Fibromyalgia is a syndrome characterized by widespread pain that causes substantial disability, with a prevalence of 6.4% in the general population according to a recent study. Fibromyalgia etiology is multifactorial, involving biological, psychological and social factors. Possible risk factors are: female gender, genetic predisposition, menopause, poor physical condition. The inheritance is polygenic with the involvement of genes polymorphism within the serotonin catecholaminergic and dopaminergic system. Fibromyalgia classification: 1. Primary or idiopathic FM is the most common form. 2. In secondary FM, there are triggering factors: infections (parvovirus, Epstein–Barr virus (EB virus), Lyme disease); injuries and physical trauma (accidents); emotional distress; major surgery; peripheral pain syndromes; hormonal disorders (hypothyroidism); drugs (statins, inhibitors of aromatase), vaccines. 3. Juvenile FM has a better prognosis than in adults. There is no evidence to support the fact that the pathophysiological mechanism would be different in the three forms. FM causes have not yet been fully elucidated. There was identified a central sensitivity and an abnormal process of daily living (ADL); other unexplained symptoms. FM may overlap with other central sensitivity syndromes: chronic fatigue syndrome, irritable bowel syndrome, chronic pelvic pain syndrome / primary dysmenorrhea, temporomandibular joint pain, headache / migraine, post-traumatic stress disorder, multiple chemical sensitivity, restless legs syndrome, interstitial cystitis. FM frequently coexists with disorders characterized by systemic inflammation: rheumatoid arthritis (25%), Systemic Lupus Erythematosus (SLE) (50%), polymyalgia rheumatica, chronic hepatitis C. FM diagnosis is a diagnosis of exclusion. Assessment of other diseases should also be made: hypothyroidism, inflammatory or autoimmune disorders, cardiovascular diseases that can cause chest pain, shortness of breath and palpitations. The American College of Rheumatology (ACR) 2010 diagnostic criteria are: diffuse pain, persistent over 3 months; hotspots (tender) at least 11 of the 18 digitally palpated in standard symmetrical locations on the body; fatigue, sleep disturbances, cognitive dysfunctions; the absence of other disorders that could have explained the pain. According to the ACR 2011 modified diagnostic criteria, other symptoms within the last 6 months are also included: headache, pain or cramping in the lower abdomen and depression.
dolormeter, which is an instrument for determining the pain pressure threshold in 4 tender points (lateral epicondyle, bilaterally, mid-trapezius muscle, VN ≥ 4 kg / cm²). It is a semi-quantitative method to guide the therapy.(13)

2. The pain score for each tender point is used to evaluate the response to treatment (Fibromyalgia Intensity Score - FIS 0-10).

Monitoring and assessment methods consist of general clinical, neurological, and musculoskeletal evaluation and the use of some ghestionares and scales: Fibromyalgia Oswestry Pain Questionnaire, Fibromyalgia Impact Questionnaire, Fibromyalgia Participation Questionnaire to assess the Activities of Daily Living (ADL), Short Form (SF) -36, Modified Health Assessment Questionnaire, The Physician Health Questionnaire-9 for depression, Generalized Anxiety Disorder Questionnaire for Anxiety 7.(14)

FM complications may include: extreme allodynia with high levels of distress, alcohol and opioid dependence, marked disability, marked depression and anxiety, obesity and physical deconditioning, metabolic syndrome.

Clinical and laboratory investigations are not specific. They help diagnosing the diseases which frequently coexist with FM. Antipolymer antibodies provide evidence for population subgroups with FM and are present in approximately 50% of the patients with FM. Genetic testing will be available soon, being important to establish the treatment according to genetic type.(15)

**Medical rehabilitation in FM**

For the patients with FM, disability can be severe and general, reason for which the measures should be focused on improving the function. A medical rehabilitation programme in FM involves a multidisciplinary team of professionals and different individualized modalities for each patient. The team consists of a specialist physician, psychologist, physiotherapist and physical therapist experienced in treating soft tissue disorders.(16)

**Pain management - pharmacological treatment**

Functional improvement in FM is difficult due to the pain barrier. There are several classes of drugs that can be used alone or in combination. Pharmacologic agents can reduce pain by increasing the levels of inhibitory neurotransmitters (duloxetine), or lowering the levels of excitatory neurotransmitters (gabapentin).

According to systematic reviews and therapeutic guidelines, there are strong evidence of efficacy for tricyclic antidepressants (amitriptyline, cyclobenzaprine), Seroxtonin and norepinephrine reuptake inhibitors (SNRIs), (venlafaxine, milnacipran, duloxetine), anticonvulsants (gabapentin, pregabalin), dopamine agonists (pramipexole), agents acting on the sleep-wake cycle (modafinil). Modest evidence exists for analgesics (tramadol), Selective serotonin reuptake inhibitors (SSRIs) (fluoxetine). Strong opioids are contraindicated, as well as corticosteroids, Nonsteroidal anti-inflammatory drugs (NSAIDs) and benzodiazepine hypnotics and nonbenzodiazepine.(16)

Injection of tender points/trigger leads to their painfulness, monofocal pain, hyperalgesia. It is a semi-quantitative method to guide the therapy.(13)

2. The pain score for each tender point is used to evaluate the response to treatment (Fibromyalgia Intensity Score - FIS 0-10).

**Pain management - nonpharmacological treatment**

**Physical Medicine:** electrotherapy, cryotherapy, thermotherapy, hydrotherapy are useful, but there is little evidence of efficacy.(17,18) For the classic massage, there is modest support regarding the beneficial effects on short term. Lymphatic manual drainage and connective tissue massage are helpful in reducing pain, improving health status and quality of life.(19) Balneotherapy has proven effective in relieving pain and function.(20)

**Alternative medicine** (acupuncture and homeopathy) has not shown their efficacy in FM.(21,22)

**Repetitive transcranial magnetic stimulation (rTMS)** bring benefits to the quality of life in FM. Modulation of brain areas is possible with a view to correct functional abnormalities and improve FM symptoms.(23)

rTMS also bring benefits to the pain in FM. It can be considered a safe and noninvasive method, complementary to analgesics for some patients with FM, as confirmed by studies. Analgesia is induced by influencing the emotional processing associated to global pain.(23)

**Physical therapy - aerobic exercise**

Low-impact aerobic exercises are recommended. The start will be with light exercise and progressivity will be slow. There will be performed at least three times a week, less than 30 minutes. Water aerobic exercises are milder and better tolerated.(24)

Meditative movement therapies (quigong, tai-chi, yoga) have modest evidence regarding efficacy in FM.(25)

**FM psychological rehabilitation strategies** are important because patients have elevated levels of stress, feelings of depression, anxiety and frustration. Treatment options include cognitive behavioral therapy, relaxation training, group therapy, biofeedback, stress management.(26)

Cognitive behavioral therapy techniques bring about changes in the thought and behaviour patterns. They are made as personal or group therapy, and the beneficial effects occur in less than 10 sessions. Superior results are obtained when they are applied in combination with exercise and/or education programmes.(27)

Poor diet exacerbates the symptoms of FM. A healthy diet rich in vitamins, minerals, antioxidants, amino acids and fiber is recommended. The patients with FM produce more free radicals than the healthy people because they have reduced antioxidant capacity.(28)

**Multidisciplinary treatment** has shown efficacy in FM. A meta-analysis that included nine randomized, controlled clinical studies (1119 patients) showed that the treatment combining at least one educational or psychological therapy with at least one kinetic method can reduce pain, fatigue and depressive symptoms.(15)

**REFERENCES**

