Blood Protein electrophoresis

Immunological blood test in the planning of the homeopathic treatment

Tsompani Vasiliki (MD, Biopathologist – Homeopath),

Partalidou Anina (Student at the Faculty of Medicine, Aristotle University of Thessaloniki)

Thessaloniki-Greece

Email: apartalidou@hotmail.com, dpsdh07037@syros.aegean.gr

Decoding Hahnemann and similia similibus curentur

The homeopathic treatment system and homeopathic remedies, as described by Hahnemann, in his book «Organ of the therapeutic art» and summarized in paragraph 269, owe their effectiveness to the specific process of matter to nano-particles which have special energy properties. When administered to living organisms they create a magnetic field and frequency, they coordinate "similar" structures and initiate changes in their health state. According to the contemporary sciences such as Quantum physics, nanotechnology and immunology they explain that such an effect of magnetic field and 'identical' frequency or Frequency Larmor, stimulates the Hyperfine structure of Matter resulting in the disclosure of degenerated energy situations, which are perceptible by the immune system and consequently the immune system response is initiated (homeopathic aggravation). The therapeutic effect of homeopathy stimulation depends on the state of the body's immune system and the degree of preparedness, which will confront the «artificially caused-acute disease».

Objective

The objective of our research is the possibility of using electrophoresis of protein plasma as diagnostic and prognostic tool in conjunction with the patient's homeopathy interview in the planning of the homeopathic treatment.
• The homeopathic interview allows the selection of the similar substance for the successful activation.
• Protein electrophoresis provides important information regarding the defense mechanism through the deviations in the regions of albumins, globulins and protein fractions.
Albumins are mainly involved in maintaining the osmotic pressure of blood plasma, in the regulation of the acid-base balance and blood pH. They have an energetic role in the metabolism of nitrogen and also belong to the proteins of acute phase.
Apart from their active role in immunological mechanisms, globulins also have various destinations, eg their participation in the main transport system of many substances.

The objective of the combined information is:
• The prediction of effective treatment.
• Selection of the appropriate potency (stimulation) on the basis of immunological data of the patient.
• Monitoring the immune state of the organism, which confirms the non-toxicity of the treatment.

Methods

The study began five years ago by the following persons: Tsompani Vasiliki (MD, Biopathologist – Homeopath), Partalidou Anina (student at the Faculty of Medicine, Aristotle University of Thessaloniki), Antoniou-Kedikgianni Aikaterini (MD, Homeopath, Vice President of the International Academy of Classical Homeopathy) and Vithoulkas Georgios (homeopathy professor, Director of the International Academy of Classical Homeopathy).
To date, 94 subjects aged between 14 and 87 years (56 females and 38 males) have participated in our study and 140 proteinograms have been produced. Electrophoresis was performed using a Helena SAS-3 device (strips Agarose gel).

The information on the electrophoretic images of our subjects was drawn from the following patients' groups:

1st patients' group Protein electrophoresis was performed for a group of subjects prior to initiation of their homeopathic treatment and the test was repeated after a month or even later as a follow up laboratory index, besides the clinical history, in order to assess, in laboratory terms, the therapeutic intervention of homeopathy.(see below an example in table number 3).

2nd patients'group Proteinograms were produced for a second group of subjects. The electrophoretic image of those proteinograms was decoded and assessed with regard to their health level according to G. Vithoulkas (i.e. their immuno-noresponse), and with regard to the expectation or not of frequent infections or high fever or acutes in the course of the subjects' disease and/or their life expectancy (used by homeopaths and conventional physicians.)

3rd patients' group In a third group, proteinograms were produced for subjects with severe pathologies, in which it seems that the subjects' immune response level often does not match the severity of their condition. (Reference to G. Vithoulkas' theory: "the state of the health level and that of the disease are often not parallel. The patient's prognosis and the state of his/her illness depends on the level of his/her health and it is the latter that will have the "**last word**" regarding the positive or fatal state of the disease, along with the therapeutic interventional method".)
Of those subjects, some followed homeopathic treatment regimens, some others conventional treatment regimens and some others a combination of the two.

4th patients'group In a fourth group of puerperae subjects, proteinograms were produced a few days following normal delivery. These proteinograms show a drop in albumins and a rise in some globulin fractions (abnormal proteinogram.) These are justified by nature's anticipation to degenerate tissue during normal delivery and to quickly regenerate it following childbirth, the proteinogram's physiology is restored in approximately eight weeks' time (according to conventional medicine).

5th patients'group In addition, there are three proteinograms of a young subject, (with menstrual cycle disorders), the first two of which, under homeopathic treatment, were within normal levels while the third one was abnormal (within a short period of time) following intake of a hormonal pharmaceutical preparation of progesterone prescribed by the subject's (conventional) endocrinologist.
Also, there is a further set of two proteinograms; the health level between those two proteinograms changed significantly following discontinuation of aspirin (reference to Hahnemann: "The human body is much more prone to undergo derangement from the action of a medicine –partly because we adjust the dose ourselves– than from that of natural disease", paragraph 30). (see below in table number 4).

Results

Our research has revealed that the speculation of the immune system state ,that the homeopath obtains only through the clinical interview is difficult to be accurate , as the evaluation is rather subjective and further more it demands quite a lot of experience.
The addition of an immunological test, such as the electrophoresis of the protein plasma provides objective facts of the immune system.

Our study has proceeded to the correlation of the electrophoretic images of our patients, comparing them to the subjective speculation of the immune system state, according to the information obtained from "Health Levels" by George Vithoulkas .
The classification of the health state of our patients in groups according to G. Vithoulkas, and their electrophoretic picture in the lab, justify this grading.

Table 1.
Protein electrophoresis
The following fractions appear with protein electrophoresis:
1. Albumins
2. α1–globulins
3. α2–globulins
4. β–globulins (β1, β2)
5.γ–globulins

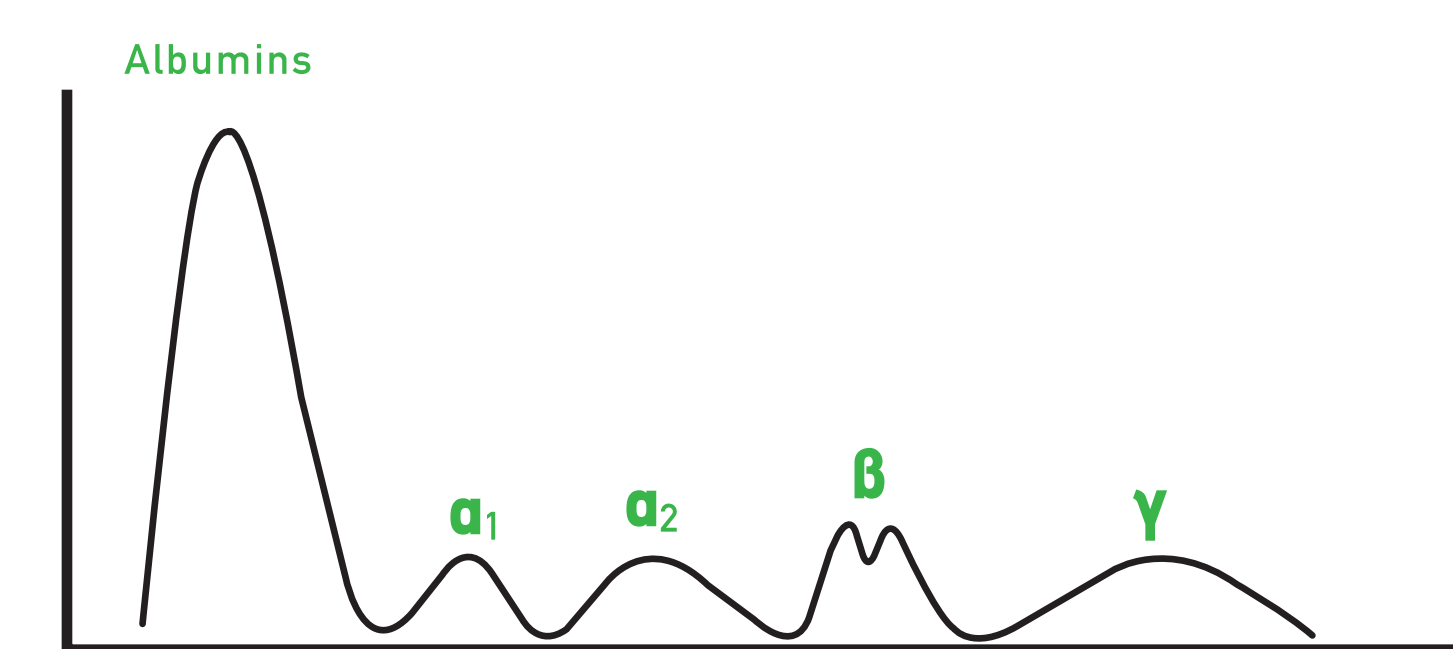The electrophoretic proteinogram is the interpretation of the electrophoretic images and is analyzed as follows:

Figure 1: Normal proteinogram and serum fractions

Serum Fractions	Normal Values	
Albumins	55.8 – 65%	
α1	2.2 – 4.6%	α1 –antitrypsin, TBG, transcortin, etc.
α2	8.2 – 12.5%	Haptoglobulin, ceruloplasmin, α2–macroglobulin, etc.
β(1+2)	7.2 – 14.2%	β1–transferin, β–lipoprotein, etc
γ	11.5 – 18.8%	Antibodies etc

Table 1: Normal values and interesting components of blood proteins (normal values can vary slightly depending on the measuring method)

Health levels (according to G. Vithoulkas)					Findings in protein electrophoresis (according to our research)	
	Conditions	**Homeopathic prognosis**	**Fever & infections**	**Potency & remedies**	**Albumins**	**Globulins**
Group I	Mainly functional disorders Children's diseases	Mild therapeutic aggravation (deterioration) Can be cured directly	Infections are uncommon but with concomitant high fever Typical microorganisms	From 50 M to CM (1–2 remedies)	Within normal levels	Within normal levels
Group II	As the level becomes lower, serious acute infections become more common(e.g. pneumonia) Viral infections and infections by microorganisms resistant to antibiotics	Strong initial therapeutic aggravation	More common serious acute infections with concomitant high or medium fever	From 10 M to 1M (2–4 remedies)	Within normal levels	Some of them abnormal ↑ or ↓
Group III	More serious chronic degenerative diseases Autoimmune diseases and emotional disorders	Very strong initial therapeutic aggravation Reappearance of acute infection during treatment	Acute infections are not common Inability of the body to develop high fever	Up to 200 CH (4–7 remedies)	Abnormal ↑ or ↓	Normal or some of them abnormal ↑ or ↓
Group IV	Very serious chronic diseases affecting the immune system and the CNS Irreversible pathological lesions	No initial therapeutic aggravation Conditions incurable by homeopathy Only relief is possible	Total absence of acute infections and fever	From 30 CH to 6x (remedies are changed frequently)	Abnormal with a rapid decrease	Some of them abnormal ↑ or ↓

Table 2. Health levels (according to G. Vithoulkas) and Findings in protein electrophoresis (according to our research).

Discussion

Based on the electrophoretic picture of the research results, the Immunology data and the Health Level Table according to G. Vithoulkas, the following was established.

• In the **1st Health Level group**, the disorders were simply functional. It has been observed that in functional organ lesions there is no electric disorder on the proteinogram[1] (the Glandular and Autonomous Nervous System is responsible for functional disorders[2].) A normal proteinogram and a clear picture of a homeopathic remedy are observed with very good prognosis for the course of a subject under homeopathic treatment.
• In the **2nd Health Level group**, of organic lesions, where the immunoresponse is very good regardless the disease, proteinograms with albumins within the normal range and with small abnormal deviations of some globulin fractions (depending on the disease) have been observed. Here, clear pictures of homeopathic remedies with very good prognosis are observed.
• In the **3rd Health Level group**, with diseases where the lesions are borderline irreversible, there are severe deviations on the proteinogram with abnormal albumins (decrease or increase) and some normal or abnormal globulins, depending on the disease, with deterioration of values while the subject's condition evolves to irreversible. Here the homeopathic treatment may "time lock" the disease or even increase the health level which will be expressed by proteinogram fluctuations of improvement in the albumin fraction values and globulin fraction balancing.
• In the **4th Health Level group**, the proteinogram is abnormal (with a descending course, even abrupt, of albumins) and the subject's condition is irreversible. (see in table number 2).

1.Biochemistry Antonis Trakatellis – Professor of Organic Chemistry, School of Medicine, Aristotle University of Thessaloniki (protein denaturation 2002, page 171), Clinical Laboratory Medicine, Richard Ravel, MD, 1982, page 326)
2. Pharmacology Richard A.Harvey,Pamela C. Champe (autonomic nervous system, page 31–Greek edition, 2003)

Conclusion

The effectiveness of homeopathy intervention depends on:

• Finding the "similar" remedy and the right potency of the remedy,

• From the objective condition of the patient's immune system, which will manage the induced "artificially caused –acute disease.

The Combined information from both homeopathy and Immunology and the addition of other immunological tests and data will help in the future successful use of the method.
The addition of the protein plasma electrophoresis, to the planning of homeopathy or other treatment and the complementary information from immunology and homeopathy will contribute to safe and efficient handling of all therapeutic regimens.

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Table 3. An example from the **1st patients' group** of our research

Age	Sex	Condition	No of protein orgam	Date	Albumins (%)	α1–globulins (%)	α2–globulins (%)	β1+β2 globulins (%)	γ–globulins (%)	Group according to G. Vithoulkas
56	♀	Rheumatoid arthritis, adrenalectomy & splenectomy 10 years ago	1st	28/11/07	45.3 L	3.7	15.2 H	14.7 H	21.1 H	IV
			2nd	15/02/08	49.3 L	3.3	15.1 H	12.8 H	19.5 H	III
			3rd	17/10/08	47.7 L	3.1	14.7 H	10.8 H	23.7 H	

Table 4. 2nd case from the **5th patients'group**: change in the proteinograms of a subject with high IgE levels, i.e. from abnormal to normal, following discontinuation of aspirin.

Age	Sex	Condition	No of protein orgam	Date	Albumins (%)	α1–globulins (%)	α2–globulins (%)	β1+β2 globulins (%)	γ–globulins (%)	Group according to G. Vithoulkas
58	♂	Prophylactic intake	1ο	19/05/08	54.59 L	2.76	13.62 H	14.7 H	14.74	III
			2ο	24/06/08	57.62 L	2.62	12.40	13.16	14.20	I

H= High / L= Low