

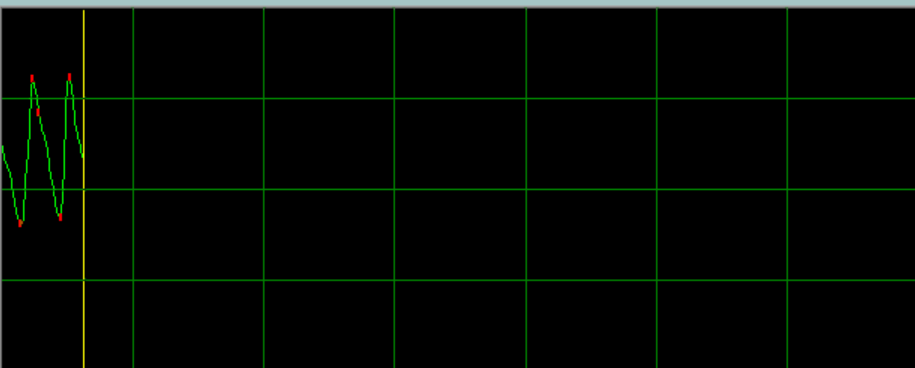
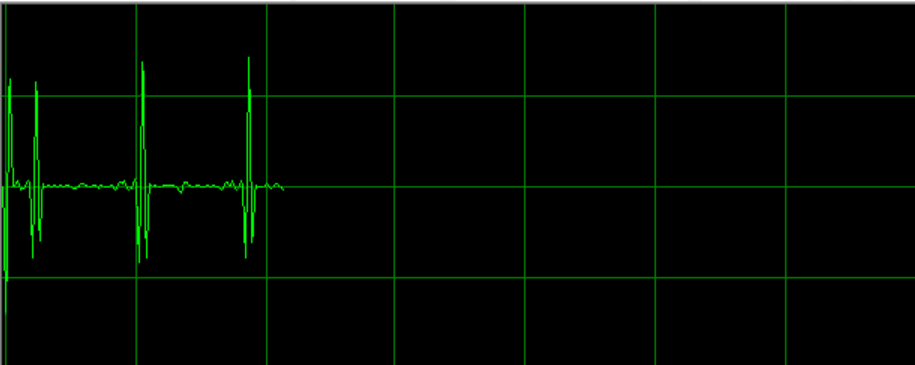
ES TECK SYSTEM

- GENERAL INFORMATION'S

ES Teck Measurements

ESTECK

HRV and SPO2 scanning ...



Scale X: x 1, x 2, x 4; Scale Y: x 1, x 2, x 4

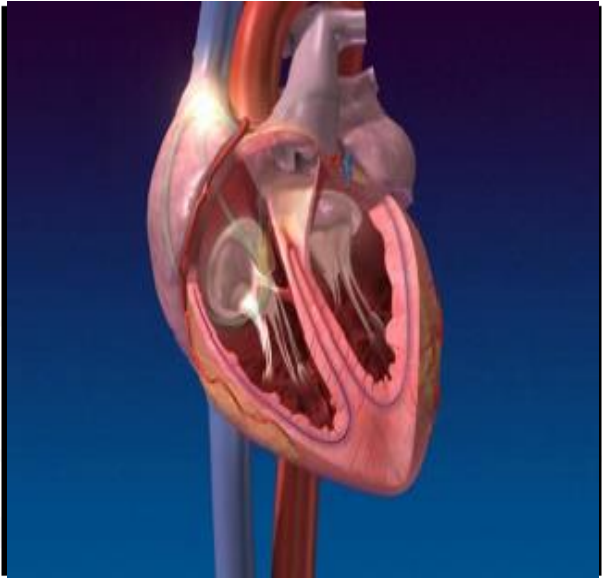
Scale X: x 1, x 2, x 4; Scale Y: x 1, x 2, x 4

Start Stop

Type: Original signal, Software filtration

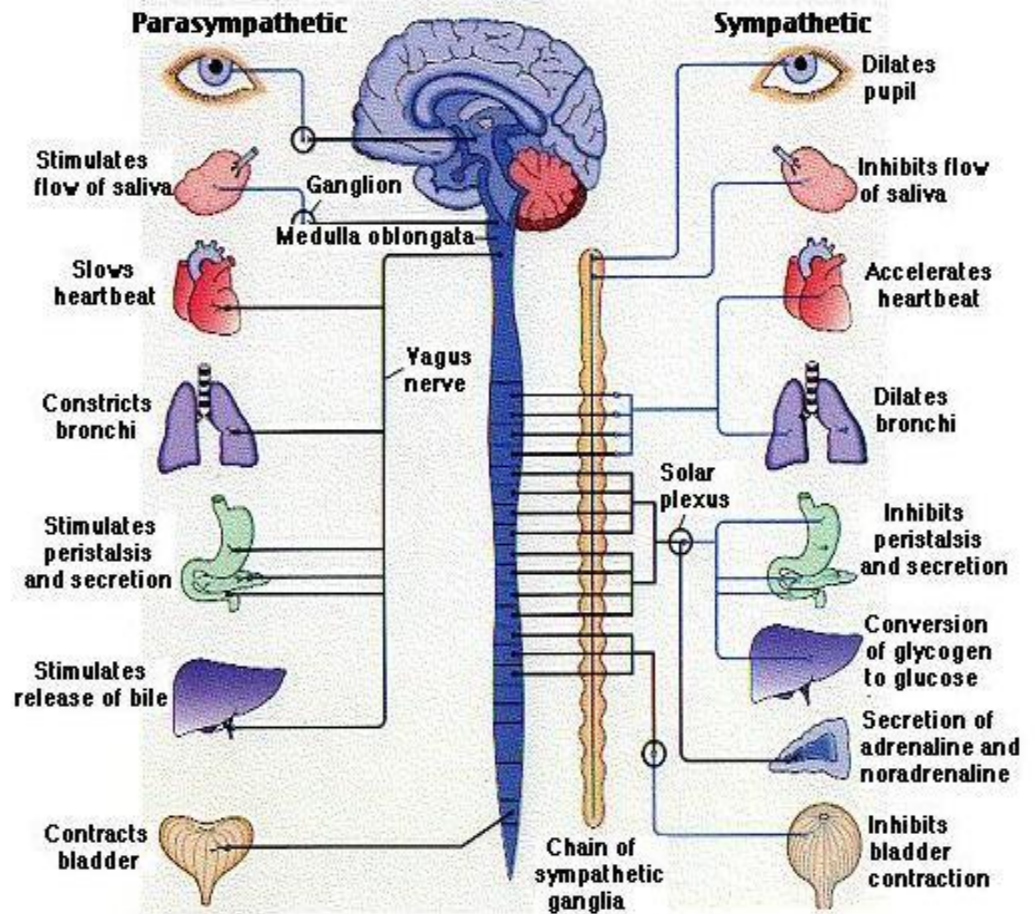
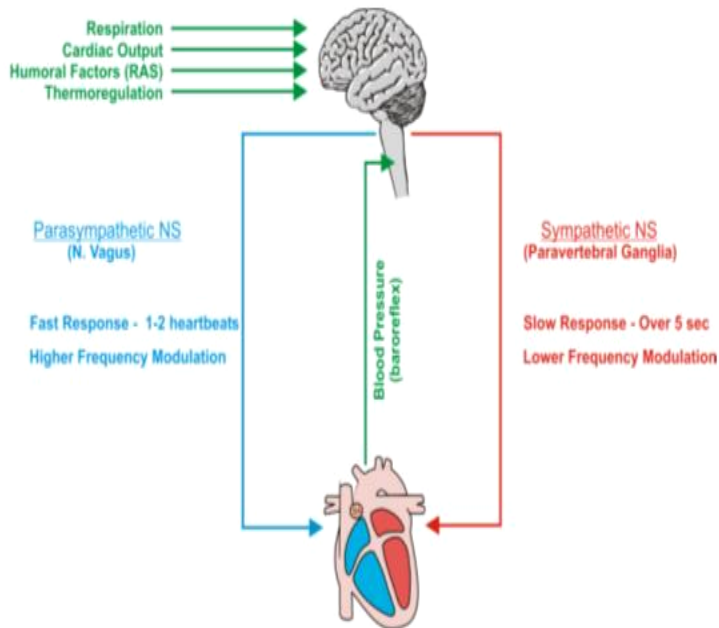
HSF filtration: High pass filter 0,1 Hz, High pass filter 1,0 Hz

BSF filtration: Band stop filter 50 Hz, Band stop filter 60 Hz

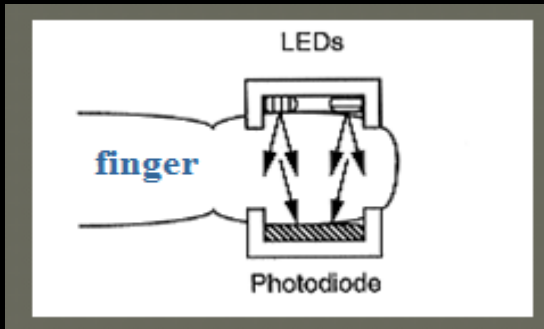


| HR [bpm] | RR [ms] | ECG Quality [0..100%] |
|------------------|------------|-----------------------|
| --- | --- | --- |
| Signal strenght | SPO2 | PR |
| 10 | 97 | 93 |
| SPO2 probe state | Wave value | |
| ON | 43 | |

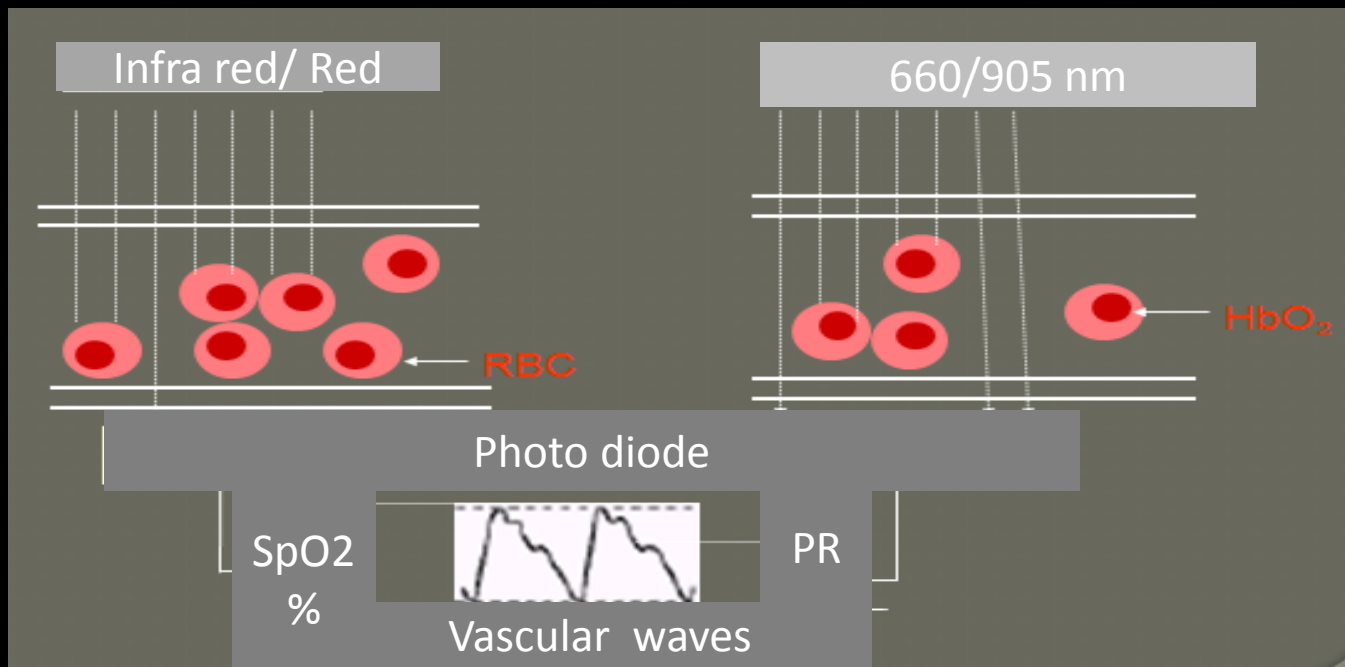
Autonomic Nervous System and Heart rate variability



SpO2 AND Photoelectrical Plethysmography



SpO2 Probe



SpO2 ANALYSIS

Oxygen - hemoglobin Affinity Changes.

The functions of hemoglobin are oxygen pickup and delivery. The hemoglobin has an affinity (the strength of bond between oxygen and hemoglobin) that can be increased or decreased due to various situations. If hemoglobin has an increased affinity, it is highly saturated; but oxygen is less available for release to the tissues due to the strong bond. The reverse is also true.

97% saturation = 97 PaO₂ (normal)

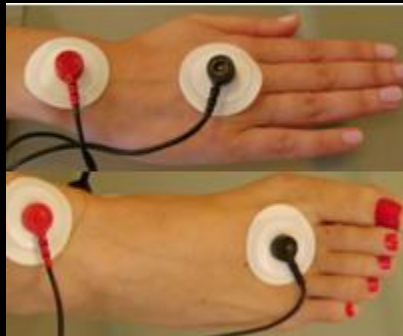
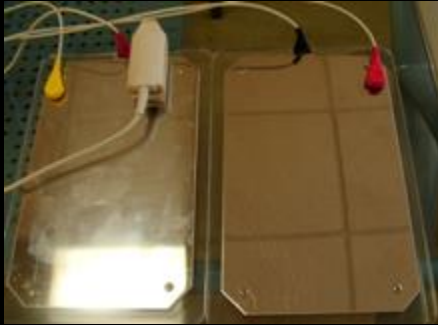
90% saturation = 60 PaO₂ (danger)

80% saturation = 45 PaO₂ (severe hypoxia)

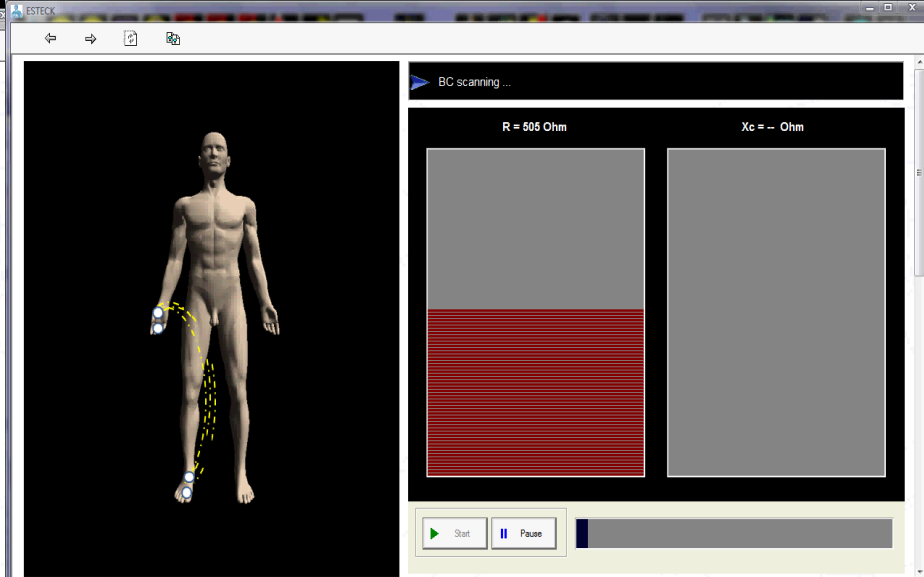
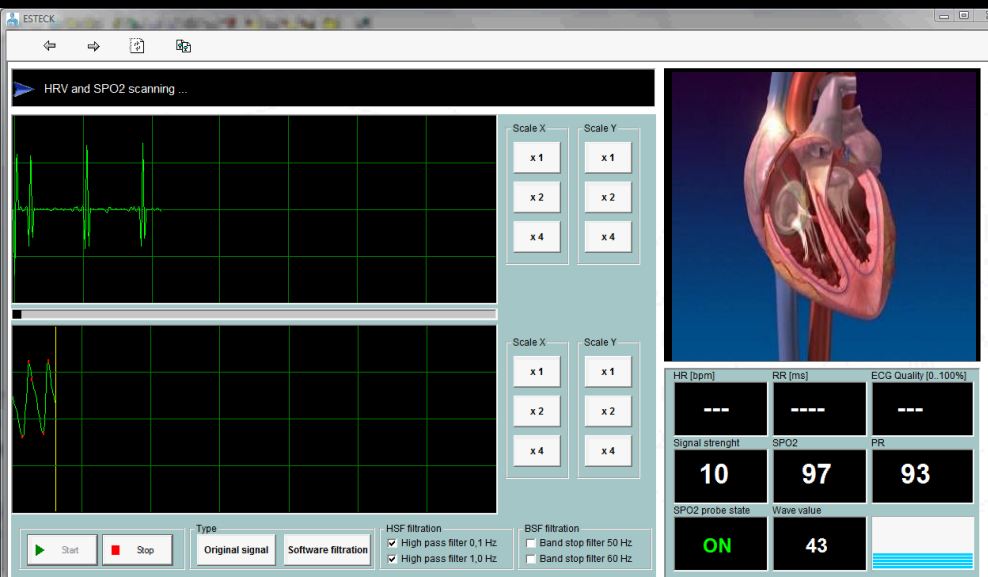
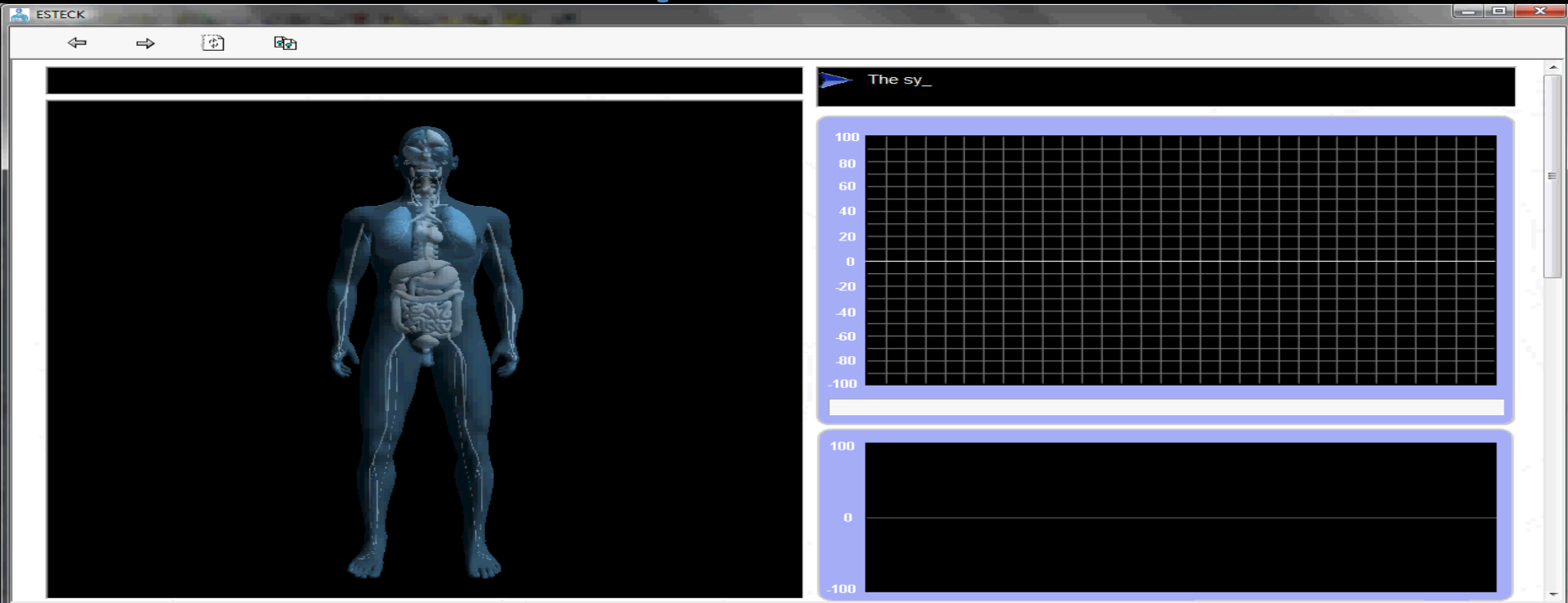
E.S. TECK COMPLEX

- GENERAL INFORMATION'S

ES TECK COMPLEX THE NATURAL EIS UPDATE



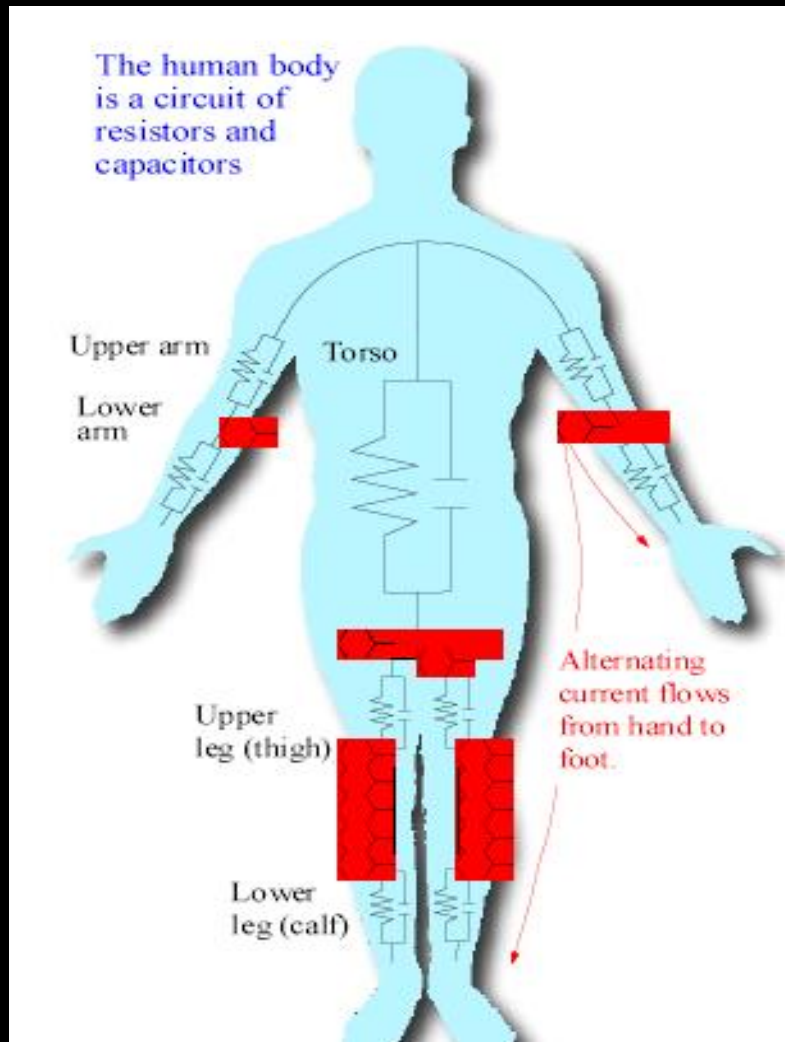
ES Teck Complex Measurements



E.S TECK COMPLEX INTENDED USES

- **HRV module:** To analyze the basic rhythms of the NN or RR intervals in electrocardiograms, both in the time domain and in the frequency domain (short time 5 minutes)
- It only provides numerical analyses of the input electrocardiogram.
 - **Estimate of the parasympathetic and sympathetic system stimulation.**
- **PP module:** Analyze the pulse waveform by photoelectric plethysmography and Pulse rate.
 - **Evaluation of Large and small artery**
- **EIS module:**
 - **Monitoring of diseases, functional and lifestyle ' treatments**
 - **Adjunct to conventional diagnosis of ADHD children**
- **BIA module :**
 - **Calculation and Historical Tracking of body composition**

Body Impedance Analysis (BIA)



Measurement of the Resistance and Reactance in Tetra polar mode with a frequency of 50 KHz



Resistance and Reactance measurements

- Resistance is a measure of how difficult it is for electricity to flow through an object.
- Reactance

Most objects have some capacitance, which is a measure of ability to store an electrical charge. The more capacitance the object has, or the faster the current changes direction, the less the object will “react” to the current.

EIS B I A

Peer reviews formula

- Total Body Water :TWB

5-19 y.o Davies et al 1988

20-80 y.o Lukaski and Bolonchuk 1988

Adult obese subjects: Segal et al 1988

- Fat free fat mass:

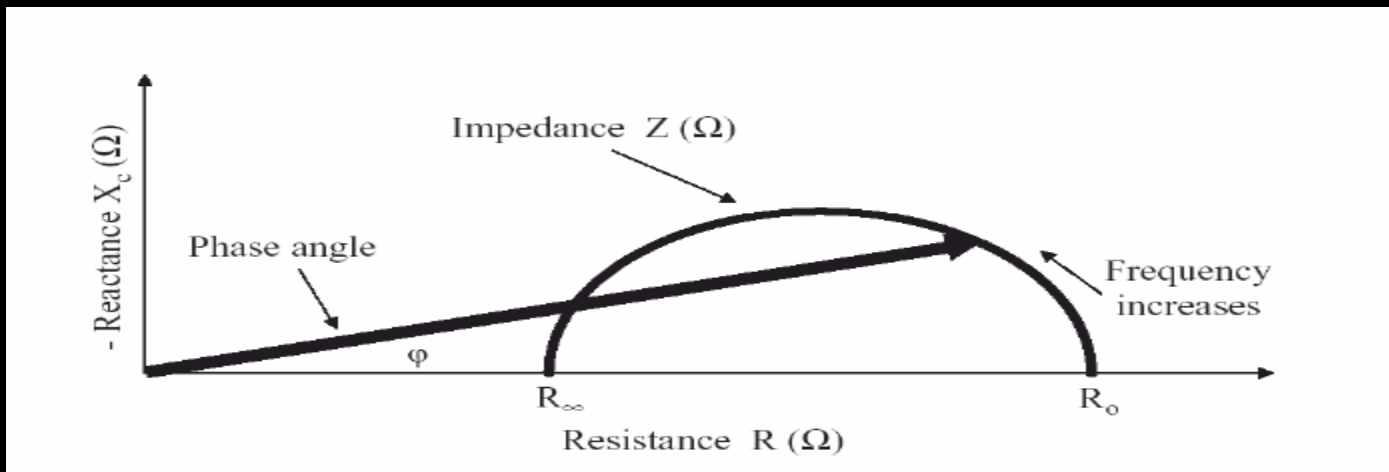
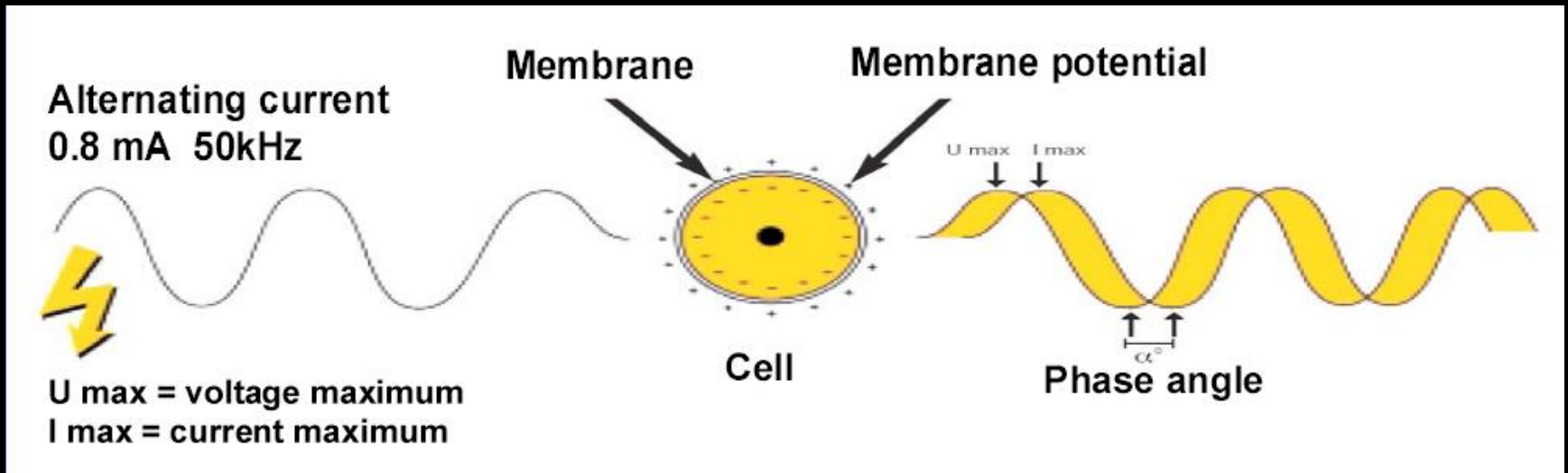
7-15 y.o Deurenberg et al 1991

16-83 y.o Deurenberg et al 1991

- Extra cellular water volume : EWC

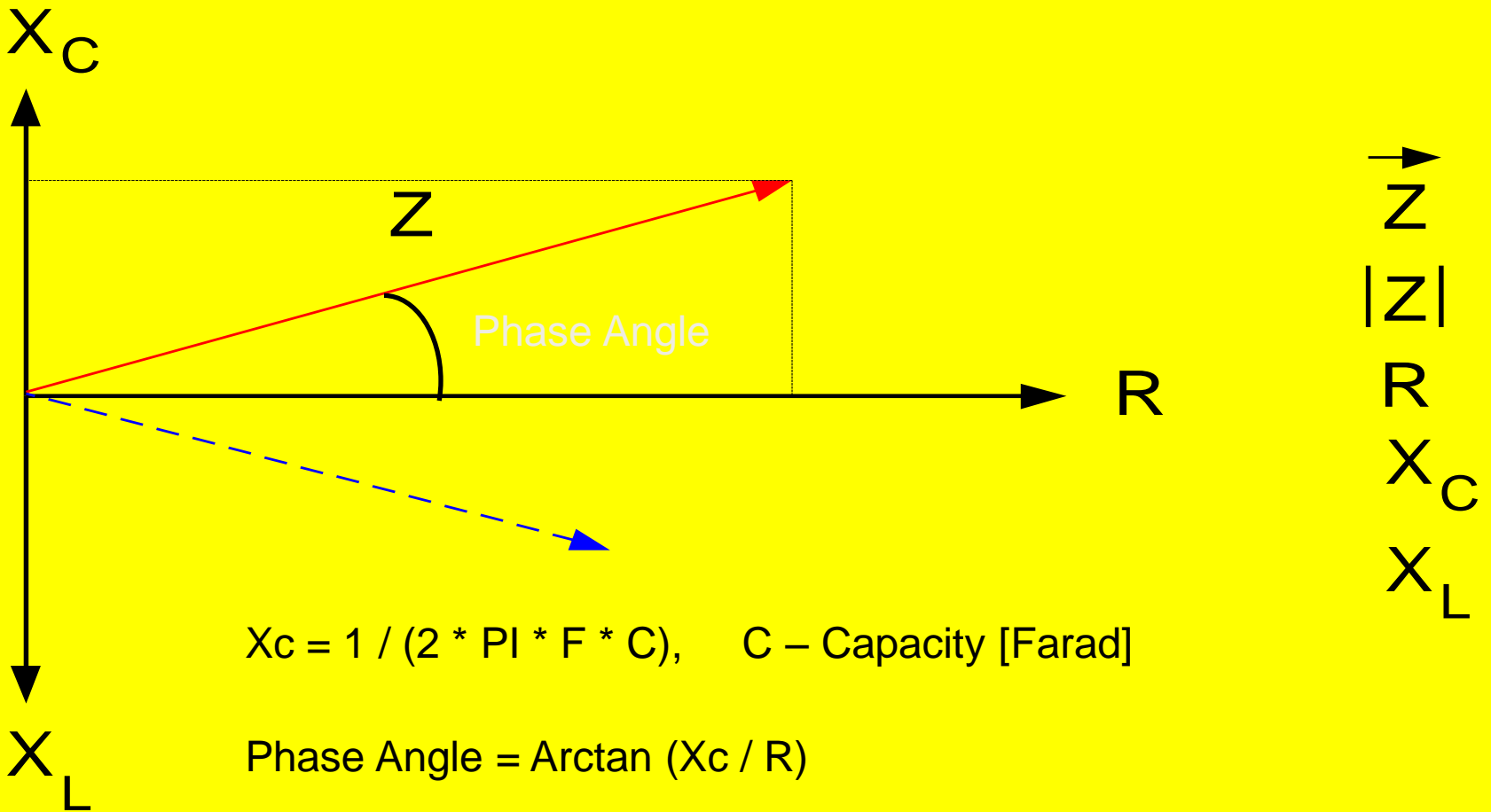
Sergi G, et al 1994

Phase Angle



Impedance Components

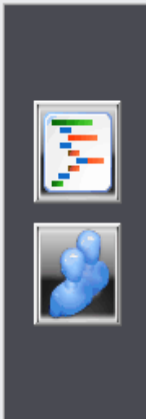
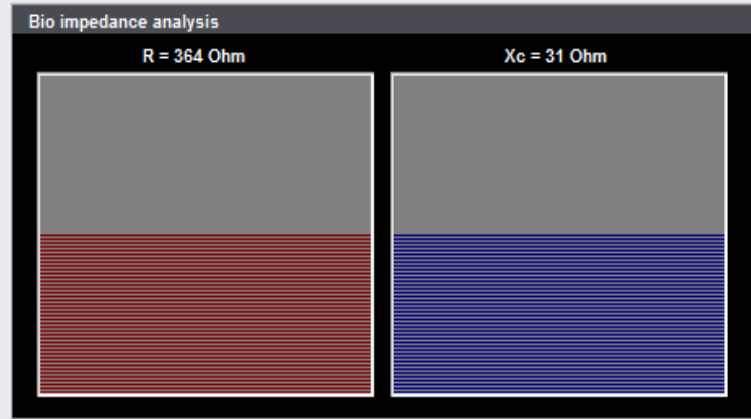
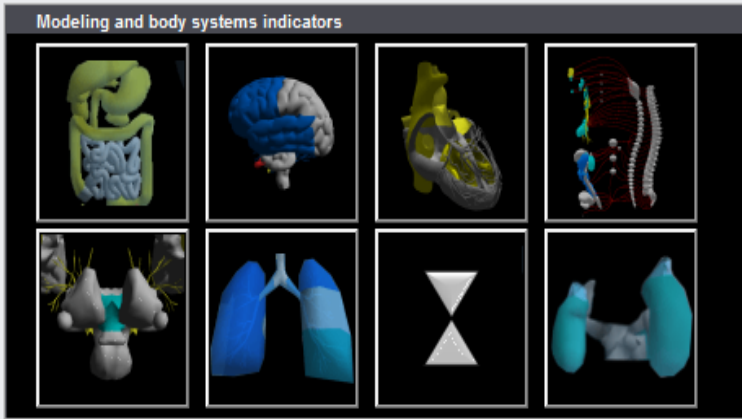
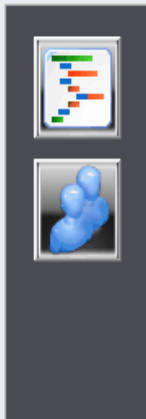
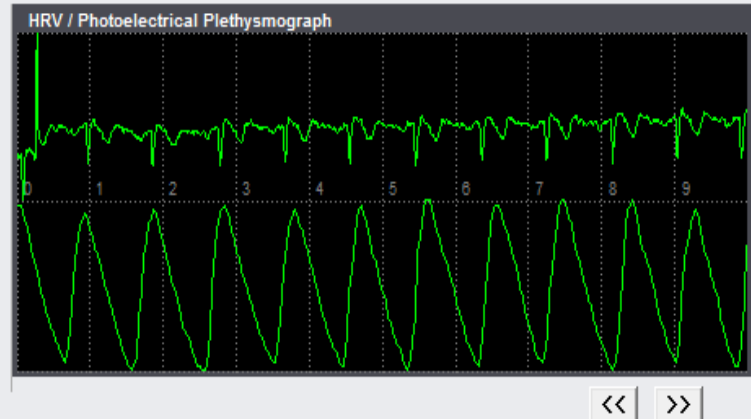
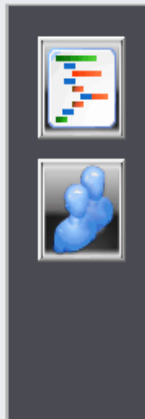
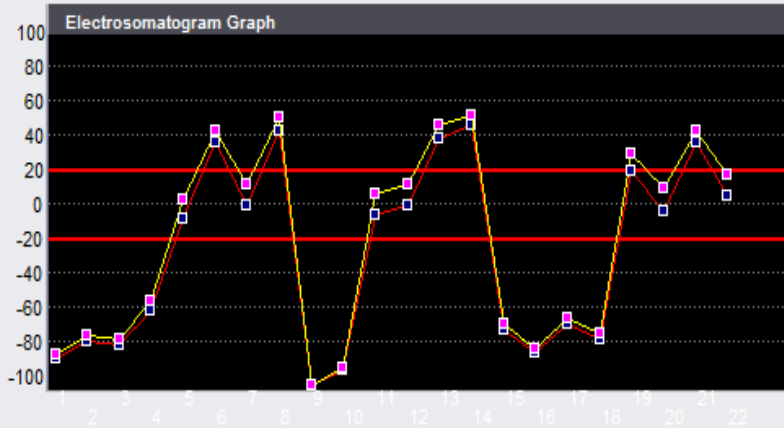
$$Z = \sqrt{R^2 + X^2}$$



E.S TECK RESULTS

Age: 71
 Gender: Male
 Measurements : 1A1 (61) / 3.9.2008 13 : 38 , 1N1 (55) / 3.9.2008 13 : 34

Mitochondrial activity: Value Norm
 Symptoms and treatments : Angiotensin conversion enzyme inhibitors (CEI) ; Beta-blocker ; Platelet anti-aggregants ;
 Thyroid hormones ; IRS (Fluvoxamine) ;



Statistical Cross Analysis

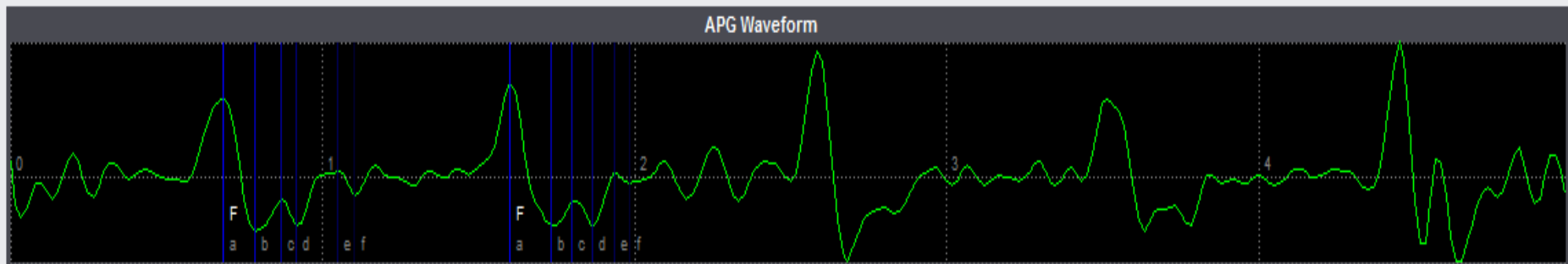
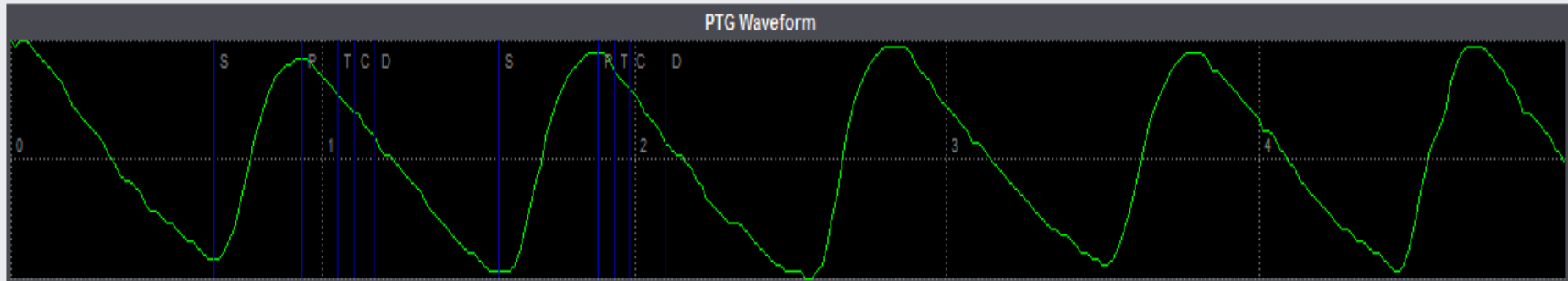


SpO2 RESULTS AND MANAGEMENT OF THE PHOTOELECTRICAL WAVE

Patient: 1g07
 Age: 71
 Gender: Male
 Measurements : 1A1 (61) / 3.9.2008 13 : 38 , 1N1 (55) / 3.9.2008 13 : 34

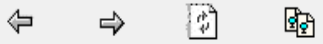
BMI: 29.76 , % Fat mass : 31.3, % Total body water : 51.3
 Mitochondrial activity: Value Norm
 Symptoms and treatments : Angiotensin conversion enzyme inhibitors (CEI) ; Beta-blocker ; Platelet anti-aggregants ;
 Thyroid hormones ; IRS (Fluvoxamine) ;

| Indicators | Under | Normal | Over | Values | Norms | Units | Comments | Follow Up |
|------------------|-------|--------|------|--------|-------------|-------|----------|-----------|
| SpO2 Measurement | | | | | | | | |
| SpO2 | | | | 97.0 | 94.0 - 96.0 | % | | |
| PR (Pulse Rate) | | | | 69 | 68 - 79 | bpm | | |
| Signal Strength | | | | 10 | 8 - 12 | mm | | |
| Wave Value | | | | 76 | 65 - 95 | mm | | |



BODY COMPOSITION RESULTS

ESTECK

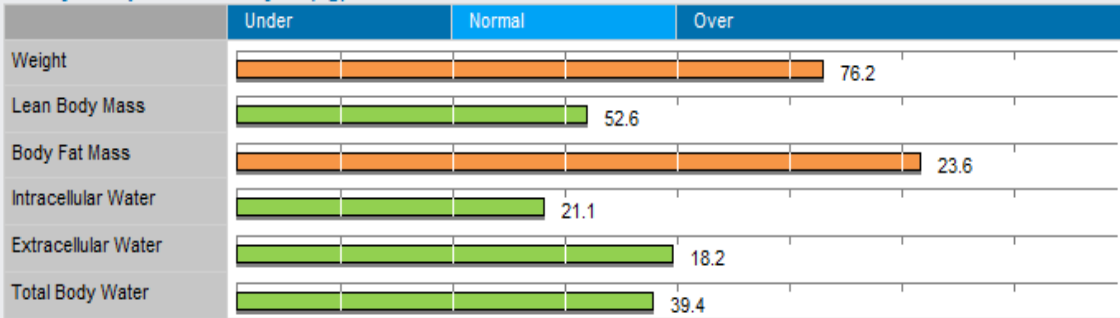


Patient: 1g07 Age: 71 Visit: 15.8.2008 7:34

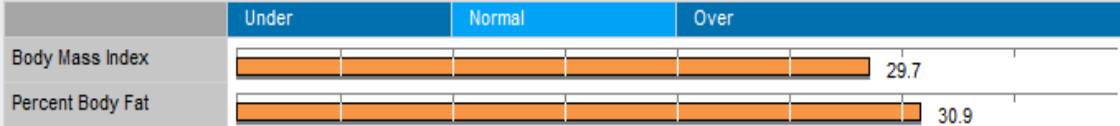
Body Composition (kg)

| Compartments | Values | Total Body Water | Lean Body Mass | Weight |
|---------------------|--------|------------------|----------------|--------|
| Intracellular Water | 21.1 | 39.4 | 52.6 | 76.2 |
| Extracellular Water | 18.2 | | | |
| Dry Lean Mass | 13.3 | | | |
| Body Fat Mass | 23.6 | | | |

Body Composition Analysis (kg)



Obesity Diagnosis (%)



Weight Control (kg)

| | | |
|-----------------------------|--------------------|---------------------------------|
| Current Target Weight: 61.9 | Fat Control: -12.1 | Basal Metabolic Rate: 1503 Kcal |
| Weight Control: -14.3 | LBM Control: -0.7 | |

Daily Activity Level:
 Very light: stay at home, no activity
 Overweight
 Height: 160.0 cm
 Weight: 76.2 kg
 Fat free mass: 52.6 kg
 Fat mass: 23.6 kg (30.9%)
 TBW: 39.4 kg (51.6%)
 Extracellular Water: 18.25 kg (+4.9%)
 Intracellular Water: 21.11 kg (-0.9%)
 Basal metabolic rate / 24 Hours: 1503 Kcal

Algorithms used :

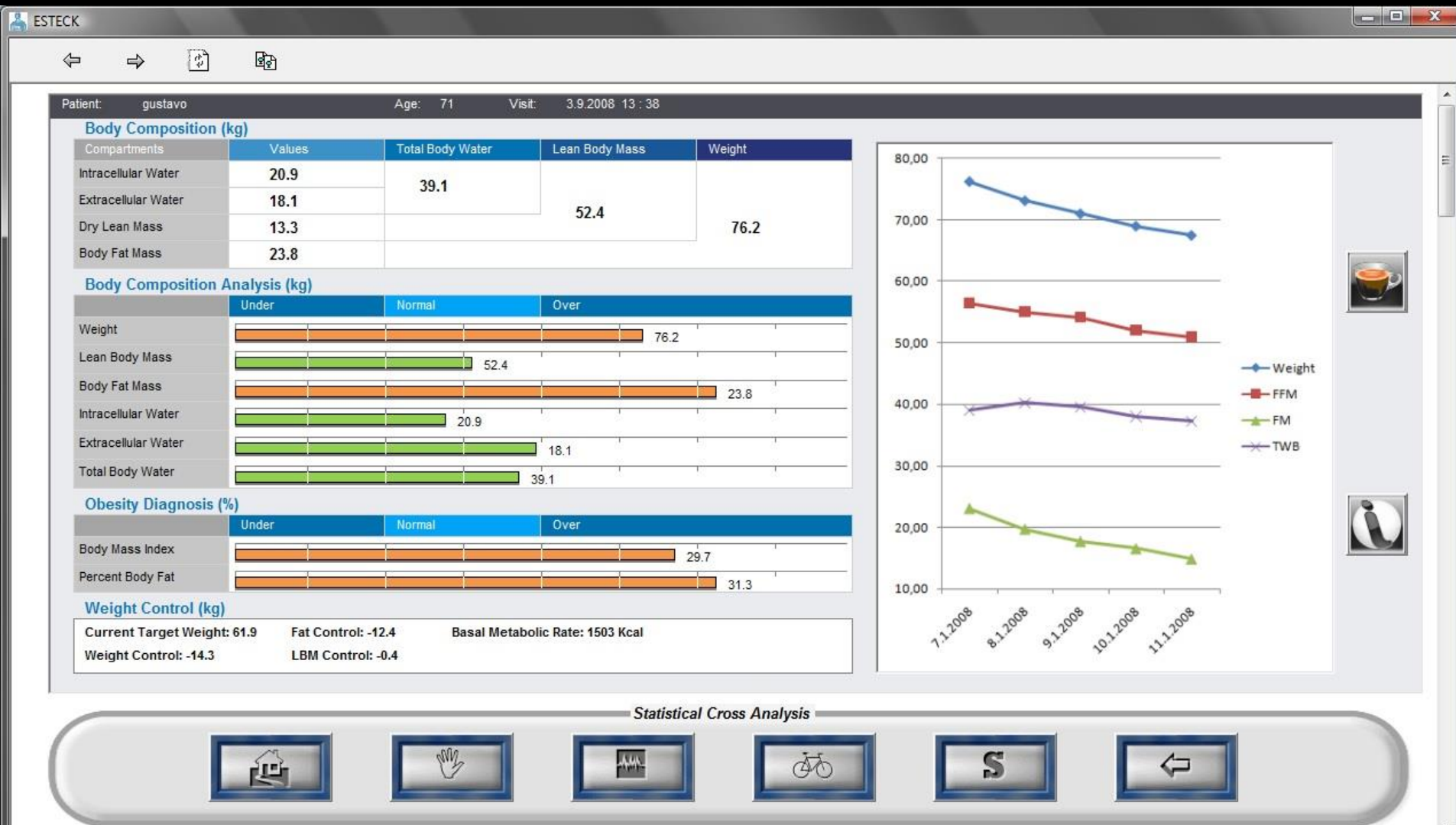
TBW: Lukaski and Bolonchuk 1988
 FFM: Deurenberg et al 1991
 ECW: Sergi G, et al 1994

Actual Impedance:

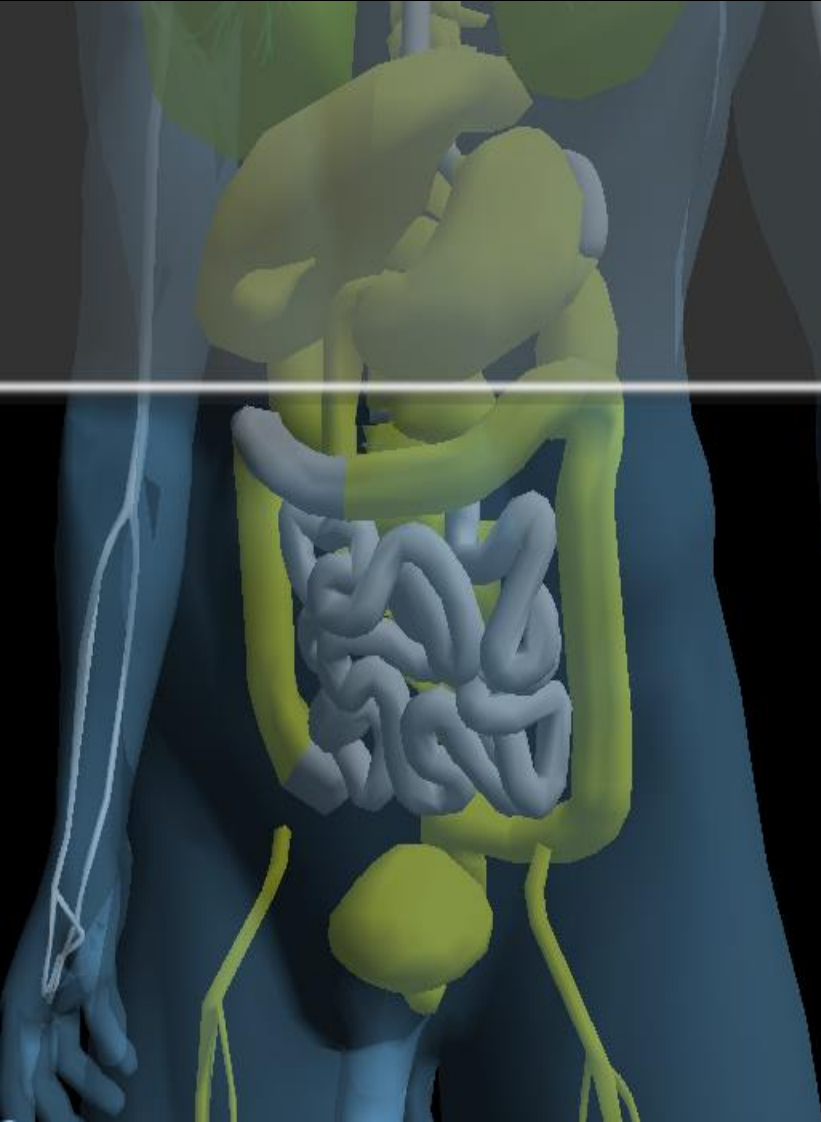
Z = 361.0 Ohm
 R = 360 Ohm Xc = 27 Ohm
 Phase Angle (PA) = 4.3

The calculation of the body composition is made according to the Bioelectrical Impedance Analysis (BIA). BIA in tetra polar mode and mono frequency of 50KHz.

Body Composition follow up



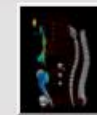
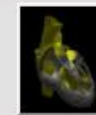
DIGESTIVE SYSTEM INDICATORS



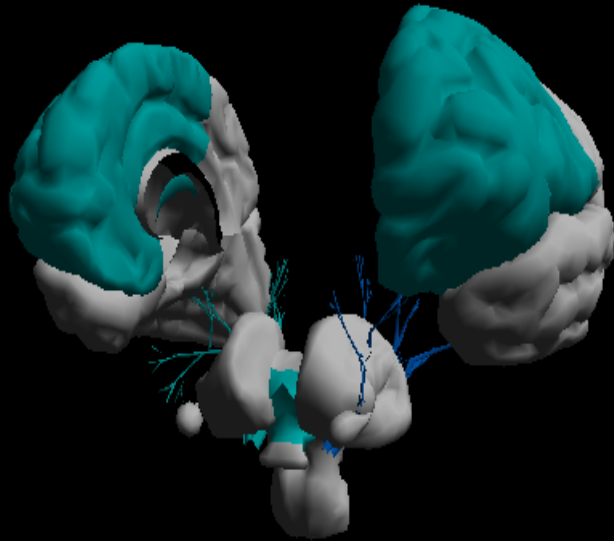
Body System Analysis

Digestive system analysis

| Indicators | Under | Normal | Over | Values | Norms | Units |
|--|-------|--------|------|--------|--------------|------------|
| EIS Indicators | | | | | | |
| <u>Descending Large intestine conductivity</u> | | | | 30.12 | 7.69 - 17.24 | 10-6 S.m-1 |
| <u>Ascending large intestine conductivity</u> | | | | 28.74 | 7.69 - 17.24 | 10-6 S.m-1 |
| <u>Stomach and duodenum conductivity</u> | | | | 18.87 | 7.69 - 17.24 | 10-6 S.m-1 |
| <u>Liver and gallbladder conductivity</u> | | | | 17.24 | 7.69 - 17.24 | 10-6 S.m-1 |
| <u>Pancreas conductivity</u> | | | | 18.02 | 7.69 - 17.24 | 10-6 S.m-1 |
| HRV Indicators | | | | | | |
| <u>Gall bladder : Biliary ducts</u> | | | | 0.46 | 0.50 - 2.00 | I.U |
| <u>Intestine : Peristalsis and tonus</u> | | | | 0.46 | 0.50 - 2.00 | I.U |
| <u>Intestine : Sphincter (rectum)</u> | | | | 0.46 | 0.50 - 2.00 | I.U |
| <u>Stomach : Gastric and pancreatic secretions</u> | | | | 0.46 | 0.50 - 2.00 | I.U |
| <u>Stomach : Digestion</u> | | | | 0.46 | 0.50 - 2.00 | I.U |
| <u>Stomach : Sphincter (duodenum)</u> | | | | 0.46 | 0.50 - 2.00 | I.U |
| <u>Liver : Glycolysis</u> | | | | 0.46 | 0.50 - 2.00 | I.U |



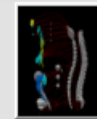
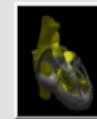
BRAIN INDICATORS



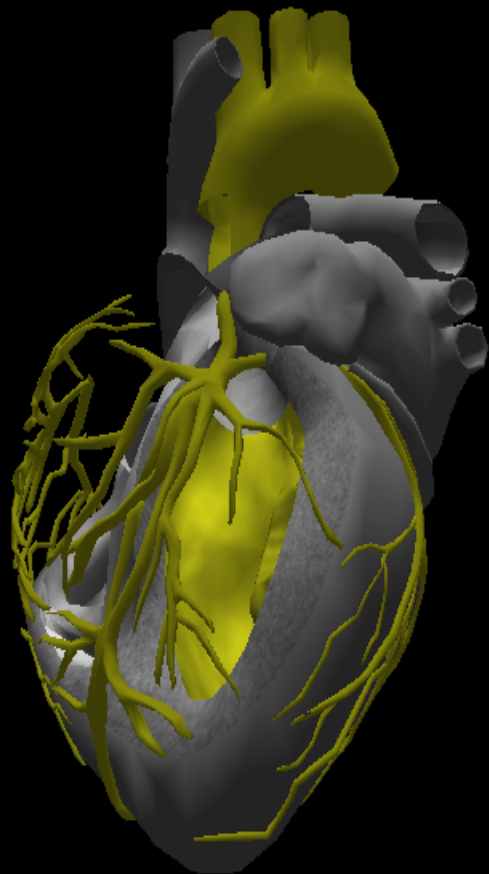
Body System Analysis

Brain system analysis

| Indicators | Under | Normal | Over | Values | Norms | Units |
|--|-------|--------|------|--------|---------------|-----------|
| EIS Indicators | | | | | | |
| <u>Neuronal excitability</u> | | | | 5.400 | 2.000 - 5.000 | ms |
| <u>Cerebral Oxygen level</u> | | | | 76 | 82 - 86 | mm Hg |
| <u>Interstitial cerebral pH</u> | | | | 7.25 | 7.31 - 7.35 | I.U |
| EIS Interstitial Cerebral Neurotransmitters | | | | | | |
| <u>Interstitial cerebral Serotonin</u> | | | | 2.51 | 3.66 - 7.14 | μA |
| <u>Interstitial cerebral Dopamine</u> | | | | 2.11 | 3.66 - 7.14 | μA |
| <u>Interstitial cerebral Catecholamine</u> | | | | 2.28 | 4.76 - 11.90 | 10-6 S.m- |
| HRV Indicators | | | | | | |
| <u>Psycho emotional tension</u> | | | | 30 | 25 - 50 | % |
| <u>Acetylcholine</u> | | | | 47 | 22 - 34 | % |



CARDIOVASCULAR INDICATORS

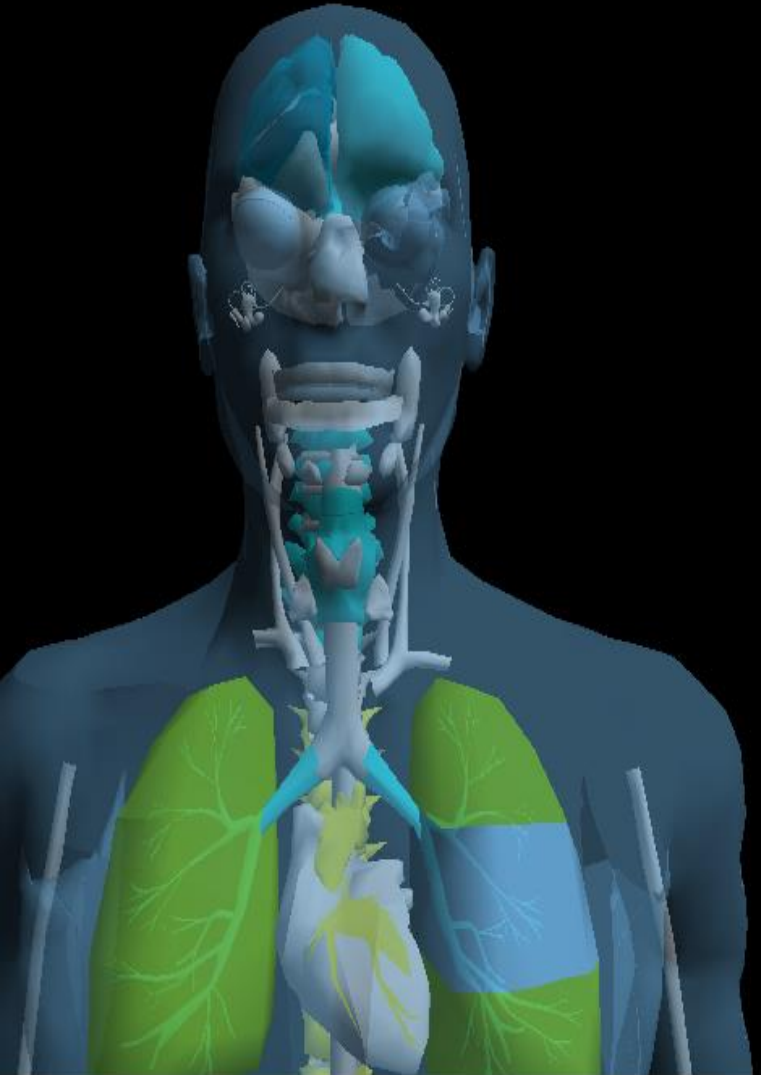


Body System Analysis

Cardiovascular analysis

| Indicators | Under | Normal | Over | Values | Norms | Units |
|---|-------|--------|------|-----------|-----------------|--------|
| EIS Indicators | | | | | | |
| Blood flow | | | | 33.10 | 10.21 - 23.20 | µA |
| Triglycerides | | | | 2.31-5.64 | 1.7 - 2.3 | mmol/l |
| LDL Cholesterol | | | | 3.3.-4.1 | < 2.6 - 3.3 | mmol/l |
| C Reactive Protein | | | | 1 - 3 | < 1 | mg/L |
| HRV Indicators | | | | | | |
| HR Heart Rate | | | | 69 | 68 - 84 | bpm |
| SI Stress Index | | | | 631.87 | 50.00 - 200.00 | IU |
| VLF Very Low Frequency | | | | 30.70 | 25.00 - 50.00 | % |
| LF Low Frequency Baroreceptor reflex activity | | | | 21.86 | 22.00 - 46.00 | % |
| HF High Frequency Parasympathetic system | | | | 47.71 | 22.00 - 34.00 | % |
| MxDm Ratio | | | | 80.00 | 150.00 - 300.00 | ms |
| PP Indicators | | | | | | |
| EEI (Ejection Elastic Index) | | | | 0.25 | 0.40 - 0.80 | I.U |
| DDI (Dicrotic Dilatation Index) | | | | 0.10 | 0.20 - 0.40 | I.U |
| DEI (Dicrotic Elastic Index) | | | | 0.15 | 0.10 - 0.30 | I.U |
| BIA Indicators | | | | | | |
| Est mass | | | | 21.2 | 10.0 - 20.0 | % |

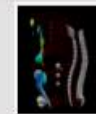
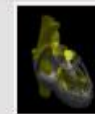
HORMONAL INDICATORS



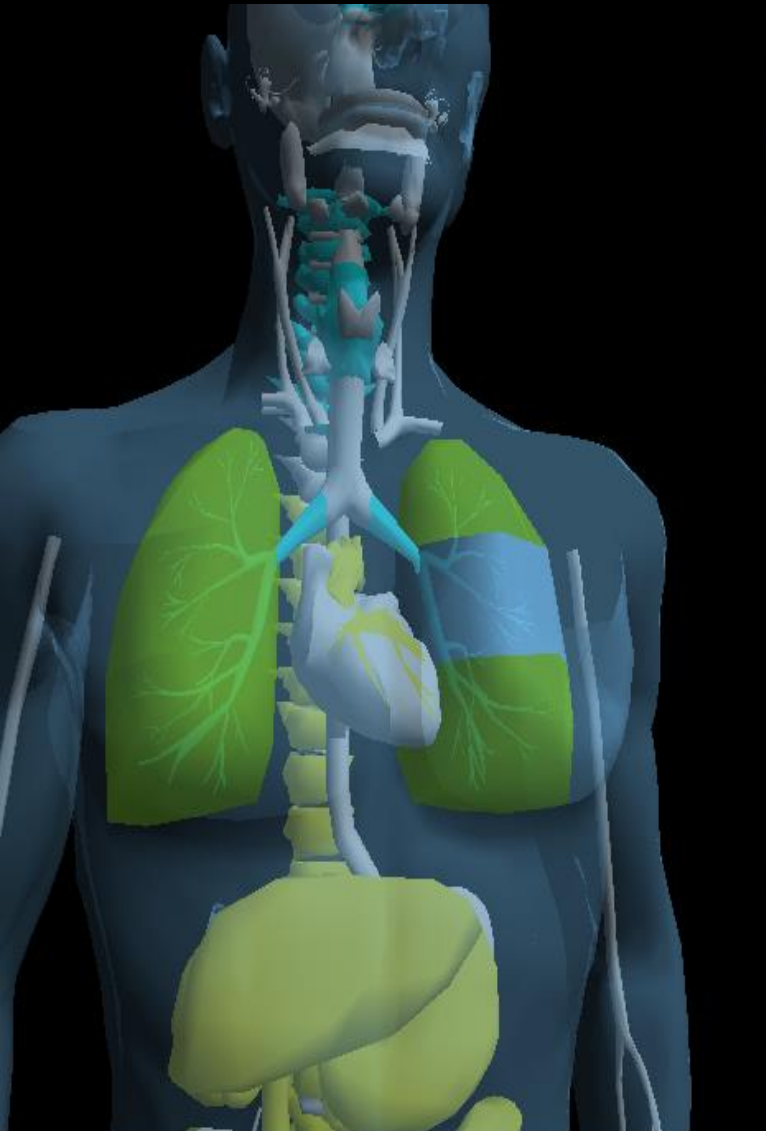
Body System Analysis

Hormonal system analysis

| Indicators | Under | Normal | Over | Values | Norms | Units |
|---|-------|--------|------|---------|---------------|--------|
| EIS Indicators | | | | | | |
| <u>Interstitial TSH</u> | | | | 0.3 - 2 | 0 - 3 | mIU /L |
| interstitial DHEA | | | | 10.21 | 10.21 - 23.20 | μA |
| Interstitial PTH | | | | 15.80 | 10.21 - 23.20 | μA |
| <u>Interstitial Testosterone</u> | | | | 8 - 15 | 8 - 38 | pmol/L |
| HRV Indicators | | | | | | |
| <u>Adrenomedullary hormone production</u> | | | | 21 | 22 - 46 | % |
| <u>interstitial Cortisol</u> | | | | 160 | 110 - 390 | nmol/L |
| <u>interstitial ACTH</u> | | | | 12.0 | 3.0 - 15.0 | nmol/L |
| <u>Leptin</u> | | | | 12.0 | 10.0 - 15.0 | ng/ml |
| BIA Indicators | | | | | | |
| interstitial ADH | | | | 15.80 | 10.21 - 23.20 | μA |
| Interstitial aldosterone | | | | 15.20 | 10.21 - 23.20 | μA |



RESPIRATORY SYSTEM INDICATORS



Body System Analysis

Respiratory system analysis

| Indicators | Under | Normal | Over | Values | Norms | Units |
|------------------------|-------|--------|------|--------|---------------|---------------|
| EIS Indicators | | | | | | |
| Bronchi Conductivity | | | | 7.14 | 7.69 - 17.24 | 10-6 S.m-1 |
| Lung conductivity | | | | 18.87 | 7.69 - 17.24 | 10-6 S.m-1 |
| SpO2 Indicators | | | | | | |
| SpO2 | | | | 97.00 | 94.50 - 96.50 | % |
| PaCO2 | | | | 30.00 | 35.00 - 45.00 | mmHg |
| HRV Indicators | | | | | | |
| Respiratory rate | | | | 13.20 | 12.00 - 20.00 | breaths per r |



GENERAL METABOLIC INDICATORS



Body System Analysis

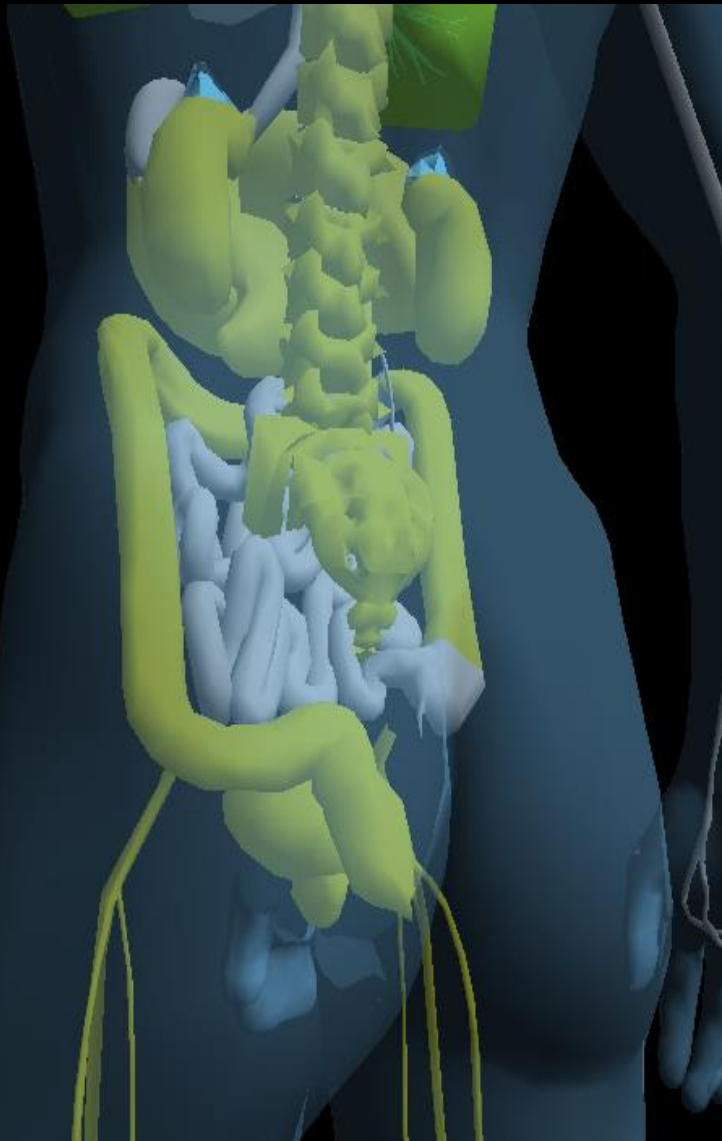
General metabolic functions analysis

| Indicators | Under | Normal | Over | Values | Norms | Units |
|---------------------------------------|-------|--------|------|--------|---------------|------------------------------------|
| EIS Indicators | | | | | | |
| Ionograms | | | | | | |
| <u>interstitial Na+</u> | | | | 133.0 | 121.6 - 129.0 | mmol/L |
| <u>interstitial K+</u> | | | | 2.90 | 3.00 - 3.40 | mmol/L |
| <u>interstitial Cl-</u> | | | | 106.0 | 107.5 - 115.0 | mmol/L |
| <u>interstitial Ph</u> | | | | 1.35 | 1.60 - 2.70 | mmol/L |
| <u>interstitial Ca++</u> | | | | 1.42 | 1.45 - 1.63 | mmol/L |
| <u>interstitial Mg</u> | | | | 0.65 | 0.40 - 0.56 | mmol/L |
| <u>interstitial H+</u> | | | | 37.26 | 42.60 - 51.30 | mmol/L |
| Immunity | | | | | | |
| <u>Thymus conductivity</u> | | | | 4.27 | 7.69 - 17.24 | 10 ⁻⁶ S.m ⁻¹ |
| Interstitial Acid Base Balance | | | | | | |
| ipH | | | | 7.43 | 7.29 - 7.37 | I.U |
| iHCO3- | | | | 31.41 | 22.00 - 26.00 | mEq/L |
| iPCO2 | | | | 48.76 | 41.00 - 51.00 | mmHg |
| i[H+] | | | | 37.26 | 42.60 - 51.30 | nM/L |
| iSBE | | | | 7.00 | -2.00 - 2.00 | |
| Lipid balance | | | | | | |

Navigation and visualization controls:

- A central circular control panel with directional arrows and a central square.
- A grid of eight small 3D anatomical icons representing different body systems.
- A large blue button with a left-pointing arrow.

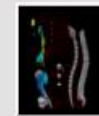
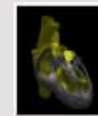
UROGENITAL AND RENAL INDICATORS



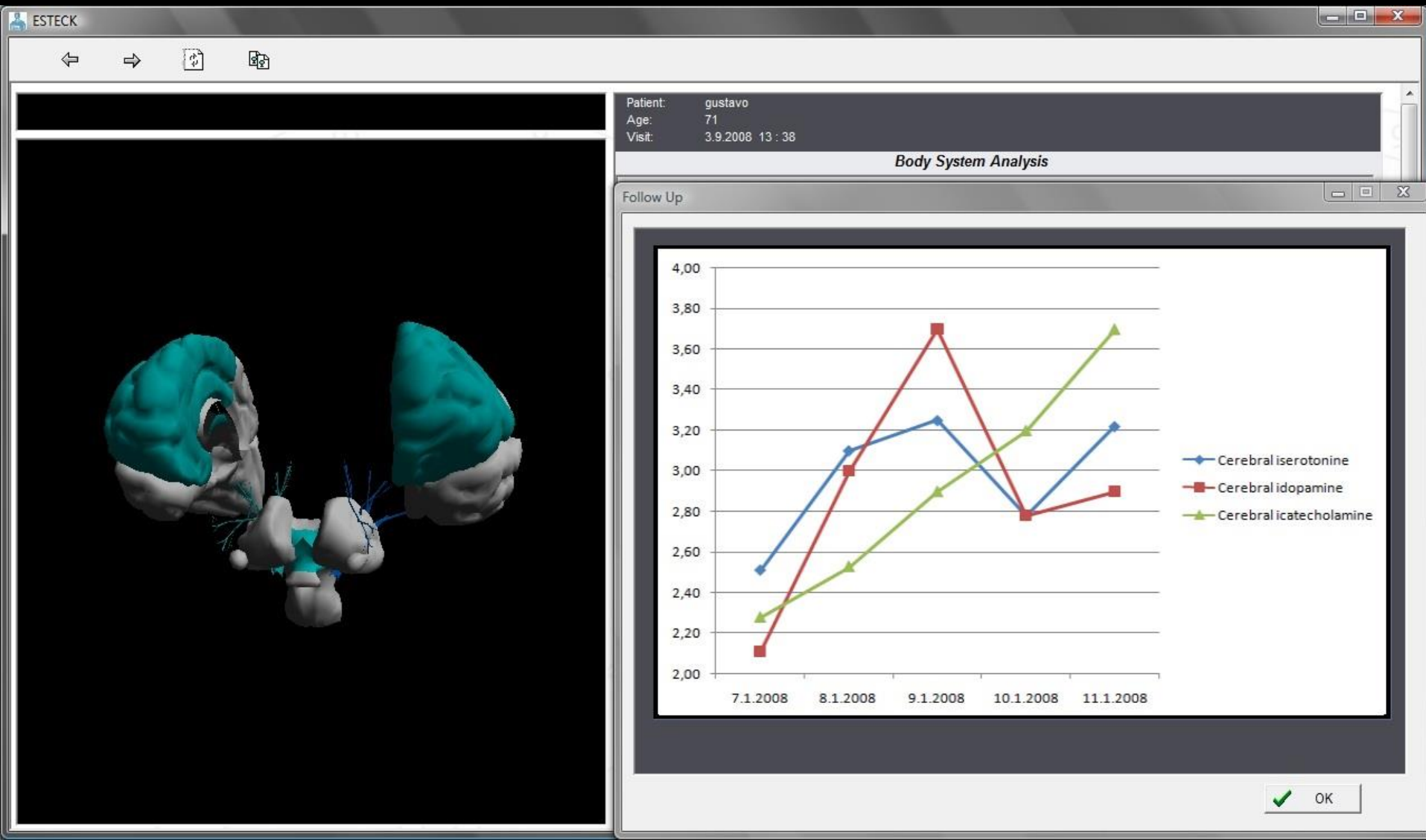
Body System Analysis

Uro genital and renal system analysis

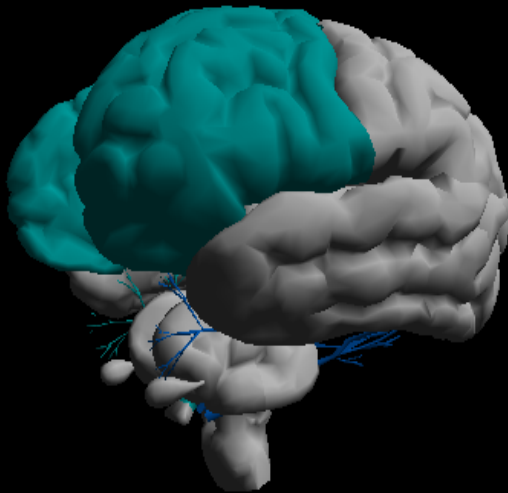
| Indicators | Under | Normal | Over | Values | Norms | Units |
|--|-------|--------|------|--------|---------------|------------|
| EIS Indicators | | | | | | |
| <u>Prostate conductivity</u> | | | | 34.97 | 7.69 - 17.24 | 10-6 S.m-1 |
| <u>Bladder conductivity</u> | | | | 30.12 | 7.69 - 17.24 | 10-6 S.m-1 |
| <u>Kidney conductivity</u> | | | | 30.12 | 7.69 - 17.24 | 10-6 S.m-1 |
| <u>Urea</u> | | | | > 6.5 | < 6.4 | mmol/l |
| <u>Creatinine</u> | | | | > 116 | < 115 | mmol/l |
| <u>PSA</u> | | | | > 6 | < 1.69 | mg/l |
| HRV Indicators | | | | | | |
| <u>Angiotensin renin system activity</u> | | | | 30.70 | 25.00 - 50.00 | % |
| BIA Indicators | | | | | | |
| Total Body Water | | | | 51.3 | 42.6 - 52.6 | % |
| Extracellular Water | | | | 23.8 | 14.0 - 24.0 | % |
| Intracellular Water | | | | 27.5 | 23.6 - 33.6 | % |



Follow up of the Cerebral neurotransmitters



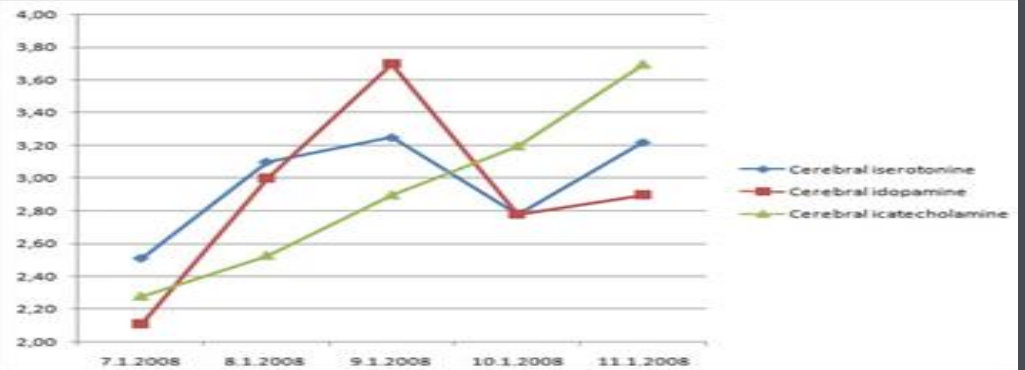
Medications monitoring indicators



ES Tech MT Drugs monitoring






Monitoring of antidepressant treatment (SSRI)

| Indicators | Under | Normal | Over | Values | Norms | Units |
|--|-------|--------|------|--------|--------------|------------|
| <u>Interstitial cerebral Serotonin</u> | | | | 2.51 | 3.66 - 7.14 | μA |
| <u>Interstitial cerebral Dopamine</u> | | | | 2.11 | 3.66 - 7.14 | μA |
| <u>Interstitial cerebral Catecholamine</u> | | | | 2.28 | 4.76 - 11.90 | 10-6 S.m-1 |
| <u>Acetylcholine</u> | | | | 47 | 22 - 34 | % |









Medications monitoring indicators

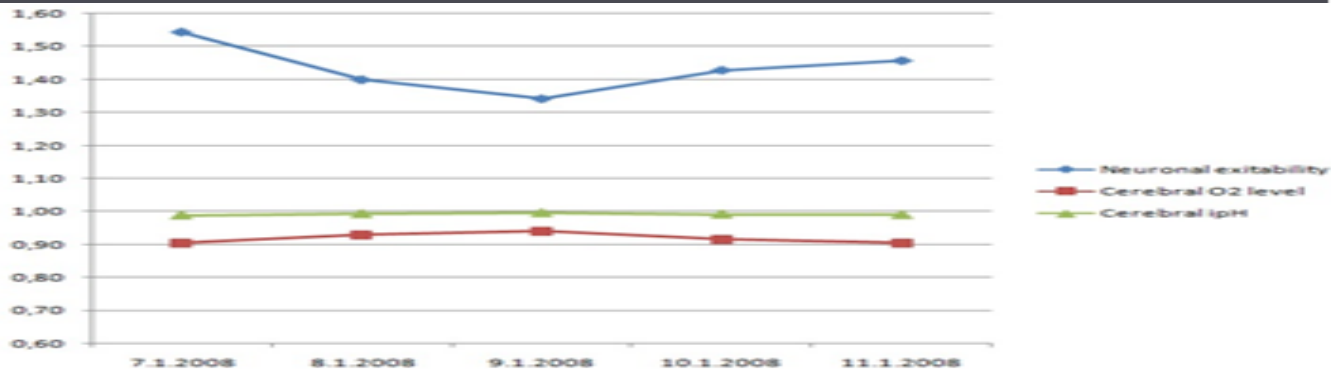
Monitoring of the Beta blockers treatment

| Indicators | Under | Normal | Over | Values | Norms | Units |
|--|---|---|------|--------|---------------|------------|
| ESG 2+4+15+17 |  | | | 2.73 | 7.69 - 17.24 | 10-6 S.m-1 |
| <u>EEI (Ejection Elastic Index)</u> |  | | | 0.25 | 0.40 - 0.80 | I.U |
| <u>HR Heart Rate</u> | |  | | 69 | 68 - 84 | bpm |
| <u>Adrenomedullary hormone production</u> |  | | | 21 | 22 - 46 | % |
| <u>LF Low Frequency Baroreceptor reflex activity</u> |  | | | 21.86 | 22.00 - 46.00 | % |

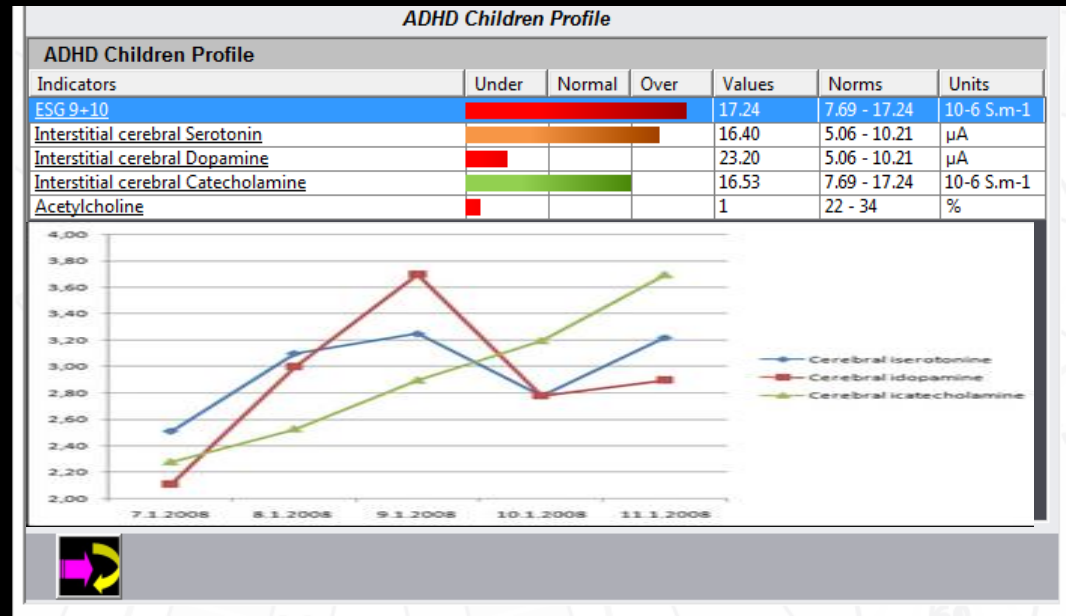
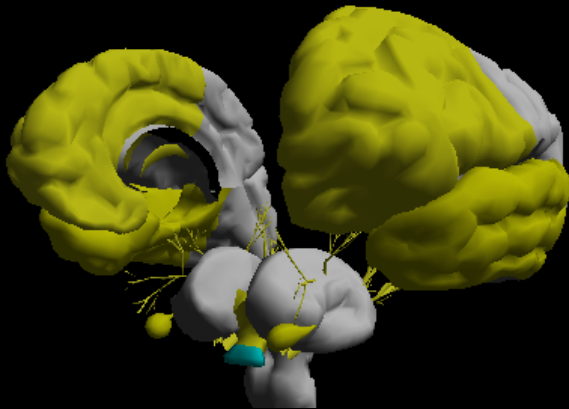
ES Teck MT Drug's monitoring

Monitoring of CEI treatment

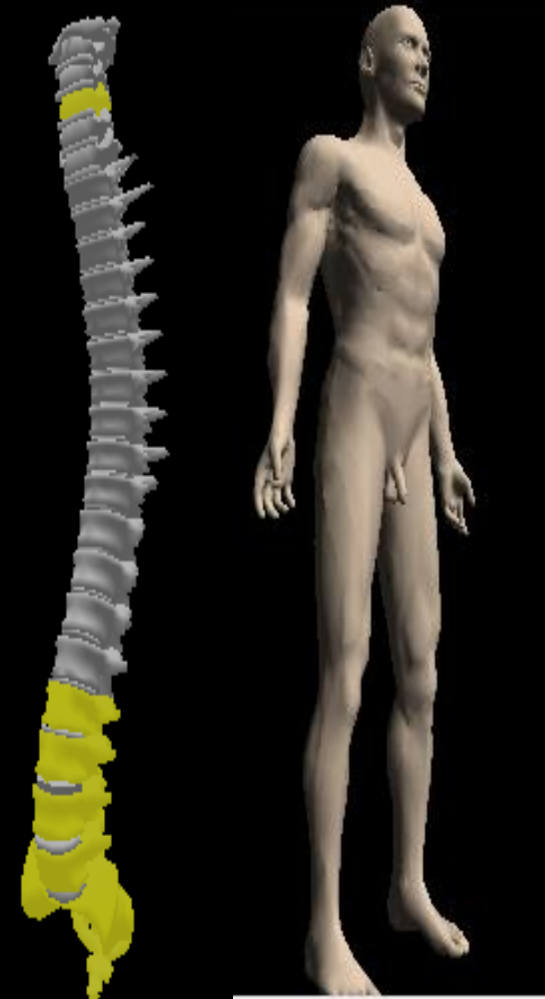
| Indicators | Under | Normal | Over | Values | Norms | Units |
|--|---|---|------|--------|---------------|------------|
| ESG 6+8+19+21 |  | | | 28.74 | 7.69 - 17.24 | 10-6 S.m-1 |
| <u>EEI (Ejection Elastic Index)</u> |  | | | 0.25 | 0.40 - 0.80 | I.U |
| <u>HR Heart Rate</u> | |  | | 69 | 68 - 84 | bpm |
| <u>VLF Very Low Frequency</u> | |  | | 30.70 | 25.00 - 50.00 | % |
| <u>LF Low Frequency Baroreceptor reflex activity</u> |  | | | 21.86 | 22.00 - 46.00 | % |
| <u>HF High Frequency Parasympathetic system</u> |  | | | 47.71 | 22.00 - 34.00 | % |



ADHD Children profile and diagnosis in adjunct with the clinical context



Chiropractor Indicators and monitoring treatment



Advices for Lifestyle and exercises and monitoring



ES Teck Lifestyle

| Lifestyle Indicators | | | | | | |
|---------------------------|-------|--------|------|--------|---------------|------------|
| Indicators | Under | Normal | Over | Values | Norms | Units |
| EIS Indicators | | | | | | |
| <u>ESG 9+10</u> | | | | 23.26 | 7.69 - 17.24 | 10-6 S.m-1 |
| <u>ATP production</u> | | | | 51 | 45 - 55 | % |
| <u>Insulin resistance</u> | | | | 0 | < 5 | % |
| <u>interstitial Na+</u> | | | | 131.0 | 121.6 - 129.0 | mmol/L |
| <u>interstitial K+</u> | | | | 2.95 | 3.00 - 3.40 | mmol/L |
| <u>interstitial Cl-</u> | | | | 106.7 | 107.5 - 115.0 | mmol/L |
| <u>interstitial Ph</u> | | | | 2.85 | 1.60 - 2.70 | mmol/L |
| <u>interstitial Ca++</u> | | | | 1.43 | 1.45 - 1.63 | mmol/L |
| <u>interstitial Mg</u> | | | | 0.32 | 0.40 - 0.56 | mmol/L |
| <u>interstitial H+</u> | | | | 47.84 | 42.60 - 51.30 | mmol/L |
| BIA Indicators | | | | | | |
| <u>Fat mass</u> | | | | 25.8 | 10.0 - 20.0 | % |
| <u>Fat free mass</u> | | | | 91.5 | 79.0 - 89.0 | % |
| <u>Total Body Water</u> | | | | 49.5 | 55.6 - 65.6 | % |
| <u>Body Mass Index</u> | | | | 28.9 | 18.5 - 24.5 | |

← ||| →

Advices for Lifestyle and exercises and monitoring

NOT RECOMMENDED FOODS

Vegetables

Egg Plant, Avocado

Animal protein

Salami , Frankfurters, Well-hung game, Marinated herring, Beef liver, Brain, Lard, Sausages, Bacon, Goose

Dairy products

Mozzarella, Margarine, Fresh cream, Cheese

Carbohydrates

Brewer's yeast, Sodium glutamate (often used in Chinese cooking), Chocolate, Ice-cream, Honey, Jam, Cocoa, Jam tart

Fats

Fried food, Mayonnaise

Drinks

Sweetened Cola Drinks

Oily foods

Almonds, Pistachios, Hazel nuts, Walnuts, Pine nuts

Fruit

Bananas, Pineapple, Dates , Fruit in syrup, Candied fruit, Dried fruit, Fruit jelly, Coconut

RECOMMENDED FOODS

Vegetables

Artichokes, String beans, Celery root, Leeks, Fennel, Dandelion

Drinks

Chicory

Fruit

2 fruits per day max

Herbs

Parsley

MICRONUTRITION

Trace elements

Magnesium

Plant therapy

Poppy ,Passion flower ,Aubeline ,Hawthorn ,Garlic ,Cypress ,Chestnut tree ,Horsetail

COOKING METHODS

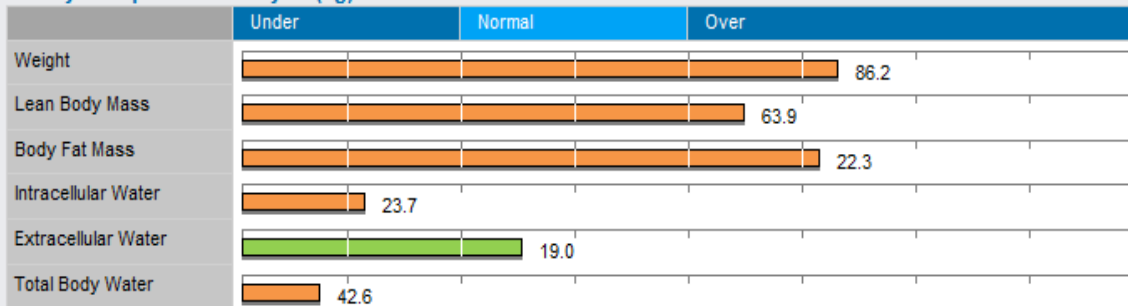
- Steaming is to be preferred to all other methods.
- For cooking food: olive, peanut or palm oil, without ever allowing it to smoke.
- For improved carotenoid digestion, cook: carrots, tomatoes, broccoli, spinach then add olive or colza oil after cooking.
- To prepare fish, marinate in lemon juice, wine or oil, then steam or poach in stock
- Do not burn or carbonize meat and throw away the gray.

Advices for Lifestyle and exercises and monitoring

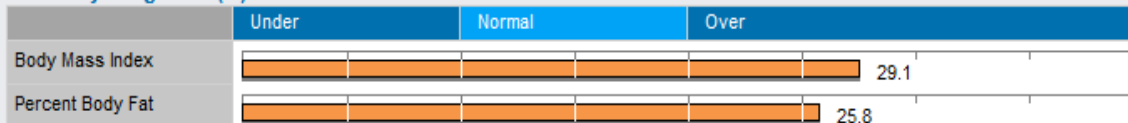
Body Composition (kg)

| Compartments | Values | Total Body Water | Lean Body Mass | Weight |
|---------------------|--------|------------------|----------------|--------|
| Intracellular Water | 23.7 | 42.6 | 63.9 | 86.2 |
| Extracellular Water | 19.0 | | | |
| Dry Lean Mass | 21.3 | | | |
| Body Fat Mass | 22.3 | | | |

Body Composition Analysis (kg)



Obesity Diagnosis (%)



Weight Control (kg)

Current Target Weight: 69.9 Fat Control: -9.3 Basal Metabolic Rate: 2003 Kcal
 Weight Control: -16.3 LBM Control: -5.3

Daily Activity Level:

Very light: stay at home, no activity

Overweight

Height: 172.7 cm

Weight : 86.2 kg

Fat free mass: 63.9 kg

Fat mass: 22.3 kg (25.8%)

TBW: 42.6 kg (49.5%)

Extracellular Water: 18.97 kg (-2.2%)

Intracellular Water: 23.67 kg (-9.1%)

Basal metabolic rate / 24 Hours: 2003 Kcal

Algorithms used :

TBW: Davies et al 1988

FFM: Deurenberg et al 1991

ECW: Sergi G, et al 1994

Actual Impedance:

Z = 417.4 Ohm

R = 415 Ohm Xc = 45 Ohm

Phase Angle (PA) = 6.2

The calculation of the body composition is made according to the Bioelectrical Impedance Analysis (BIA). BIA in tetra polar mode and mono frequency of 50KHz.

Statistical Cross Analysis

