



MEDICALSOFT

INNOVATIVE DIAGNOSTICS

About us

The MEDICALSOFT Company is a manufacturer of a range of innovative equipment based on cutting-edge diagnostic technology and complex program cross-analysis of the data received:

- ▶ Bioimpedance analysis
- ▶ Galvanic skin response
- ▶ Heart rate variability
- ▶ Digital pulse wave analysis.

By using the achievements of science and technology in the field of diagnostics, in combination with our own innovative technology, our team of high-end professionals has identified efficient approaches to developing, manufacturing and selling top quality equipment that meets the challenges of both today and the foreseeable future.

All our devices are rather compact and mobile, which allows to use them in various conditions and situations, as well as ensures maximum comfort for patients during the examination.

Our equipment is used in health clinics, SPA resorts, and fitness centers in Russia and worldwide.





MS PRO

Touch Screen Kiosk
for Functional State
Assessment

What is MS PRO



Description

MS PRO is a touch screen kiosk with integrated Multiscan PRO hardware and software complex of functional state assessment

Intended use

MS PRO can be used as a screening system for the initial examination of a patient

Configuration



MS **PRO** includes:

- ▶ **Kiosk** with integrated electronic equipment
- ▶ **Touch screen** varies from 32 to 43 inches*
- ▶ **Hands platform** with built-in sensors to determine heart rate, galvanic skin response and bioimpedance
- ▶ **Feet platform** with built-in sensors for weight measurement, galvanic skin response and bioimpedance
- ▶ **Digital pulse wave sensor** (optional) *
- ▶ **Integrated MS PRO software** adapted for touch screen
- ▶ **Web camera, height meter and QR code scanner** (optional)*

* Parameters depend on the equipment configuration

Functions of MS PRO

- ▶ Segmental Body Composition Assessment
- ▶ Microcirculation Assessment
- ▶ Cardio Assessment
- ▶ Stress and Fatigue Assessment
- ▶ Vertebral Load Assessment
- ▶ Comprehensive Wellness Score Assessment
- ▶ Disease Screening
- ▶ Lab Test Results

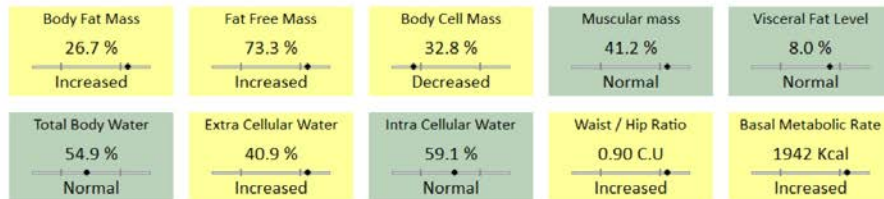
Measurement time: 2-6 minutes



3D Tools



Fat mass
3D Color code



Daily Activity Level:
 Moderate: walk 20 minutes a day / 1-2 hours sport a week
 Height : 5; Feet 10 Inch
 Weight : 205.0 Pounds (Norms: 129.2 - 173.9 Pounds)
 Body Mass Index: 29.4 (Norms: 18.5 - 24.9)
 Fat free mass: 150.4 Pounds (Norms: 118.3 - 142.9 Pounds)
 Fat mass: 54.7 Pounds (Norms: 25.8 - 49.6 Pounds)
 Muscular mass: 84.4 Pounds (Norms: 65.3 - 78.8 Pounds)
 TBW (Total Body Water): 51.0 L (Norms: 47.3 - 55.9 L)
 Extra Cellular Water: 20.88 L (Norms: 15.3 - 20.4 L)
 Intra Cellular Water: 30.17 L (Norms: 25.5 - 33.7 L)
 Body Cell Mass: 67.3 Pounds (Norms: 71.8 - 92.3 Pounds)

Fat mass of the left arm: 3.1 Pounds
 Fat mass of the right arm: 3.1 Pounds
 Fat mass of the left leg: 9.1 Pounds
 Fat mass of the right leg: 9.1 Pounds
 Trunk Fat mass: 13.7 Pounds
 TBW Control: 1.3 Pounds
 Basal Metabolic Rate / 24 Hours: 1942 Kcal - (increased)
 Visceral adipose tissue (VAT) = 88.0 cm² (Norms < 100 cm²)
 Visceral Fat Level = 8.0% (Norms < 9%)
 Phase Angle (PA) / 50KHz = 7.7

Segmental Body Composition Assessment

- ▶ Fat Mass
- ▶ Fat Free Mass
- ▶ Muscular Mass
- ▶ Body Cell Mass
- ▶ TBW (Total Body Water)
- ▶ Intra Cellular Water
- ▶ Extra Cellular Water
- ▶ Visceral Fat
- ▶ Basal Metabolic Rate



MICROCIRCULATION SCORE



3D Tools

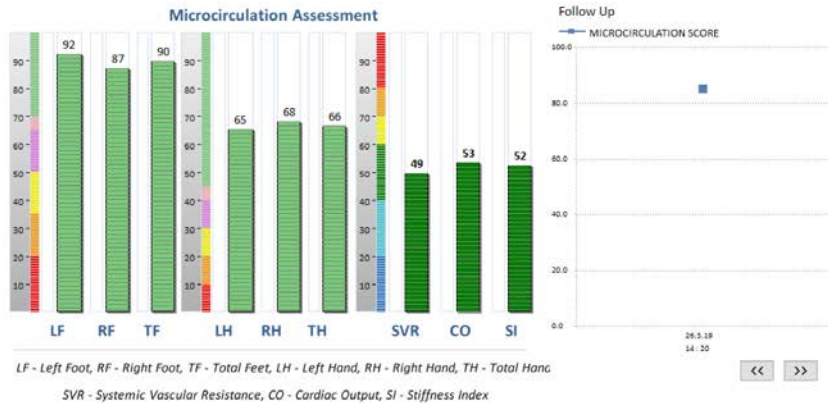


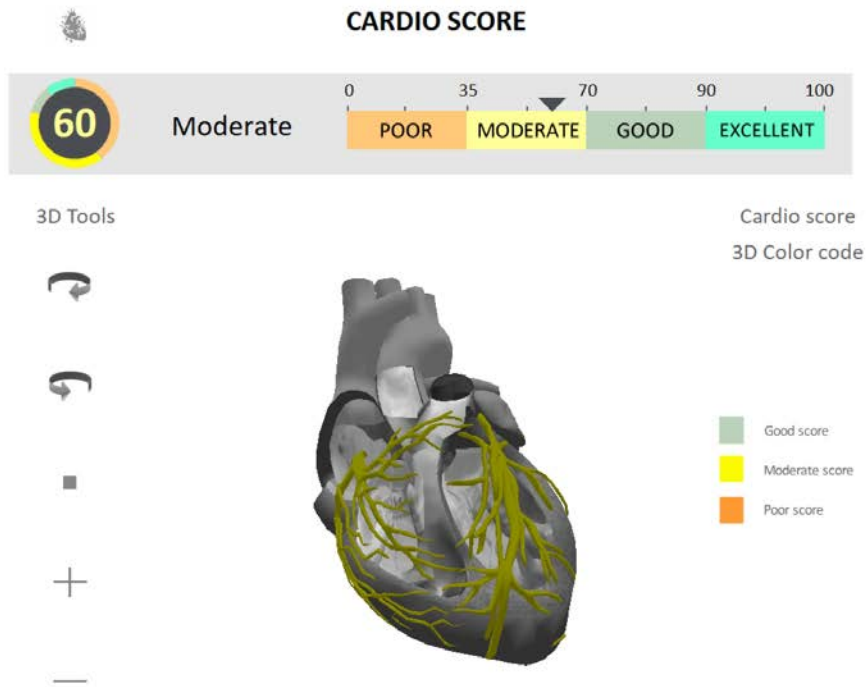
Microcirculation
3D Color code



Microcirculation Assessment

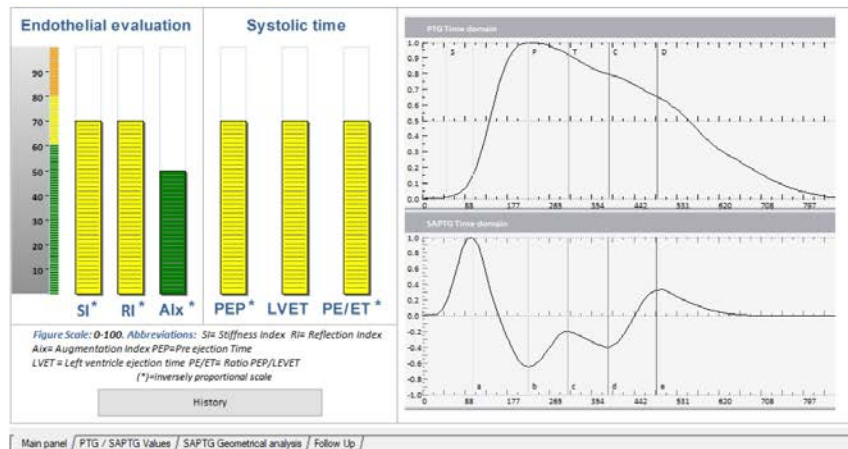
- ▶ Microcirculation Markers in Upper and Lower Limbs
- ▶ Arterial Stiffness Index
- ▶ Dynamic Monitoring of Cardio Training

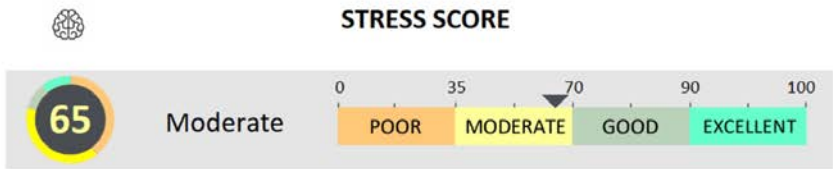




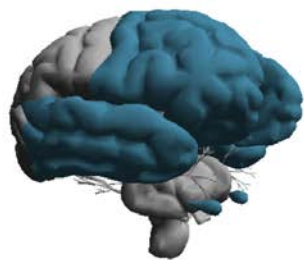
Cardio Assessment

- ▶ Determination of Biological Age
- ▶ Assessment of Central and Peripheral Hemodynamic Indicators





3D Tools

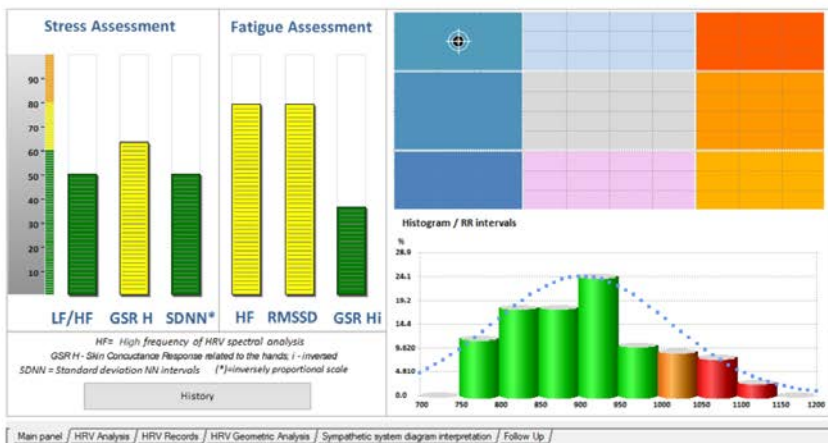


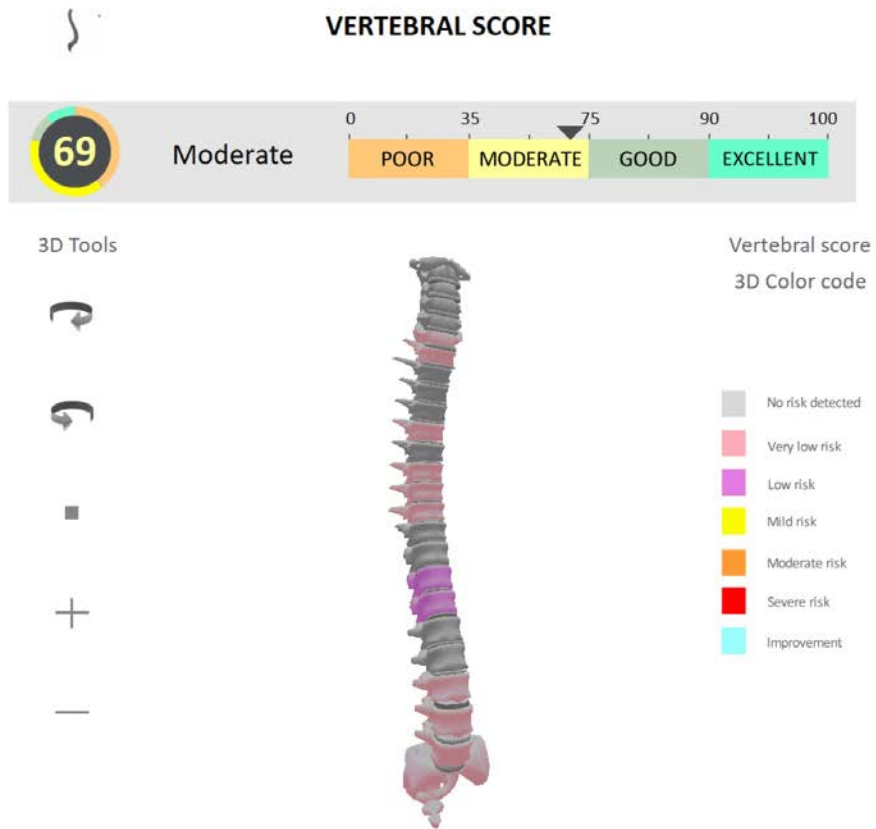
Stress - Fatigue
3D Color code



Stress and Fatigue Assessment

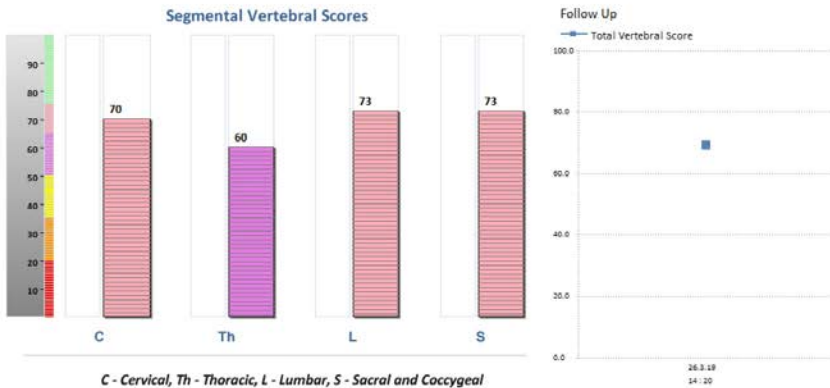
- ▶ Stress Level
- ▶ Fatigue Level
- ▶ Assessment and Prevention of Overtraining





Vertebral Assessment

- ▶ Assessment score of the neuromuscular conductivity level for various segments of the spinal column



Recommendations based on Results

► SPA procedures

► Sports training

► Diet and supplements

Assistance to the therapeutic decision. V = Suggested, Orange X = Warning, Red X = Contraindication

Indicators	Under	Normal	Over	Values	Norms	Units	Massage	Sauna	Pressure L...
Age				25	-				
BIA Indicators									
Body Mass Index				27.5	18.5 - 24.9	C.U	✓	✓	
Fat free mass				72.4	61.6 - 74.6	%	✓	✓	
Fat mass				27.6	10.8 - 21.8	%	✓	✓	
Total Body Water				32.5	32.0 - 62.2	%	✓	✓	✓
Extra Cellular Water				37.7	30.0 - 60.0	%	✓	✓	
Intra Cellular Water				62.3	50.0 - 66.0	%	✓	✓	
Muscular mass				37.0	34.0 - 41.2	%	✓	✓	
Psychology									
Indicators of asthma									
HRV LF (Low frequency)				39.06	22.00 - 46.00	%	✓	✓	
HRV HF (High frequency)				24.06	22.00 - 34.00	%	✓	✓	
Stress									
HR Heart Rate				79	60 - 90	bpm	✓	✓	
SI (Stress Index)				211.40	50.00 - 300.00	C.U	✓	✓	✓
HRV LF (Low frequency)				39.06	22.00 - 46.00	%	✓	✓	
HRV HF (High frequency)				24.06	22.00 - 34.00	%	✓	✓	
Q (Cardiac Output)				7.6	6.2 - 7.5	L/min	X	X	
Blood Pressure indicators									
Systolic pressure				120.0	110.0 - 140.0	mmHg	✓	✓	✓
Diastolic pressure				80.0	75.0 - 90.0	mmHg	✓	✓	✓
MAP (Mean Arterial Pressure)				93	65 - 100	mmHg	✓	✓	
Hemodynamic indicators									
SVR				988.3	900.0 - 1300.0	dyn-s/cm5	✓	✓	
SV (Stroke Volume)				96.4	60.0 - 100.0	ml	✓	✓	
Q (Cardiac Output)				7.6	6.2 - 7.5	L/min	✓	✓	
BV (Blood Volume)				6.41	5.72 - 6.32	L	✓	✓	
Arterial stiffness									
SI (Stiffness Index)				6.7	7.0 - 9.0	m/s	✓	✓	
O2 indicators									
SpO2%				96.50	95.00 - 100.00	%	✓	✓	
DO2 (Delivery oxygen)				1275.1	800.0 - 1200.0	ml/min-m2	✓	✓	
VO2				300.0	200.0 - 300.0	ml/min-m2	✓	✓	
Stress / Fatigue Assessment									
HR Heart Rate				79	60 - 90	bpm	✓	✓	
Sympathetic system									
Standard Deviation (SDNN)				40.6	40.0 - 80.0	ms	✓	✓	
LF / HF				1.8	0.5 - 2.0	C.U	✓	✓	
Parasympathetic system									
HRV HF (High frequency)				24.06	22.00 - 34.00	%	✓	✓	

SPA procedures 1 / SPA procedures 2 / SPA procedures 3 / Sport training 1 / Sport training 2 / Sport training 3

Assistance to the therapeutic decision. V = Suggested, Orange X = Warning, Red X = Contraindication

Indicators	Un	Nor	Over	Valu	Norms	Un	Cardi...	Cardi...	Low training	High training	Stre
Age				25	-						
BIA Indicators											
Body Mass Index				27.5	18.5 - 24.9	C.U	✓	X	X	✓	
Fat free mass				72.4	61.6 - 74.6	%	✓	✓	✓	✓	✓
Fat mass				27.6	10.8 - 21.8	%	✓	✓	✓	✓	✓
Total Body Water				32.5	32.0 - 62.2	%	✓	✓	✓	✓	✓
Extra Cellular Water				37.7	30.0 - 60.0	%	✓	✓	✓	✓	✓
Intra Cellular Water				62.3	50.0 - 66.0	%	✓	✓	✓	✓	✓
Muscular mass				37.0	34.0 - 41.2	%	✓	✓	✓	✓	✓
Blood Pressure indicators											
Systolic pressure				120.0	110.0 - 140.0	mmHg	✓	✓	✓	✓	✓
Diastolic pressure				80.0	75.0 - 90.0	mmHg	✓	✓	✓	✓	✓
MAP (Mean Arterial Pressure)				93	65 - 100	mmHg	✓	✓	✓	✓	✓
Hemodynamic indicators											
SVR				988.3	900.0 - 1300.0	dyn-s/cm5	✓	✓	✓	✓	✓
SV (Stroke Volume)				96.4	60.0 - 100.0	ml	✓	✓	✓	✓	✓
Q (Cardiac Output)				7.6	6.2 - 7.5	L/min	✓	✓	✓	✓	✓
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O2 indicators											
SpO2%				96.50	95.00 - 100.00	%	✓	✓	✓	✓	✓
DO2 (Delivery oxygen)				1275.1	800.0 - 1200.0	ml/min-mi	✓	✓	✓	✓	✓
VO2				300.0	200.0 - 300.0	ml/min-mi	✓	✓	✓	✓	✓
Stress / Fatigue Assessment											
HR Heart Rate				79	60 - 90	bpm	✓	✓	✓	✓	✓
Sympathetic system											
Standard Deviation (SDNN)				40.6	40.0 - 80.0	ms	✓	✓	✓	✓	✓
LF / HF				1.8	0.5 - 2.0	C.U	✓	✓	✓	✓	✓
Parasympathetic system											
HRV HF (High frequency)				24.06	22.00 - 34.00	%	✓	✓	✓	✓	✓

SPA procedures 1 / SPA procedures 2 / SPA procedures 3 / Sport training 1 / Sport training 2 / Sport training 3

3D Tools

Visceral Fat
3D Color code

- Normal range
- Slightly increased
- Mild increased
- Moderate increased
- Severe increased

NOT RECOMMENDED FOODS	RECOMMENDED FOODS
Vegetables Asparagus, Artichokes, Aubergines, Lettuce, Peas, Red beans, Brussels sprouts, Dried vegetables, Tomatoes, Onions, Beetroots, Potatoes, Maize Animal products In general avoid to eat red meat, Egg white, Game, Cold cuts, Liver, Kidney, Other Brain, Smoked meats, smoked fish and smoked poultry, Raw Fish, Fat meat and animal fats, Lard, Sausages, Bacon, Goose, Animal proteins and fats with moderation Dairy products Margarine, Butter, Cream, Cheese, Milk Cereals White flour and derivatives, White bread, French toast, Pastries, Semolina, White sugar, Pasta, Chocolate, White rice flour, Ice cream, Honey, Jam, Cocoa, Jam tart, less than 30g of fiber per day, Rye bread, Spongy wheat, Rice, Nougat, Sweet foods Fats Trans fats, Refined oils, Fatty foods, Margarines, Fried food, Mayonnaise Drinks Black tea, Alcohol, Commercial vinegar, Strong alcohol, Sweetened Soda Drinks, Beer, Cocoa Salty foods Salted or coated nuts or walnuts Fruit Apricots, Plums, Bananas, Pineapple, Dates, Fruit in syrup, Candied fruit, Dried fruit, Fruit jelly, Coconut, Fruit in syrup candied or in jelly, Fruit tarts Artificially sweet	Vegetables Pumpkin, Sesame, sunflower seeds, Sprouted seeds, Egg Plant, String Beans, Celery root, Lentils, Fennel, Celery, Cabbage, Beans, Lettuce, Salads, Cucumbers, Sunflower, Spinach Animal products Salmon, Tuna, Egg yolk, Avocado, Oysters Dairy products Almond milk, soy milk, rice milk Carbohydrates Fruuctose and sorbitol, Yeast, Whole bread or whole grain cereals, Oats, Brewer's yeast Drinks Chicory, Green tea Fruit 2 fruits per day max, Goji berries, Apples, Blackberry, Blueberry, Pear Herbs, Garlic Anise, Garlic Plant proteins Cider vinegar, Cinnamon, Curry, Ginger, Lemon, Peppers Plant proteins Soy, Lentils, Soy and barley derivatives, Algae Cereals Bran
DIET Daily Energy Expenditure (DEE): 3299 kcal A low calorie diet is recommended based on plant proteins (soy and soy products), fruits (not plums and apricots) vegetables (no asparagus, artichokes, Brussels sprouts and onions) and diet milk. Physical exercise is essential, with moderation, it will be introduced gradually and become regular, with at least 20 minutes per day. As a micronutrient supplement (capsules), L-carnitine and L-citrulline will be effective.	COOKING METHODS Steaming is to be preferred to all other methods. For cooking food olive, peanut or palm oil, without ever allowing it to smoke. For improved digestion, advice for cooking: carrots, tomatoes, broccoli, spinach then add onion or garlic oil after cooking. To prepare fish, marinate in lemon juice, wine or oil, then steam or broil in stock. Do not burn or carbonize meat and throw away the gristle.

Visceral Fat Level: 1

Screening Markers

▶ Cardiovascular system:

- Cardiovascular disease
- Atherosclerotic vascular disease
- LDL cholesterol
- Left ventricular hypertrophy
- Inflammatory process

▶ Diabetes:

- Diabetes
- Metabolic syndrome
- Insulin resistance
- Beta cells functional depression
- Glucose tolerance test
- Microvascular endothelial cell function

▶ Hepatitis

▶ Prostatic adenoma

▶ Checking the hyperactive child syndrome

▶ Cerebrum and thyroid:

- Cerebrum and thyroid
- Serotonin reaction in the brain
- Dopamine and norepinephrine reaction in the brain
- GABA reaction in the brain
- Thyroid reaction

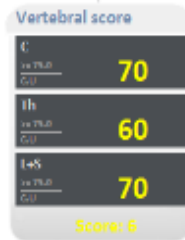
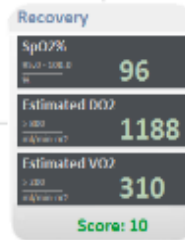
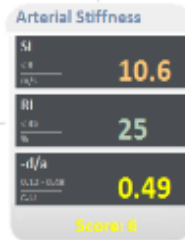
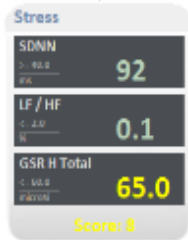
The Laboratory Tests Results

- ▶ The laboratory test results are shown as numbers obtained from a lab, and can be used by the program to refine information in all sections.



MAIN INDICATORS

Physiological Indicators






Comprehensive Wellness Score Assessment





- ▶ Integral Wellness Score
- ▶ Endurance
- ▶ Efficiency
- ▶ Physical Performance

Top Risk Factors & Recommendations


TOP RISK FACTORS TODAY

✓		Body composition	Moderate
✓		Fluid balance	Moderate
✓		Fatigue	Moderate

RECOMMENDATIONS

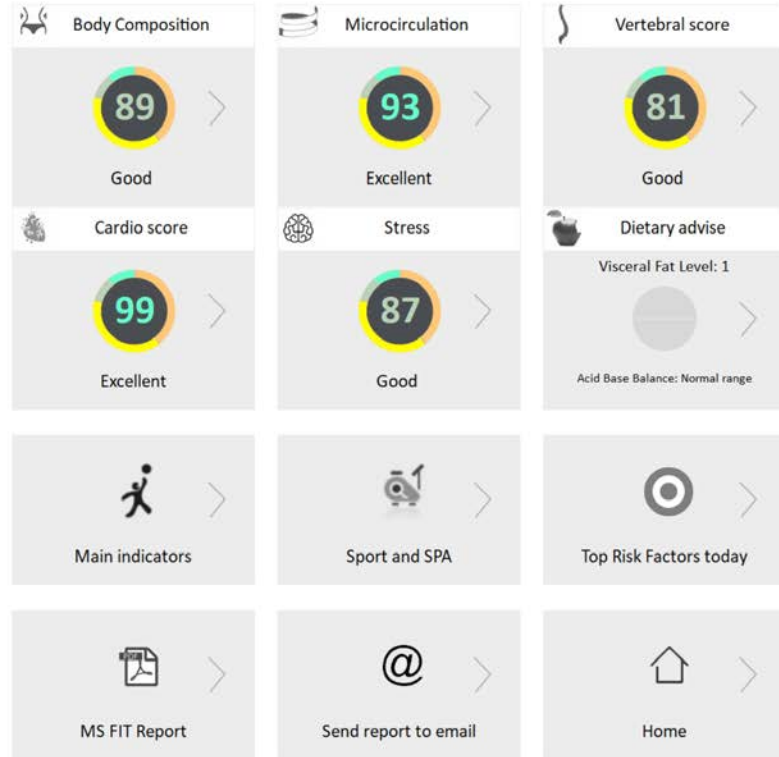
 Dietary advise Visceral Fat Level: 2  Acid Base Balance: Acidosis	Sport  Sport trainings	Wellness  SPA procedures
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Full Report


Get detailed information

- ▶ At the end of the test, the client can see the summary of the top risk factors based on his/her current state
- ▶ A detailed report is automatically sent to the client's e-mail address

Wellness score



After the very first test the clients

- ▶ **have a clearer picture** of their current wellness,
- ▶ **know about possible reasons** for certain health issues,
- ▶ **understand in which direction to go** in order to achieve their goals



```
graph TD; A[YOUR BENEFITS] --- B[Increase in the personal workouts number]; A --- C[Monitoring of physiological indicators and wellness scores in the training process to assess its effectiveness]; A --- D[Increase in percentage of extended contracts]; A --- E[Competitive advantage to attract new customers]; A --- F[Increase in sales of additional services (personal trainings in related departments, SPA procedures, sports nutrition)]; A --- G[Comprehensive customer service];
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YOUR BENEFITS

Increase in the personal workouts number

Monitoring of physiological indicators and wellness scores in the training process to assess its effectiveness

Increase in percentage of extended contracts

Competitive advantage to attract new customers

Increase in sales of additional services (personal trainings in related departments, SPA procedures, sports nutrition)

Comprehensive customer service

By purchasing **MS PRO**
you get:



We are looking forward to future cooperation!

Contact us

MEDICALSOFT LLC

Manufacturer of innovative health screening systems for professional and personal use



<http://www.medicalsoft.com>



info@medicalsoft.com

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