

**The Five Ions Analysis Manual
(for Pulse Metabolis Analysis v 2.3)**

by Sergey Fedotov



Vladivostok

Russia

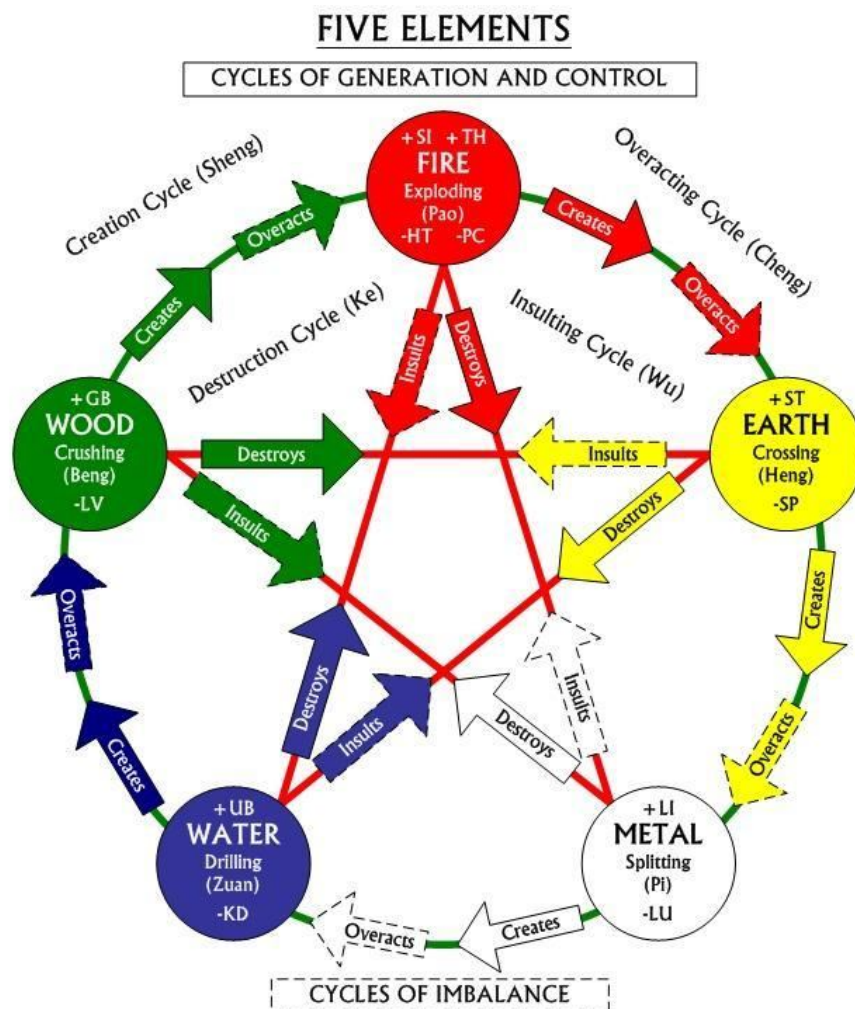
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1. Introduction.

In Traditional Chinese Medicine together with the theory Yin-Yang (describing processes of irradiation and absorption of Energy) the Law of Wu-Xing exist.

The main meaning of hieroglyph “Xing” is verbal, functional. Literally it means “Five movements”, “Five shifts”, “Five make steps”. In traditional Chinese Medicine these five substances are described by symbols as follow: Wood, Fire, Earth, Metal, and Water. By other words, five substances are described energy processes of irradiation and absorption of energy at time scale.

The main peculiarity of Wu-Xing is fact that any regular process is closed cycle of order of five processes. These Five processes have mutual interrelation at two stages – mutual stimulation and mutual suppression.



The whole system (organism) is divided into 2 subsystems:

- Yang (in order of Wu-Xing cycle):

Gall bladder (GB) → Small Intestine (SI) → Stomach (ST) → Large Intestine (LI) → Urinary Bladder (UB) → Triple Energizer (TE, TH).

Pulse Academy

58 Partizansky pr-t, Vladivostok, 690002, Russia

www.pulse-academy.org, e-mail: pulseacademy@yahoo.com, Phone 7-4232-452033

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- Yin (in order of Wu-Xing cycle):

Liver (LR, LV) → Heart (HT) → Spleen (SP) → Lungs (LU) → Kidneys (KI, KD) → Pericardium (PC).

2. Correlation of chemical elements with the Five Elements.

Chemical reactions in our bodies also have the Five phases structure.

The Five phases structure among chemical elements in living organism was indirectly proved by research work of Russian doctor Alexander Samohotsky (1890-1986)(***).

*** - The dissertation copy “Experience of searching of treatment regularity” (1946) was deposited in Research Institute of Healthcare Ministry of the USSR No D-14130-87, the abstract was printed in “Medical abstracts journal” at 1987, No 11, chapter IX, publication No 1754.

He was found only **Five** the most important factors: concentration in blood of ions of sodium (Na⁺), calcium (Ca⁺⁺), magnesium (Mg⁺⁺), potassium (K⁺) and reduction-oxidation (Red Ox) potential. The RedOx potential has very close connection to pH balance and we can make a conclusion the fifth factor is concentration of hydrogen (H⁺) ions. Dr. Samohotsky had made a lot of clinical experiments and by his method almost all his hard patients were treated to the health state. Also it was revealed there are no infections can penetrate in the body if the blood has balanced concentration of ions of Five Factors. Doctor Samohotsky had not used sterilized springs and scalpels and he horrified colleagues and patients by this fact.

ANY disease could be treated by Dr. Samohotsky by injection of mixture of above mentioned factors on the base of blood analysis of concentration of ions of Na⁺, Ca⁺⁺, Mg⁺⁺, K⁺ and H⁺ only. The injections had made to balance Five Factors to proper concentration and patient recovered very fast (during 3-10 injections).

3. Translation factors of Dr. Samohotsky to Oriental system of the Five Elements.

Five processes form stable and relatively independent on environment object. It means the object can not exist apart of five processes. If any of five processes is stopped, the whole object loses off the entity, disappear as a whole thing.

Correlations of the Five processes (Phases, Elements) with different processes in nature are described in Traditional Chinese philosophy by the next table:

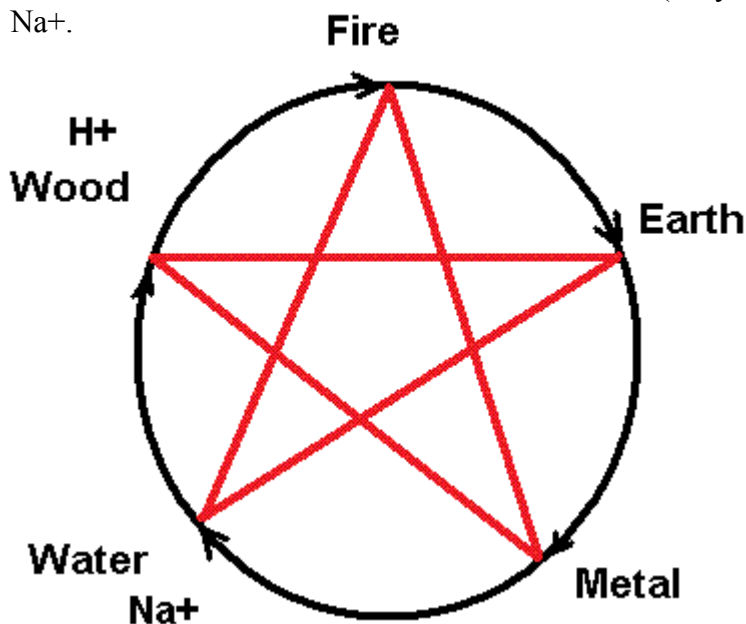
	Wood	Fire	Earth	Metal	Water
Orientation	East	South	Middle	West	North
Season	Spring	Summer	Late Summer	Autumn	Winter
Climate	Wind	Summer Heat	Dampness	Dryness	Cold
Cultivation	Germinate	Grow	Transform	Reap	Store
Yin Organ	Liver	Heart	Spleen	Lung	Kidney

Yang Organ	Gall Bladder	Small Intestine	Stomach	Large Intestine	Bladder
Orifice	Eye	Tongue	Mouth	Nose	Ear
Tissues	Tendons	Vessels	Muscles	Skin & Hair	Bones
Emotions	Anger	Joy	Pensiveness	Grief	Fear
Colour	Blue/ Green	Red	Yellow	White	Black
Taste	Sour	Bitter	Sweet	Pungent	Salty
Voice	Shout	Laugh	Sing	Cry	Groan

Let's try on the base of above mentioned information to associate factors of Dr. Samokhotsky with the Five Elements system.

It is more easily to confront Red Ox potential with Wood Element (equivalent of sour taste to excess of hydrogen's ions H⁺).

The second factor is correlation of Water Element (salty taste) with concentration of ions Na⁺.



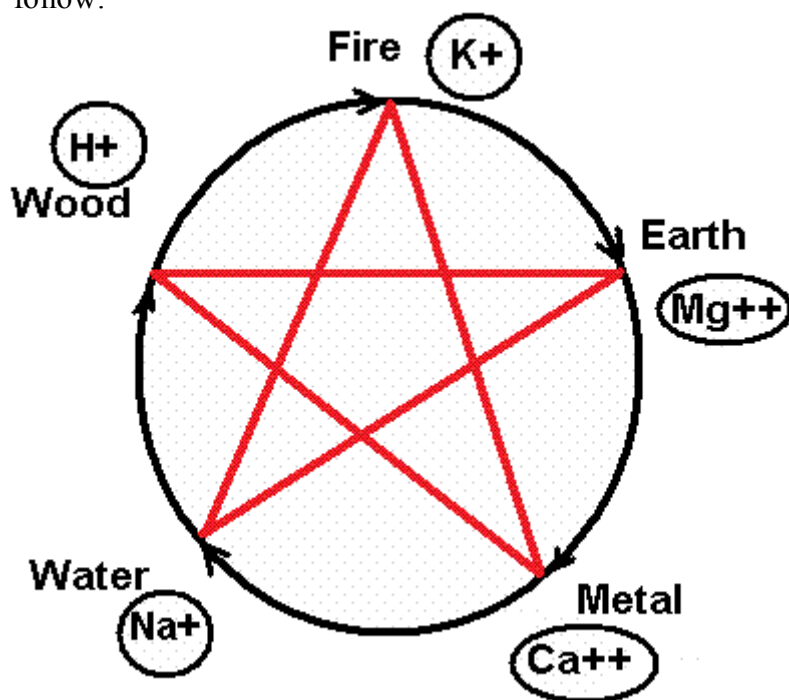
To find more bases to connect factors of Dr. Samokhotsky with other Elements we should use information from acupuncture theory, where acupuncture channels are associated into 6 segments:

- Tai Yin – Lungs and Spleen, Elements of Metal and Earth;
- Shao Yin – Heart and Kidneys, Elements of Water and Fire;
- Jue Yin – Liver and Pericardium, Elements Wood and Fire-Minister (Fire minister is cumulative Element which present Five Elements before environment);
- Shao Yang – Gall Bladder and Triple Burner, Elements Wood and Fire-Minister;
- Tai Yang – Urinary Bladder and Small Intestine Elements of Water and Fire;
- Yang Ming – Large Intestine and Stomach, Elements of Metal and Earth.

Here we can see interrelation between Water and Fire and Metal and Earth Elements. What types of interrelations are possible? From biophysics of Western medicine we know about theory of ionic sodium-potassium pump. Thus, we can associate the Na^+ concentration with Water (it likes salt taste) and concentration of K^+ ions with Fire Element on the base of second part of ionic Na^+ and K^+ pump.

The rest two factors Ca^{++} и Mg^{++} we should divide between Metal and Earth Element. In accordance with above mentioned table the Earth is connected with dampness, but Metal with dryness. From general medical practice it is well known fact that medication by Ca^{++} cause constipation (dryness), but high dosage of Mg^{++} lead to diarrhea. Thus, we can associate Ca^{++} with Metal Element and Mg^{++} with Earth Element.

As a result, the factors of Dr. Samokhotsky will be placed at Wu-Xing cycle in order as follow:



The six chemical substance in TCM we associate with Element of Fire Minister (which is paired to Fire Element). The ion of Fire Minister element is OH^- ion, the second part of Water molecule together with H^+ ions. As you know the body consists of 85% of water and main storage of water is represented by blood (as Chinese doctors say – the Fire element has no concrete place).

Thus, we found six ions and they are paired as follow:

Water – Fire – Na^+ , K^+ ;

Earth – Metal – Mg^{++} , Ca^{++} ;

Wood – Fire Minister – H^+ , OH^-

Please note, these ions are represented in sea water (where from we all gone out) at the same concentration as in our blood vessels. We can name these ions essential.

4. Dynamic changes of concentration of essential ions.

The Pulse Academy is developing the conception of 2 waves of metabolic energies, which moves in the body in opposite directions.

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www.pulse-academy.org, e-mail: pulseacademy@yahoo.com, Phone 7-4232-452033

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As far as the whole system (organism) is divided into 2 subsystems, the movement of waves may be represented as cycle of compression and decompression of energies. Please see at the table below.

a. Compression of Yang systems and decompression of Ying systems:

Time axis


Yang meridians at Yang conditions	Gall bladder	Small Intestine	Stomach	Large Intestine	Urinary Bladder	Triple Energizer
Active ion in Yang system	H+	K+	Mg ⁺⁺	Ca ⁺⁺	Na+	OH-
Active ion in Yin system	OH-	Na+	Ca ⁺⁺	Mg ⁺⁺	K+	H+
Yin meridians at Yin conditions	Liver	Heart	Spleen	Lungs	Kidneys	Pericardium

b. Compression of Yin systems and decompression of Yang systems:

Time axis


Yang meridians at Yin conditions	Gall bladder	Small Intestine	Stomach	Large Intestine	Urinary Bladder	Triple Energizer
Active ion in Yang system	OH-	Na+	Ca ⁺⁺	Mg ⁺⁺	K+	H+
Active ion in Yin system	H+	K+	Mg ⁺⁺	Ca ⁺⁺	Na+	OH-
Yin meridians at Yang conditions	Liver	Heart	Spleen	Lungs	Kidneys	Pericardium

Here we can see inner relation inside Yin and Yang meridians of the sole Element is the same as relation inside acupuncture segments as we have mentioned above:

Water – Fire – Na⁺, K⁺;

Earth – Metal – Mg⁺⁺, Ca⁺⁺;

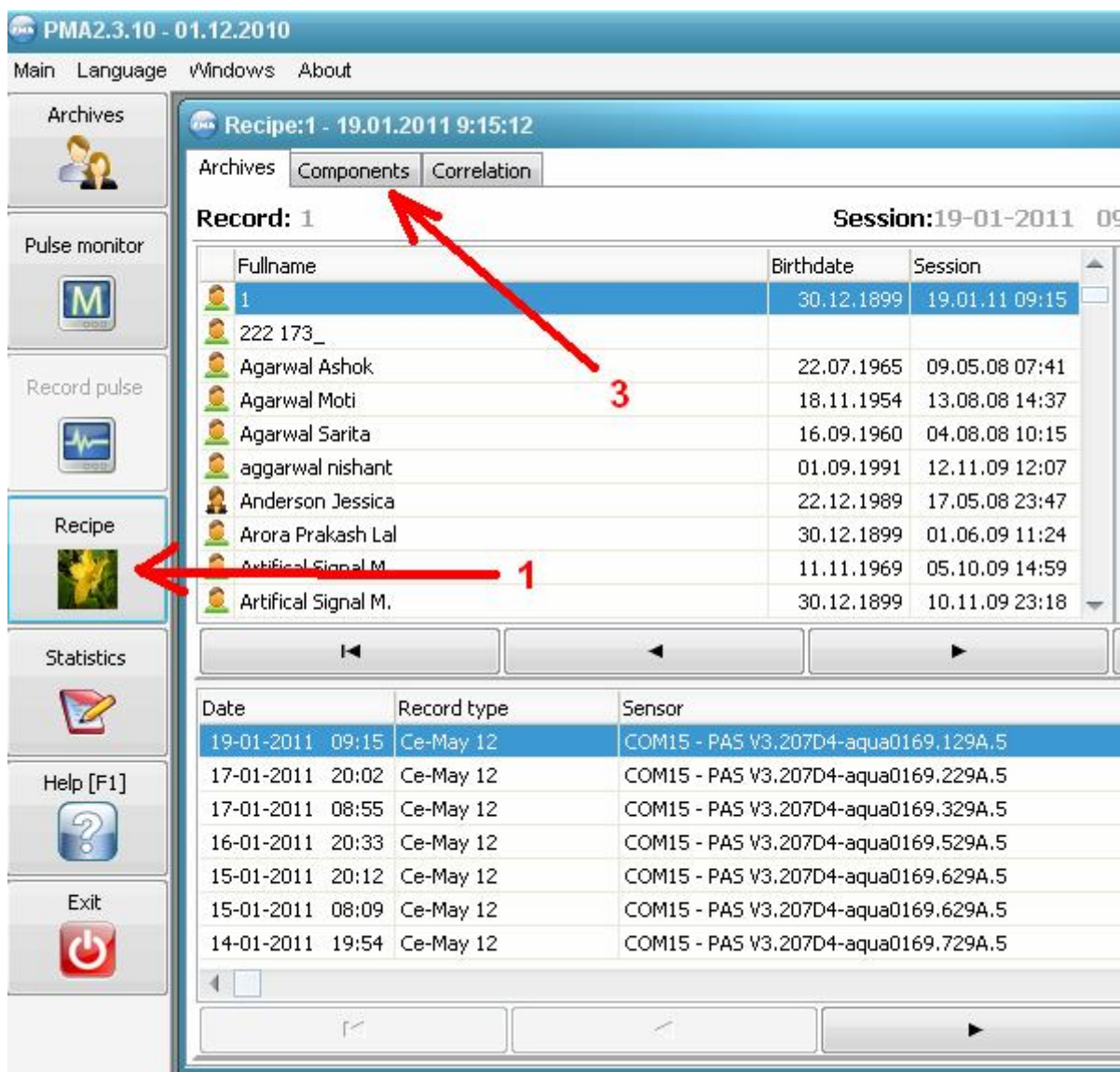
Wood – Fire Minister – H⁺, OH⁻

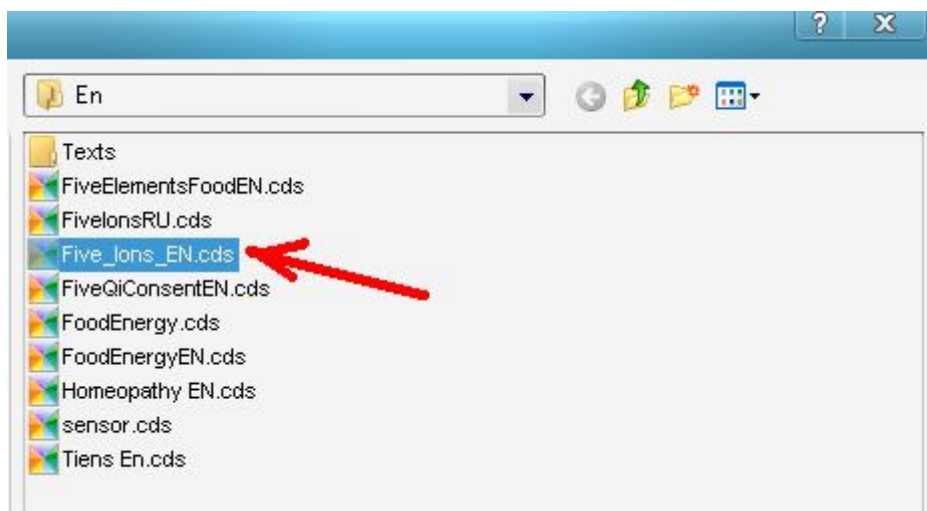
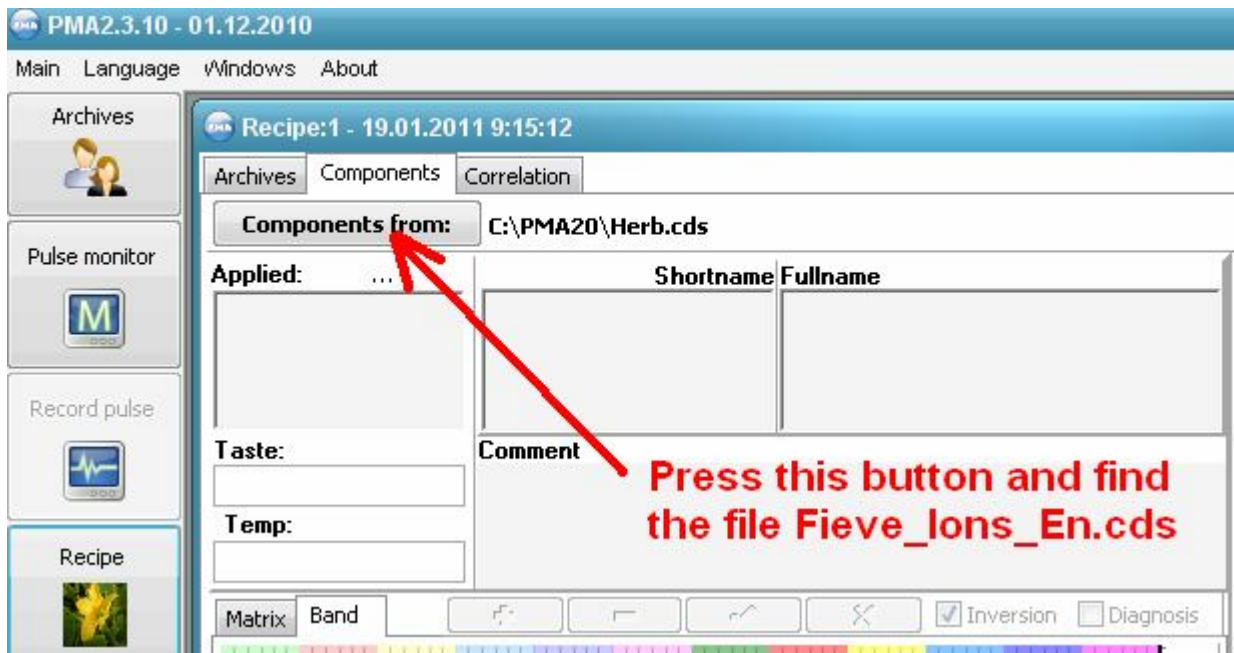
The moment of transition from Yang activity of Yang systems to Yang Activity of Yin systems (and vice versa) is a very short period and it is characterized by fast inversion of pH balance of blood near the proper systems.

The jump to maximal acid reaction (excess of H⁺ ions) is a beginning of Yang wave (wave of decompression, irradiation of energy, catabolic phase), at the same time the blood near opposite systems falls into alkaline reaction and these systems starts moving of Yin wave (compression, absorbtion of energy, anabolic phase).

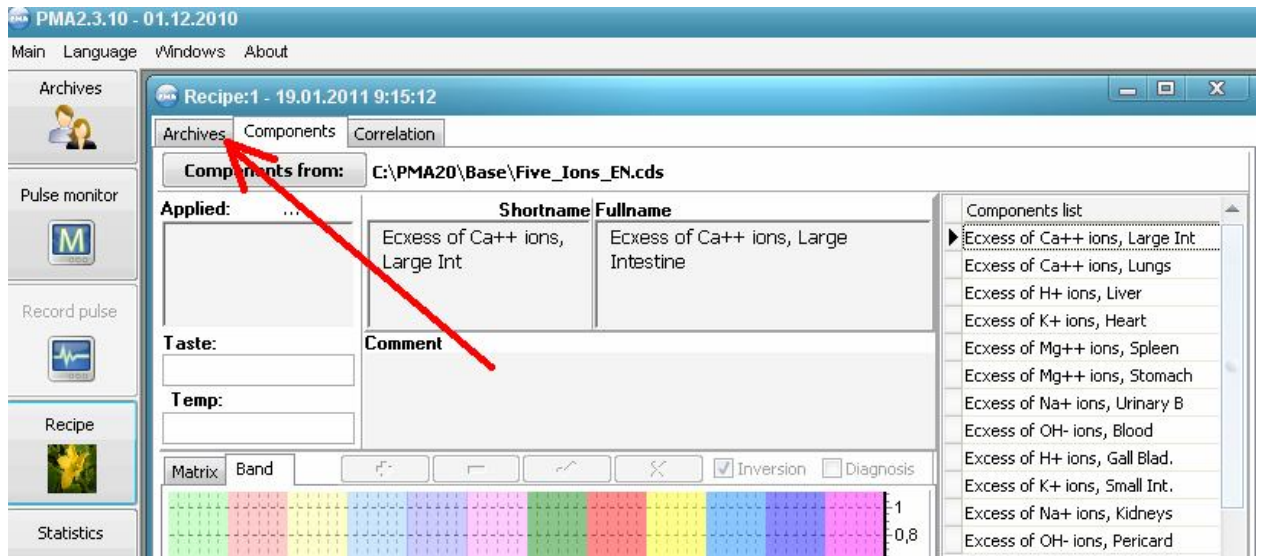
5. The five ions analysis in the software PMA 2.3.

Use the section Recipe(1) and select Component (2) from the file Five_Ions_EN.csd:

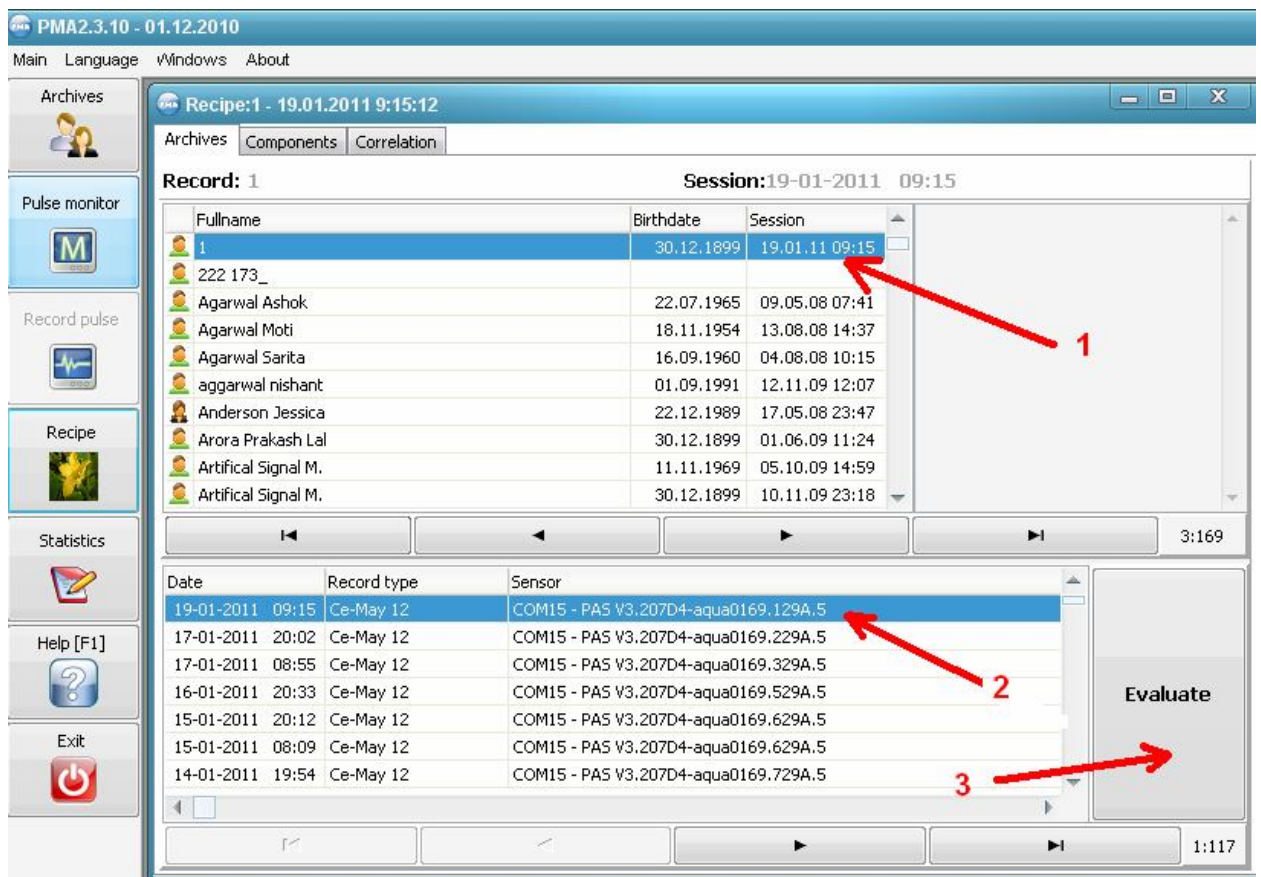




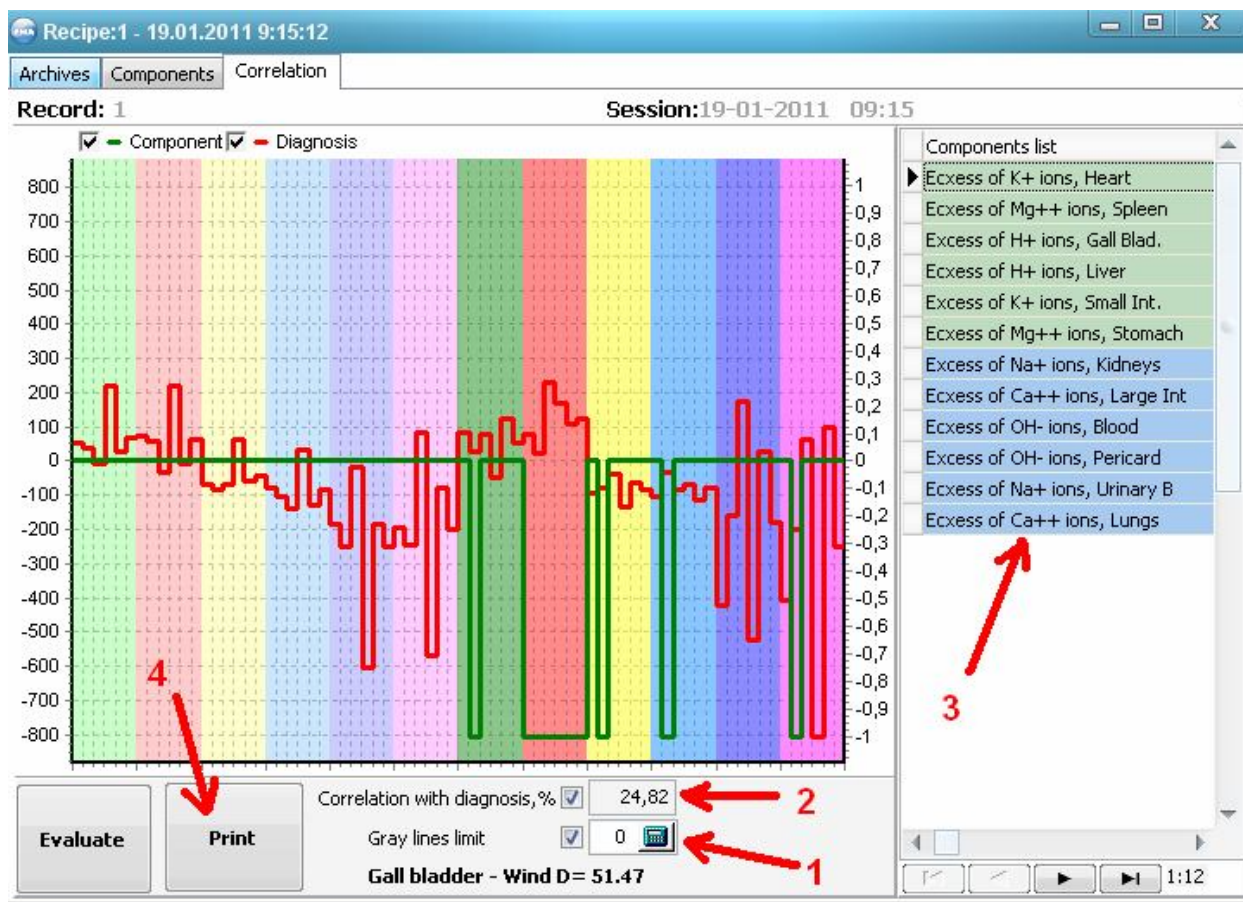
When the component is downloaded, go to the Archive of patients:



Select proper patient (1), his measurement (2), press the button “Evaluate”(3)



The software will calculate automatically the correlation of pulse readings to definite state. Please make value of “Gray lines limit” to zero value (1). The value of “Correlation with diagnosis” will indicate correlation results for proper meridian (2). At our case it is Heart meridian (excess of K⁺ ions, excess of Yang condition)(3). The components list (3) may be printed (4)



5. The Interpretation of list of components.

In the first lines of the list the correlation with theoretical condition is maximal. It means, the most high correlation is at Heart meridian (excess of K⁺ ions), the second in positive correlation is Spleen meridian (Mg⁺⁺ excess). Other positive correlations are placed in green shadow.

Negative correlations are in blue shadow. In our case the most negative is Lungs meridian and it means negative value of C⁺⁺ excess, i.e. it means lack of Ca⁺⁺ ions. Ca⁺⁺ ion is manifestation of Yang phase of Lungs and it means maximal prevail of Ying phase, i.e. excess of Mg⁺⁺ in Lungs. The same is with other meridians in accordance with table of activity we have mentioned above.

Please note, the most positive and the most negative meridians are very energetic and usually they are in active phase of catabolism (in green shadow) or anabolism (blue shadow)/ In the middle between Green and Blue Shadows there is a place of stagnant meridians, especially, if their readings of “Correlation with diagnosis” are near zero. The organs associated with stagnant

meridians are subjected to bacterial and viral invasion due to lack of changes of pH – at consistent neutral pH any invasion is very possible. Consistent disposition of meridian near the zero value means damage. In our case this meridian is Kidneys, where “Correlation with diagnosis” is about 2% (here not shown).

Additional information may be taken into account as follow – it is a gap between the most positive “Correlation with diagnosis” and the most negative one. Practically, these readings of “Correlation with diagnosis” is changing from +50% to -50%. The less readings of “Correlation with diagnosis” means lack of metabolic energy (or excess of chaotic energy movement) and low figures are usually correspond to heavy diseases, especially these readings will be observed consistently. In our case the Heart meridian has positive correlation value 24.82% and Lungs meridian has negative correlation value – 20, 59%. When we summarize these values by absolute meaning: $24,82\% + 20,59\% = 45,41\%$ - we will get the indicator of energy of metabolic power. At proper treatment it is one of the main part of a success.