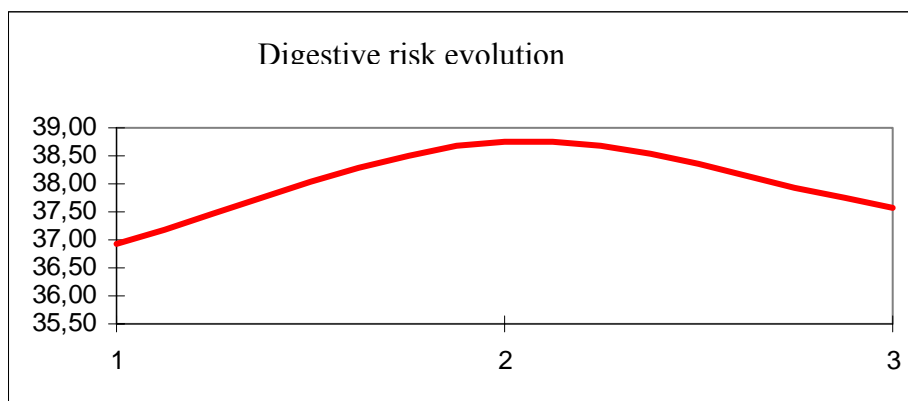
## 2. ESG ystem and risk follow up

Name	Visit 1	Visit 2	Visit 3
Zajceva Valentina Petrovna	21	21	21
Kapralov Vasilyi Grigorevich	60	60	21
Lomakina Valentina Michailovna	50	21	21
Makurina Nadegda Leonidovna	21	21	21
Matanceva Raisa Alekseevna	21	21	21
Rovkovskay Natalia Urievna	21	21	21
Smirnov Alexander Vladimirovich	21	21	21
Tunyev Vladimir Vasilevich	21	21	21
Flier Andrey Jacovlevic Shestak Natalya	21	21	21
Alexandrovna Vishneva Galina	21	21	21
Petrovna	50	21	21
	328	270	231



## DIGESTIVE SYSTEM

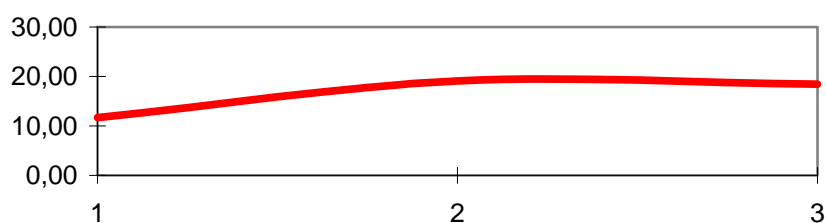
Name	visit 1	visit 2	visit 3
Borkovskay Natalya Evgenievna	60	21	60
Bosenko Elena Nicolaevna	60	21	60
Bratuska Andrey	60	21	60
Chebotareva Irina Nicolaevna	21	60	60
Denchik Elena Viktorovna	0	0	0
Denchik Irina Alexandrovna	0	0	0
Dobrovolskay Elena Ivanovna	60	60	21
Dyagileva Ludmila vasilevna	0	21	21
Flier Andrey Jacovlevic	60	60	60
Ivanov Mihail Anatolievich	60	60	21
Jakovenko Natalia Vasilevna	0	21	0
Kapralov Vasilyi Grigorevich	21	21	60
Loginova Ludmila Vladimirovna	60	21	0
Lohova Izabella Apollonovna	60	60	60
Lomakina Valentina Michailovna	21	21	60
Makurina Nadegda Leonidovna	60	60	60
Marasanov Alexander	0	60	21
Matanceva Raisa Alekseevna	60	60	21
Merkulova Darya Sergeevna	60	21	21
Merkulova Galina Petrovna	60	60	60
Mordasheva Tatyana Sergeevna	21	60	60
Murasheva Natalya Timofeevna	60	60	21
Novicov Yuryi Mihailovich	60	60	60
Ovsyannikova Irina Valerievna	0	0	60
Plevo Sergey Aleksandrovich	21	60	0
Popova Ganna Arkadievna	60	60	21
Rovcovskiy Uriy Stepanovich	0	21	21
Rovkovskay Natalia Urievna	60	60	60
Savichev Mihail Urievich	21	21	60
Shestak Natalya Alexandrovna	21	21	21
Shestak Victor Anatolievich	21	60	21
Smirnov Alexander Vladimirovich	60	60	60
Sologian Albert Michailovich	21	21	21
Tunyev Vladimir Vasilevich	60	21	60
Vishneva Galina Petrovna	0	21	21
Zajceva Valentina Petrovna	60	60	60
	<b>36,92</b>	<b>38,75</b>	<b>37,58</b>



## URO GENITAL SYSTEM

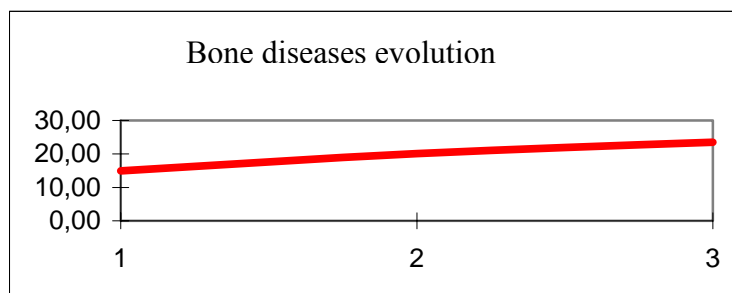
Name	visit 1	visit 2	visit 3
Borkovskay Natalya Evgenievna	0	0	0
Bosenko Elena Nicolaevna	0	21	21
Bratuska Andrey	21	21	21
Chebotareva Irina Nicolaevna	21	21	21
Denchik Elena Viktorovna	0	0	0
Denchik Irina Alexandrovna	0	0	0
Dobrovolskay Elena Ivanovna	0	21	0
Dyagileva Ludmila vasilevna	0	60	21
Flier Andrey Jacovlevic	21	21	21
Ivanov Mihail Anatolievich	0	21	0
Jakovenko Natalia Vasilevna	0	0	0
Kapralov Vasilyi Grigorevich	21	21	21
Loginova Ludmila Vladimirovna	0	21	21
Lohova Izabella Apollonovna	21	21	0
Lomakina Valentina Michailovna	21	21	21
Makurina Nadegda Leonidovna	0	0	0
Marasanov Alexander	0	21	21
Matanceva Raisa Alekseevna	0	21	60
Merkulova Darya Sergeevna	21	21	21
Merkulova Galina Petrovna	21	21	21
Mordasheva Tatyana Sergeevna	21	21	21
Murasheva Natalya Timofeevna	21	21	21
Novicov Yuriy Mihailovich	21	21	21
Ovsyannikova Irina Valerievna	0	0	0
Plevo Sergey Aleksandrovich	21	21	0
Popova Ganna Arkadievna	21	0	60
Rovcovskiy Uriy Stepanovich	0	21	21
Rovkovskay Natalia Urievna	21	21	21
Savichev Mihail Urievich	21	21	21
Shestak Natalya Alexandrovna	21	21	21
Shestak Victor Anatolievich	21	21	21
Smirnov Alexander Vladimirovich	0	21	21
Sologian Albert Michailovich	21	21	21
Tunyev Vladimir Vasilevich	21	21	21
Vishneva Galina Petrovna	0	60	60
Zajceva Valentina Petrovna	21	21	21
	<b>11,67</b>	<b>19,08</b>	<b>18,42</b>

Uro génital system evolution



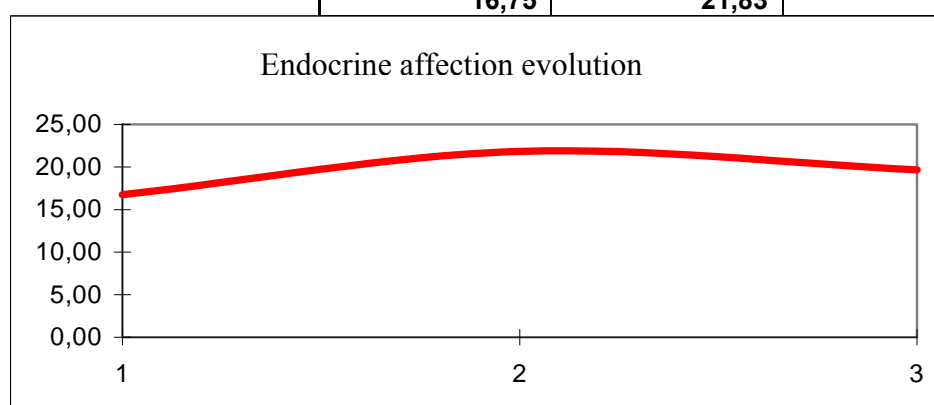
## BONE DISEASES

Name	visit 1	visit 2	visit 3
Borkovskay Natalya Evgenievna	21	0	21
Bosenko Elena Nicolaevna	0	21	21
Bratuska Andrey	21	21	21
Chebotareva Irina Nicolaevna	21	21	21
Denchik Elena Viktorovna	0	0	0
Denchik Irina Alexandrovna	0	0	60
Dobrovolskay Elena Ivanovna	21	21	21
Dyagileva Ludmila vasilevna	0	21	21
Flier Andrey Jacovlevic	21	21	21
Ivanov Mihail Anatolievich	21	21	0
Jakovenko Natalia Vasilevna	0	0	0
Kapralov Vasilyi Grigorevich	21	21	21
Loginova Ludmila Vladimirovna	0	60	60
Lohova Izabella Apollonovna	21	21	21
Lomakina Valentina Michailovna	21	60	21
Makurina Nadegda Leonidovna	0	0	0
Marasanov Alexander	0	21	60
Matanceva Raisa Alekseevna	0	21	21
Merkulova Darya Sergeevna	21	21	60
Merkulova Galina Petrovna	21	21	21
Mordasheva Tatyana Sergeevna	21	21	21
Murasheva Natalya Timofeevna	21	21	21
Novicov Yuryi Mihailovich	21	21	21
Ovsyannikova Irina Valerievna	0	0	21
Plevo Sergey Aleksandrovich	60	21	0
Popova Ganna Arkadievna	21	0	21
Rovcovskiy Uriy Stepanovich	0	21	21
Rovkovskay Natalia Urievna	21	21	21
Savichev Mihail Urievich	21	21	21
Shestak Natalya Alexandrovna	60	21	60
Shestak Victor Anatolievich	21	21	21
Smirnov Alexander Vladimirovich	0	21	21
Sologian Albert Michailovich	21	21	21
TunyeV Vladimir Vasilevich	0	60	21
Vishneva Galina Petrovna	0	21	21
Zajceva Valentina Petrovna	21	21	21
	<b>15,00</b>	<b>20,17</b>	<b>23,50</b>



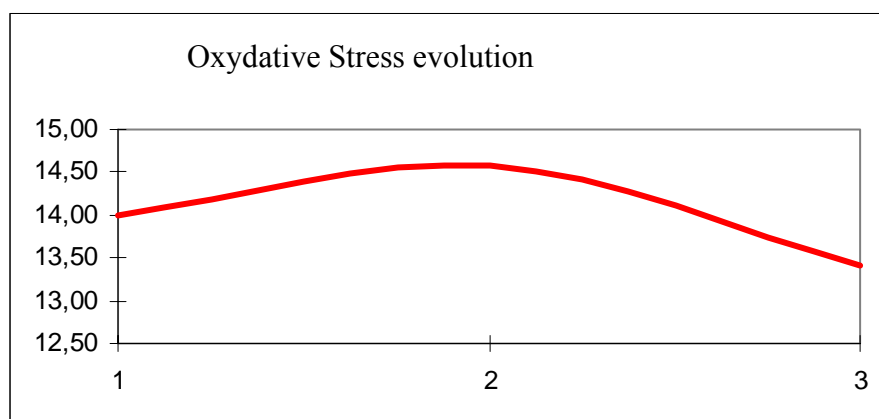
## ENDOCRINE AFFECTIONS

Name	visit 1	visit 2	visit 3
Borkovskay Natalya Evgenievna	0	0	21
Bosenko Elena Nicolaevna	0	60	21
Bratuska Andrey	21	60	21
Chebotareva Irina Nicolaevna	0	21	21
Denchik Elena Viktorovna	21	60	21
Denchik Irina Alexandrovna	21	21	0
Dobrovolskay Elena Ivanovna	0	21	0
Dyagileva Ludmila vasilevna	0	21	21
Flier Andrey Jacovlevic	21	21	21
Ivanov Mihail Anatolievich	0	21	0
Jakovenko Natalia Vasilevna	21	0	21
Kapralov Vasilyi Grigorevich	21	21	21
Loginova Ludmila Vladimirovna	0	21	21
Lohova Izabella Apollonovna	21	0	0
Lomakina Valentina Michailovna	21	21	21
Makurina Nadegda Leonidovna	21	21	21
Marasanov Alexander	0	21	0
Matanceva Raisa Alekseevna	21	21	21
Merkulova Darya Sergeevna	21	21	21
Merkulova Galina Petrovna	0	21	21
Mordasheva Tatyana Sergeevna	21	21	21
Murasheva Natalya Timofeevna	0	0	0
Novicov Yuriy Mihailovich	21	21	21
Ovsyannikova Irina Valerievna	21	0	21
Plevo Sergey Aleksandrovich	21	21	21
Popova Ganna Arkadievna	21	21	21
Rovcovskiy Uriy Stepanovich	21	21	21
Rovkovskay Natalia Urievna	21	21	21
Savichev Mihail Urievich	21	21	21
Shestak Natalya Alexandrovna	0	21	21
Shestak Victor Anatolievich	60	21	60
Smirnov Alexander Vladimirovich	21	21	21
Sologian Albert Michailovich	60	60	60
TunyeV Vladimir Vasilevich	21	0	21
Vishneva Galina Petrovna	21	21	21
Zajceva Valentina Petrovna	21	21	21
	<b>16,75</b>	<b>21,83</b>	<b>19,67</b>



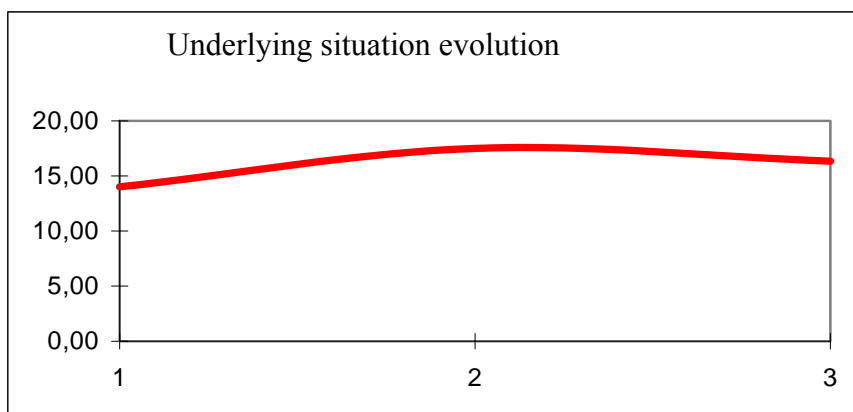
## OXYDATIVE STRESS

Name	visit 1	visit 2	visit 3
Borkovskay Natalya Evgenievna	0	21	0
Bosenko Elena Nicolaevna	21	21	21
Bratuska Andrey	21	21	21
Chebotareva Irina Nicolaevna	21	21	21
Denchik Elena Viktorovna	21	21	21
Denchik Irina Alexandrovna	0	0	21
Dobrovolskay Elena Ivanovna	21	21	0
Dyagileva Ludmila vasilevna	21	21	21
Flier Andrey Jacovlevic	21	21	21
Ivanov Mihail Anatolievich	21	21	21
Jakovenko Natalia Vasilevna	0	21	0
Kapralov Vasilyi Grigorevich	21	21	21
Loginova Ludmila Vladimirovna	21	21	21
Lohova Izabella Apollonovna	21	21	21
Lomakina Valentina Michailovna	21	21	21
Makurina Nadegda Leonidovna	21	21	21
Marasanov Alexander	21	21	21
Matanceva Raisa Alekseevna	21	21	21
Merkulova Darya Sergeevna	21	21	21
Merkulova Galina Petrovna	21	21	21
Mordasheva Tatyana Sergeevna	21	21	21
Murasheva Natalya Timofeevna	21	21	21
Novicov Yuryi Mihailovich	21	21	21
Ovsyannikova Irina Valerievna	21	21	21
Plevo Sergey Aleksandrovich	21	21	21
Popova Ganna Arkadievna	21	21	21
Rovcovskiy Uriy Stepanovich	21	21	21
Rovkovskay Natalia Urievna	21	21	21
Savichev Mihail Urievich	21	21	21
Shestak Natalya Alexandrovna	21	21	21
Shestak Victor Anatolievich	21	21	21
Smirnov Alexander Vladimirovich	21	21	21
Sologian Albert Michailovich	21	21	0
Tunyev Vladimir Vasilevich	21	21	21
Vishneva Galina Petrovna	0	21	21
	<b>18,67</b>	<b>20,42</b>	<b>18,67</b>



## Underlying situation

Name	visit 1	visit 2	visit 3
Borkovskay Natalya Evgenievna	0	0	0
Bosenko Elena Nicolaevna	21	21	21
Bratuska Andrey	21	21	21
Chebotareva Irina Nicolaevna	21	21	21
Denchik Elena Viktorovna	0	0	0
Denchik Irina Alexandrovna	0	0	0
Dobrovolskay Elena Ivanovna	0	21	21
Dyagileva Ludmila vasilevna	0	21	21
Flier Andrey Jacovlevic	21	21	21
Ivanov Mihail Anatolievich	21	21	0
Jakovenko Natalia Vasilevna	0	0	0
Kapralov Vasilyi Grigorevich	21	21	21
Loginova Ludmila Vladimirovna	0	21	21
Lohova Izabella Apollonovna	21	21	21
Lomakina Valentina Michailovna	21	21	21
Makurina Nadegda Leonidovna	21	21	21
Marasanov Alexander	0	21	21
Matanceva Raisa Alekseevna	21	21	21
Merkulova Darya Sergeevna	21	0	0
Merkulova Galina Petrovna	21	21	21
Mordasheva Tatyana Sergeevna	21	21	21
Murasheva Natalya Timofeevna	21	21	21
Novicov Yuryi Mihailovich	21	21	21
Ovsyannikova Irina Valerievna	21	0	21
Plevo Sergey Aleksandrovich	0	21	0
Popova Ganna Arkadievna	21	21	21
Rovcovskiy Uriy Stepanovich	21	21	21
Rovkovskay Natalia Urievna	21	21	21
Savichev Mihail Urievich	21	21	21
Shestak Natalya Alexandrovna	0	21	0
Shestak Victor Anatolievich	21	21	21
Smirnov Alexander Vladimirovich	0	21	21
Sologian Albert Michailovich	21	21	21
	<b>14,00</b>	<b>17,50</b>	<b>16,33</b>



### 3. Correspondence of ionogramme blood values and ESG results

#### KALIAEMIA

Name	Blood A. 1	ESG 1	Blood A. 2	ESG 2
Bratuska Andrey		N		N
Zajceva Valentina Petrovna		-5		N
Zverkova Tatiana Ivanovna		+5		N
Kapralov Vasilyi Grigorevich		-5		-5
Konstantinova Ulia Mihailovna		N		N
Lomakina Valentina Michailovna	3,5	N	4,1	N
Makurina Nadezda Leonidovna	3,3	-5	6,1	+5
Marasanov Alexander		N		N
Matanceva Raisa Alekseevna	5,7	+5	5,7	+5
Murasheva Natalya Timofeevna	3,2	-10		-10
Nikonov Anatolyi Mihailovich	3,4	-5		-5
Ovsyannikova Irina Valerievna	4,9	+5	4,9	+5
Popova Ganna Arkadieva	2,9	-10	4,1	N
Radikova Irina Petrovna		N		N
Razincin Sergey		-5		-5
Rovkovskaya Natalia Urievna	4,3	+5		+5
Rovcovskiy Uriy Stepanovich	5,1	+5	2,6	-5
Savichev Mihail Urievich	3,9	N	3,9	N
Sebeleva Irina Alekseevna		N		N
Smirnov Alexander Vladimirovich	4,3	+5	2,8	-5
Smirnova Irina Vasilevna	5	+5	4,3	N
Tuneyev Vladimir Vasilevich	5	+5	5	+5
Urasimov Petr		+5		+5
Flier Andrey Jacovlevic	3,4	N	2,2	-10
Chebotarev Vladimir Nicolaevich	4,6	+5		+5
Chebotareva Irina Nicolaevna	3,4	-5	3,7	-5
Shestak Victor Anatolievich	4,2	+5	3,7	N
Shestak Natalya Alexandrovna	3	-5	2,7	-10
Shoshina Evgeniya		+5		+5
Jakovenko Natalia Vasilevna	2,9	-10	6,2	+5
Vishneva Galina Petrovna	3,8	N	5,1	N
Dobrovolskaya Elena Ivanovna	4,3	+5	4,8	+5
Kuchma Margarita Ivanovna	4,6	+5	2,5	-5
		<b>0,00</b>	<b>0,00</b>	<b>0,00</b>

### NATRAEMIA

Name	Blood A. 1	ESG 1	Blood A. 2	ESG 2
Brataska Andrey		N		N
Zajceva Valentina Petrovna		N		N
Zverkova Tatiana Ivanovna		N		N
Kapralov Vasilyi Grigorevich		N		N
Konstantinova Ulia Mihailovna		N		N
Lomakina Valentina Michailovna	155	+5	141	N
Makurina Nadezda Leonidovna	127	-5	132	N
Marasanov Alexander		N		N
Matanceva Raisa Alekseevna	142	+5	134	N
Murasheva Natalya Timofeevna	138	N	104	-10
Nikonov Anatolyi Mihailovich	137	N		N
Ovsyannikova Irina Valerievna	149	+5	139	N
Popova Ganna Arkadievna	110	-10	131	N
Radikova Irina Petrovna		N		N
Razincin Sergey		N		N
Rovkovskay Natalia Urievna	163	+10		N
Rovcovskiy Uriy Stepanovich	129	N	138	N
Savichev Mihail Urievich	118	-10	86	-10
Sebeleva Irina Alekseevna		N		N
Smirnov Alexander Vladimirovich	148	N	138	N
Smirnova Irina Vasilevna	140	N	139	N
Tunyev Vladimir Vasilevich	120	-5		N
Urasimov Petr		N		N
Flier Andrey Jacovlevic	165	+10	132	N
Chebotarev Vladimir Nicolaevich	137	N		N
Chebotareva Irina Nicolaevna	135	N	138	N
Shestak Victor Anatolievich	126	N	129	N
Shestak Natalya Alexandrovna	156	+5	135	N
Shoshina Evgeniya		N		N
Jakovenko Natalia Vasilevna	166	+10	146	N
Vishneva Galina Petrovna	188	+10		+10
Dobrovolskay Elena Ivanovna	137	N	130	N
Kuchma Margarita Ivanovna	117	-5	138	N
			<b>0,00</b>	<b>0,00</b>

### CALCAEMIA

Name	Blood A. 1	ESG 1	Blood A. 2	ESG 2
Bratuska Andrey		-5		-5
Zajceva Valentina Petrovna		N		N
Zverkova Tatiana Ivanovna		N		N
Kapralov Vasilyi Grigorevich		N		N
Konstantinova Ulia Mihailovna		N		N
Lomakina Valentina Michailovna	1,15	-5	1,74	-5
Makurina Nadegda Leonidovna	2,23	N	1,84	-5
Marasanov Alexander		N		N
Matanceva Raisa Alekseevna	2,27	N	2,13	N
Murasheva Natalya Timofeevna	1,37	-5	1,43	-5
Nikonov Anatolyi Mihailovich	1,39	-5		-5
Ovsyannikova Irina Valerievna	1,88	-5	1,88	-5
Popova Ganna Arkadievna	2,28	N	2,22	N
Radikova Irina Petrovna		-5		-5
Razincin Sergey		N		N
Rovkovskay Natalia Urievna	2,45	N		N
Rovcovskiy Uriy Stepanovich	2,06	N	2,06	N
Savichev Mihail Urievich	0,89	-10	1,75	-5
Sebeleva Irina Alekseevna		N		N
Smirnov Alexander Vladimirovich	1,71	-5	1,89	-5
Smirnova Irina Vasilevna	1,78	-5	1,57	-5
Tunyev Vladimir Vasilevich	1,14	-5	1,92	N
Urasimov Petr		N		N
Flier Andrey Jacovlevic	1,99	N	2,02	N
Chebotarev Vladimir Nicolaevich	1,77	-5		-5
Chebotareva Irina Nicolaevna	1,73	-5	1,97	-5
Shestak Victor Anatolievich	1,25	-5	1,66	-5
Shestak Natalya Alexandrovna	1,6	-5	1,5	-5
Shoshina Evgeniya		N		N
Jakovenko Natalia Vasilevna	1,62	-5	1,94	N
Vishneva Galina Petrovna	1,75	N	2,25	N
Dobrovolskay Elena Ivanovna	1,83	N	3,29	+5
Kuchma Margarita Ivanovna	1,79	-5	1,55	-5
		<b>0,00</b>	<b>0,00</b>	<b>0,00</b>

## MAGNESAEMIA

Name	Blood A. 1	ESG 1	Blood A. 2	ESG 2
Bratuska Andrey		N		N
Zajceva Valentina Petrovna		N		N
Zverkova Tatiana Ivanovna		N		N
Kapralov Vasilyi Grigorevich		N		N
Konstantinova Ulia Mihailovna		N		N
Lomakina Valentina Michailovna	0,8	N	0,77	N
Makurina Nadegda Leonidovna	0,48	- 5	1,01	N
Marasanov Alexander		N		N
Matanceva Raisa Alekseevna	0,73	N	0,51	N
Murasheva Natalya Timofeevna	0,63	N	0,68	N
Nikonov Anatolyi Mihailovich	0,86	N		N
Ovsyannikova Irina Valerievna	0,61	N	0,61	N
Popova Ganna Arkadieвна	0,8	N	0,91	N
Radikova Irina Petrovna		N		N
Razincin Sergey		N		N
Rovkovskay Natalia Urievna	0,77	N		N
Rovcovskiy Uriy Stepanovich	0,84	N	0,6	N
Savichev Mihail Urievich	0,82	N	1,51	+ 5
Sebeleva Irina Alekseevna		N		N
Smirnov Alexander Vladimirovich	0,84	N	0,8	N
Smirnova Irina Vasilevna	0,81	N	0,74	N
Tunyeв Vladimir Vasilevich	0,58	- 5	0,97	N
Urasimov Petr		N		N
Flier Andrey Jacovlevic	0,49	- 5	1,09	N
Chebotarev Vladimir Nicolaevich	0,31	- 5		- 5
Chebotareva Irina Nicolaevna	0,21	- 10	1,15	N
Shestak Victor Anatolievich	0,64	N	0,79	N
Shestak Natalya Alexandrovna	0,22	- 10	0,96	N
Shoshina Evgeniya		N		N
Jakovenko Natalia Vasilevna	0,37	- 5	0,89	N
Vishneva Galina Petrovna	0,82	N	0,69	N
Dobrovolskay Elena Ivanovna	0,71	N	0,9	N
Kuchma Margarita Ivanovna	0,4	- 5	0,85	N

## Conclusions

The tests carried out on 33 patients in double control as well by the conventional methods as by ESG system, make it possible to show:

the reliability of the system which gives results in conformity 89% (confidence interval 95%) but it is about an estimate. In the base of recorded patients, the use of the ESG made it possible to note that the risk increases during the first week, then to decrease appreciably at the end of the therapy.

By its ease of use, non-invasive examination and the speed of obtaining the results (3 minutes), ESG system naturally finds its place in the supplementary examinations and the therapeutic follow-up brought as well for screening the pathological risk as ionogramme evaluation.

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