# Fibromyalgia



acephysio.org





@Acephys

**Fibromyalgia:** A chronic, widespread pain disorder and sleep disturbance due to central sensitisation.

#### Risk factors:

- Female
- PTSD
- History of osteoarthritis, rheumatoid arthritis & systemic lupus nephritis
- Recurrent viral infections
- Recurrent injuries

### Pathophysiology:

- Central nervous system sensitisation exact mechanism unknown
- May be caused by reduced serotonin which normally inhibits nociception
- Increased substance P, nerve growth factor and brain derived neurotrophic factor promotes nociception
- Increased excitability of dorsal horn neurones → hyperalgesia/allodynia

#### Presentation

- Increased sensitivity to pain
- Chronic, widespread body pain
- Fatigue which does not improve with rest
- Sleep disturbance
- Mood disturbance
- Headaches which may radiate to the neck & shoulders
- Variable peripheral numbness and paraesthesia
- Global joint stiffness
- Sensitivity to stimuli such as bright lights & noises
- Concentration and memory deficit

## Diagnosis

- Presence of chronic (>3 months), widespread body pain and associated symptoms such as fatigue & sleep disturbance
- Diffuse tenderness to palpation on physical examination
- It is a clinical diagnosis no imaging required unless to exclude other conditions



## Management

- Patient education on nature of fibromyalgia including explanation of pain neurophysiology. Also provide advice regarding relaxation techniques
- Activity modification give patient advice regarding pacing, avoidance of exacerbating factors, taking adequate rest breaks and setting realistic goals for functional activities
- Supervised light aerobic exercise & strength/resistance training
- TENS & joint mobilisation may elicit short-term pain reduction
- Hydrotherapy promotes muscle relaxation and low-intensity exercise which reduces pain and improves patient quality of life
- Cognitive behavioural therapy can improve sleep quality and reduce hyperalgesia
- Medication pregabalin, gabapentin, serotonin and norepinephrine reuptake inhibitors tricyclic antidepressants, naproxen/tramadol

### Want to learn more?

With AcePhysio the learning journey doesn't stop here! Take a look at our further reading recommendations below to become an expert in Fibromyalgia:

1. Martínez M, Miró E, Buela-Casal G, et al. Cognitive-behavioral therapy for insomnia and sleep hygiene in fibromyalgia: a randomized controlled trial.

recommendations below to become an expert in Fibromyalgia:

Journal Of Behavioral Medicine [serial online]. August 2014;37(4):683-697. Available from: CINAHL, Ipswich, MA.

2. Mannerkorpi K, Nordeman L, Ericsson A, et al. Pool exercise for patients with fibromyalgia or chronic widespread pain: a randomized controlled trial and subgroup analyses. J Rehabil Med. 2009;41:751–76

<sup>3.</sup> Bazzichi L, Da Valle Y, Lucacchini A, et al. A multidisciplinary approach to study the effects of balneotherapy and mud-bath therapy treatments on fibromyalgia. Clinical And Experimental Rheumatology [serial online]. November 2013;31(6 Suppl 79):S111-S120. Available from: MEDLINE, Ipswich, MA.