

The effectiveness of ART in establishing etiopathogenesis  
destructive changes in the spine E.V. Bozhko,  
A.K. Nazarov, O.P. Cherednichenko  
(Medical Center A. Nazarov "ANIK", Tashkent, Uzbekistan)

The subject of our study is 473 patients aged 17 to 75 years with problems of the musculoskeletal system.

More than 90% of patients were previously examined by orthopedists, neurologists, vertebrologists and had X-ray, MRI, MSCT and ultrasound examination with them. In the conclusions, cliché diagnoses prevailed: osteochondrosis, spondyloarthrosis, disc herniation.

Our study (diagnostics by the method of vegetative resonance test on the AIC "IMEDIS-EXPERT") included only patients with discopathy in the form of hernias and protrusions of intervertebral discs. Episodes of external traumatic effects on the spine (car trauma, shock, compression, fall, etc.) in the anamnesis were denied by the patients. Patients with toxic, specific (tuberculosis, syphilis) and hormonal spondylopathies were also excluded from the study.

The aim of our study was to prove the effectiveness of the autonomic resonance test (ART) to determine the etiopathogenetic factors causing discitis and subsequent destruction of discs in the form of protrusions and hernias.

Purpose of the study: to determine the correlation between the etiologic factor and degree of destruction of the surrounding connective tissue and the spinal discs themselves.

During testing, it was found that more often the process involves the lumbosacral spine, then the cervical and less often the thoracic. In 11 men and 20 women, hemangiomas were detected in the cervical (2), thoracic (15) and lumbar spine (14). One man and two women have perineural cysts at the S1 – S2 level. In 10 women and one man, spondyloarthrosis in the cervical spine was accompanied by vertebrobasilar syndrome. Concomitant arthrosis of the knee, shoulder and hip joints were identified in seven men and 27 women. Hormonal spondylopathy - in two women. One man was diagnosed with a spinal cord tumor, which was further confirmed by MRI.

Some patients with the main diagnosis of multiple sclerosis, cerebral vasculitis, subcortical encephalitis, parkinsonism, neurofibromatosis, echinococcus with multiple cysts in the liver and kidneys were also included in the list of examined patients. They turned to our Center for herniated intervertebral discs, and MRI, MSCT revealed the phenomena of spondyloarthrosis, multiple protrusions and intervertebral hernias.

When carrying out diagnostics at APK "IMEDIS-EXPERT", bacterial, viral and parasitic burdens were tested. Almost all of them had mixed lesions. Urogenital infections prevailed, but

dominant were brucellosis (men - 77, women - 116) and yersiniosis (men - 54, women - 150). They most often caused pathological changes in the synovial membranes of the joints.

Very often, doctors do not think about infections such as brucellosis, yersiniosis, and do not associate spinal problems with this pathology. Infection can pass as a "cold", "flu", and the consequences come much later. It is natural that the sacroiliac joints, the spine and joints are involved in the inflammatory process. Patients with yersiniosis have complaints from the gastrointestinal tract: unstable stools, flatulence. Patients come to us for pain in the spine, joints, muscle weakness.

The causative agent of yersiniosis belongs to the family of intestinal bacteria *Enterobacter Yersinia*. At a temperature of 4–8 degrees, these microbes are able to persist and multiply for a long time on food products, including refrigerators. Therefore, this disease is also called "refrigerator disease". The main route of spread of both yersiniosis and brucellosis is food. Allergic components play an important role in pathogenesis. With yersiniosis, as a result of the release of biologically active substances, allergic reactions of delayed and immediate types can develop. The negative quality of *Yersinia* is its similarity with antigens of the connective tissue of the human body (in particular, the synovial membranes of the joints). As a result, the formation and accumulation of autoantibodies occurs, their fixation by interstitial cells and the formation of autoimmune complexes. *Yersinia* has a damaging effect on many organs and systems. In the clinical picture, secondary focal organ disorders of immunopathological genesis are formed, which underlie the development of systemic diseases of the connective tissue.

#### Conclusions:

1. Diagnosis of autoimmune forms of brucellosis and yersiniosis in general clinical and polyclinic conditions are difficult, therefore the ART method in this case is invaluable, and often the only one.
2. Currently, regionally, the first place belongs to yersiniosis, the second is brucellosis and the third is urological infection.
3. Research data are important for regional prevention solutions, diagnosis and treatment of the above infections and their complications.
4. Solving these issues will reduce the risk of disability, postoperative complications, lengthen the life expectancy of patients and improve its quality.

#### Clinical case

Patient R., 43 years old. I went to the medical center "ANIK" with complaints of severe pain in the lumbosacral region, radiating to the left leg, numbness and weakness in the leg. Sweating, weight loss, feeling of constant weakness, drowsiness, depression were also noted. Patient for five years

periodically received treatment for intervertebral disc herniation at the L4 – L5 level. Usually, anti-inflammatory medication, physical therapy, and massage would relieve pain. In September, after stress and hypothermia, the pain intensified, numbness and weakness appeared in the left leg. The drug course of treatment for a month had no effect. The pain and numbness in the leg increased. MRI diagnosed a prolapsed hernia L4 – L5. The council of neurosurgeons and neurologists recommended surgical treatment. A patient, a dermatologist, on the recommendation of a friend, turned to our Center (he already had a referral to a neurosurgical clinic). Before that I knew nothing about the ART method. After a half-hour conversation about the method, I skeptically agreed to the diagnosis.

The result of segmental diagnostics: a poorly expressed hypoergy, pronounced tension of immunity.

Vertebral diagnostics: a pronounced acute focus at the L1 – S5 level. Mental load 4 USD Bacterial burden - brucella, viral - herpes zoster. Indication of autoimmune processes in the synovial membranes.

The patient underwent resonance-frequency therapy of tested infections according to programs F464, F96 daily for 10 days. The frequencies were matched according to the effects: analgesic, antioxidant, arthrogenic, hepatogenic, antispastic. Endogenous BRT was performed twice during the course along the selected meridians.

Literally after the second procedure, the pain syndrome decreased, by the fifth session it practically disappeared, but the numbness and weakness in the leg worried. By the end of the treatment, the sensitivity in the leg was restored. The patient refused the operation. Follow-up for three months, practically healthy.

Result of repeated ART. Segmental diagnostics: normergy, immunity is normal. Vertebral diagnostics: poorly expressed focus at the L4 – L5 level.

#### Literature

1. Vasilieva G.G., Eliseeva O.I. Yersiniosis: the complexity of diagnosis and the significance of the ART method // Abstracts and reports. XVIII International Conference "Theoretical and Clinical Aspects of the Application of Bioresonance and Multiresonance Therapy". Part I. - M.: IMEDIS, 2012. - P.208-213.

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