

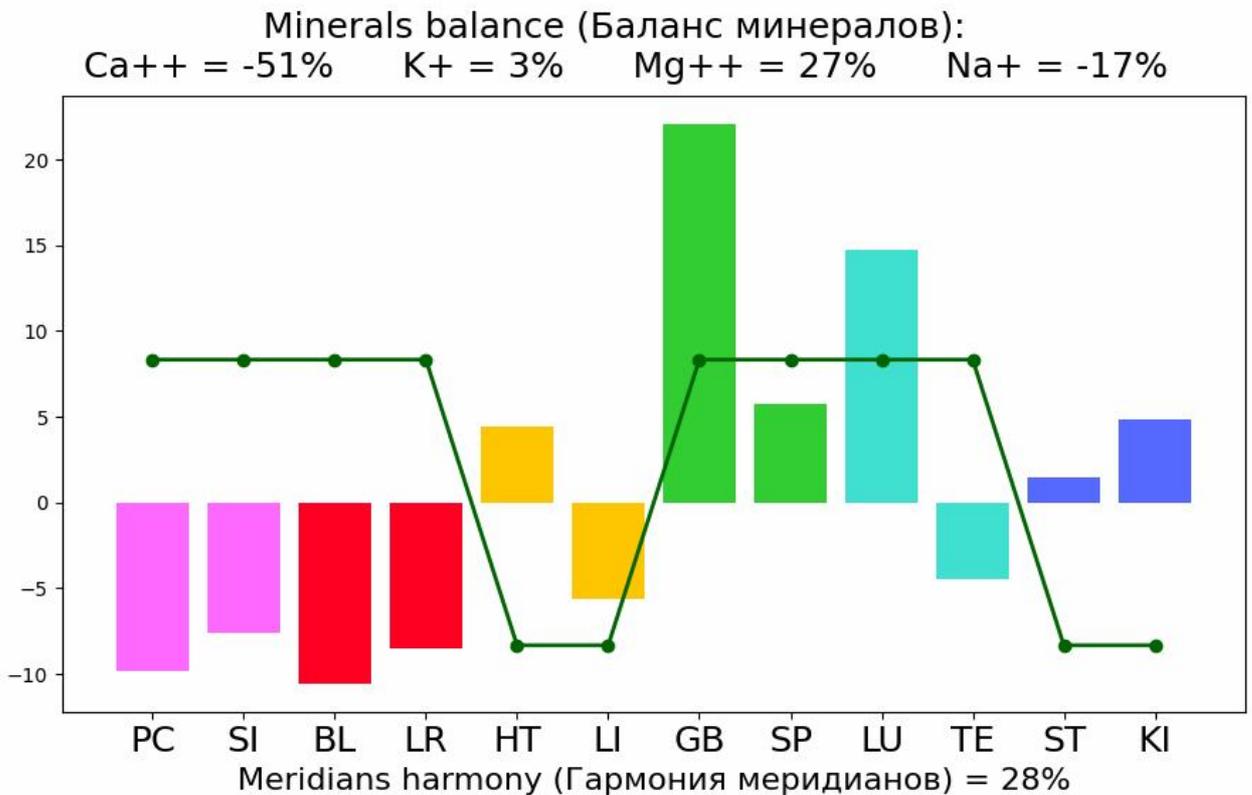
Voice Meridians Analysis

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Date: August 22, 2021, Myotonia case.

Man 31 years old, weight:- 69 kgs Is suffering from Myotonia (A type of muscular dystrophy) for the last 7-8 years. There is no family history of this disease. 3 years ago a nerve compression happened in 2018 in C6 - C7. Owing to compression the right-hand index finger becomes very numb. Sometimes he has pain in the right side of the back.

Voice analysis diagram:



The legend:

12 meridians are represented in pairs in association with specific frequency bands. These bends are shown in different colors. There are 6 bends that correlate with directions in 3-dimensional space on the principles of orthogonality and opposition.

Meridians are represented in accordance with the scheme given in the paper:
https://liusheng.su/?smd_process_download=1&download_id=221

There are 2 systems of meridians (from the left to right):

PC – BL – HT – GB – LU – ST and SI – LR – LI – SP – TE – KI.

And each system of meridians has all 6 types of frequencies.

Each type of frequency has a correlation with the main metabolic ions and positive inclination means their excess:

PC and SI → H⁺ (Hydrogen);
BL and LI → Ca⁺⁺ (Calcium);
HT and LI → Na⁺ (Sodium);
GB and SP → OH⁻ (Hydroxyl);
LU and TE → Mg⁺⁺ (Magnesium);
ST and KI → K⁺ (Potassium).

- Please note, we indirectly analyze the intracellular relative concentrations of metabolically active ions. Blood analysis can not adequately present this information.
- Please note, if we see the deficiency of definite meridians and associated ions, it means relative excess of opposite ions in pairs:
 - K⁺ and Na⁺;
 - Ca⁺⁺ and Mg⁺⁺;
 - H⁺ and -OH.

The black line in the diagram indicated the ideal distribution of oscillating energy. If we transpose this ideal distribution into schemes of I-Ching we'll get the situation described by the Hexagram 30 named as 離 (lí),  "Radiance". It is suggested as health radiance.

We can also make a conclusion regarding anabolic and catabolic balance:

- Positive PC, SI, BL, LR and negative ST, KI inclinations mean catabolic phase and meridians are in Yang conditions;
- Negative HT, LI and positive GB, PC, LU, TE are responsible for the anabolic phase and meridians are in Yin conditions.

It means the profile of inclinations associated with the Radiance hexagram means the balance between anabolism and catabolism or, in other words – it is a manifestation of Yang-Ying balance.

Order of analysis:

1. Looking for the meridians with the most opposite inclinations in comparison with the ideal distribution. These meridians have active destructive function in relation to the whole organism.
2. Looking for the meridians near zero line. These meridians are with less functionality at a given time. And if it will repeat at another measurement we can consider the associated considerably damaged.
3. Looking for the meridians in excess relatively ideal distribution. It means hyperactivity of associated meridians and associated ions. These meridians effect with suppression at other meridians in accordance with Wu-Xing law and the midnight-midday acupuncture rule.
4. In series of measurements pay attention to repeating abnormal inclinations – there is the core of the disease. Normally healthy organism has oscillations of all parameters to follow and adapt to changes in the external environment.

Analysis of given case.

1. Opposite direction (deficiency of proper energy):
 - PC and SI (deficiency of Hydrogen);
 - BL and LR (deficiency of Calcium);
 - ST and KI (potassium excess).

It is deficiency of anabolic phase and from the point of view of traditional Chinese medicine there is lack of Yang (excess of Yin).

2. ST meridian is near zero line and we can suspect dysfunction of the associated organ (potassium excess can cause ulcers).
3. Extremely excessive are meridians SP (Hydroxyl) and LU (Magnesium). This profile stimulates anabolic phase.

Conclusion: the deficiency of H^+ , Ca^{++} , Na^+ ions shift the metabolic balance to the anabolic phase. At this condition, contractile functions are lowered and it is suggested this imbalance is the cause of myotonia. A relative excess of K^+ can cause cramps of myofibrillar tissues in spite of Mg^{++} excess.

Possible correction:

- Administrate Ca^{++} , vitamin D3 supplements, make the diet saltier.
- Elevate Yang in SI, LR energy, suppress Yin in LU and GB meridians.

Scientific confirmation of the correction:

- <https://pubmed.ncbi.nlm.nih.gov/23754696/>
- <https://jamanetwork.com/journals/jama/article-abstract/258857>
- <https://medlineplus.gov/genetics/condition/potassium-aggravated-myotonia/>

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