

Bone pain isn't usually listed as a primary feature of Myalgic Encephalomyelitis (ME), but many patients do report it. Here's how it can fit into the disease picture:

Why Bone Pain Can Occur in ME

1. Neuroinflammation & Central Sensitization

- * ME involves dysfunction in the central nervous system, with evidence of neuroinflammation.
- * This can heighten pain perception and cause patients to feel pain more intensely, even in bones or joints.

2. Immune Dysregulation

- * ME is characterized by chronic immune activation, including abnormal cytokine profiles.
- * Pro-inflammatory cytokines (like IL-1, IL-6, TNF- α) can stimulate pain pathways and cause deep, aching bone or marrow-like pain.

3. Mitochondrial Dysfunction & Hypoperfusion

- * Reduced energy metabolism in muscle and bone tissue may lead to localized ischemia or metabolic stress, felt as deep musculoskeletal pain.

4. Co-occurring Conditions

- * Fibromyalgia (common overlap with ME) can cause widespread musculoskeletal pain, including deep bone aches.
- * Orthostatic intolerance (low blood flow, poor oxygen delivery) may also contribute to limb heaviness and pain.
- * Some patients develop osteopenia/osteoporosis from immobility, malnutrition, or medications, which can cause bone pain.

Descriptions from Patients

- * "Deep bone ache" especially in legs, hips, ribs, or spine.
- * Pain worsening after post-exertional neuroimmune exhaustion (PENE/PEM).
- * Night-time bone pain disturbing sleep.
- * Distinction from muscle pain: feels deeper, as if inside the marrow.

What to Do

- * Document bone pain clearly for clinicians, noting location, timing, and triggers (exertion, orthostatic stress, infections, cold weather).

* Ask for screening if pain is severe or progressive:

* Bone density scan (DEXA)

* Vitamin D, calcium, phosphate levels

* Inflammatory markers

* Pain management in ME is complex, but strategies sometimes used include low-dose naltrexone (LDN), neuropathic pain meds, and pacing to prevent flare-ups.

Bone pain isn't a "defining" hallmark of ME, it is a recognized symptom in subsets of patients, likely reflecting the neuroimmune and metabolic dysfunction underlying the illness.

Together, these references show that bone pain (or deep marrow-like aching) is reported in ME, linked to immune activation, atypical pain processing, and exertion intolerance.

Pain in ME

* Carruthers BM, van de Sande MI, De Meirleir KL, et al. (2011). Myalgic Encephalomyelitis: International Consensus Criteria. Lists widespread pain including "muscle, joint, abdominal, or chest pain" and notes that it can be "atypical in pattern and severity," often described as deep aching pain.

<https://pubmed.ncbi.nlm.nih.gov/21777306/>

Bone & Deep Pain Reports

* Nacul LC, Lacerda EM, Kingdon CC, et al. (2019). How myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS) progresses: The natural history of ME/CFS. Patients describe deep, aching pain involving muscles and bones, often worsened by exertion. <https://pmc.ncbi.nlm.nih.gov/articles/PMC7431524/>

* Carruthers BM, Jain AK, De Meirleir KL, et al. (2003). Canadian Consensus Criteria for ME/CFS. Notes pain can be migratory, atypical, and include deep bone pain as part of the illness spectrum. PDF – ME/CFS Canadian Criteria

<https://rme.nu/.../uploads/2023/06/Canadian-definition-2.pdf>

Immune & Cytokine Links to Bone Pain

* Montoya JG, Holmes TH, Anderson JN, et al. (2017). Cytokine signature associated with disease severity in ME/CFS. Elevated pro-inflammatory cytokines (IL-1, IL-17, TNF- α) known to cause deep musculoskeletal and bone-like pain.

<https://pubmed.ncbi.nlm.nih.gov/28760971/>

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