Pathway for management of chronic widespread pain

Diagnosis of fibromyalgia⁸

A patient satisfies diagnostic criteria for fibromyalgia if the following 3 conditions are met:

- Widespread pain index (WPI) ≥ 7 and symptom severity (SS) scale score ≥ 5 or WPI 3-6 and SS scale score ≥ 9
- 2. Symptoms have been present at a similar level for at least 3 months
- 3. The patient does not have a disorder that would otherwise explain the pain

WPI note the number of areas in which the patient has had pin or the last week. Sore will be 0-9

Area	Tick if present	Area	Tick if present
Shoulder girdle left		Shoulder girdle right	
Upper arm left		Upper arm right	
Lower arm left		Lower arm right	
Hip/buttock left		Hip/buttock right	
Upper leg left		Upper leg right	
Lower leg left		Lower leg right	
Jaw left		Jaw right	
Chest		Abdomen	
Upper back		Lower back	
Neck			
WPI Total score =			

Symptom severity scale (SS scale)

Symptom	Score
Fatigue	
Waking un-refreshed	
Cognitive symptoms	

For each of the symptoms above indicate the level of severity over the past week using the following scale:

- 0 = no problem
- 1 = slight or mild problems, generally mild or intermittent
- 2 = moderate, considerable problems often present and/or at a moderate level
- 3 = severe, pervasive, continuous life-disturbing problems

Somatic symptoms

Muscle pain, irritable bowel syndrome, fatigue/tiredness, thinking or remembering problem, muscle weakness, headache, pain/cramps in the abdomen, numbness/tingling, dizziness, insomnia, depression, constipation, pain in the upper abdomen, nervousness, chest pain, blurred vision, fever,

diarrhoea, dry mouth, itching, wheezing, Raynauds phenomenon, hives/welts, ringing in the ears, heartburn, oral ulcers, loss of/change in taste, seizures, dry eyes, shortness of breath, loss of appetite, rash, sun sensitivity, hearing difficulties, bruising, hair loss, frequent urination, painful urination, bladder spasms

Considering these symptoms in general indicate whether the patient has:

0 = no symptoms

1 = few symptoms

2 = a moderate number of symptoms

3 a great deal of symptoms

The SS score is the sum of the severity of the 3 symptoms (fatigue, waking unrefreshed, cognitive symptoms) plus the extent of the symptoms in general. The final score is between 0 and 12

WPI score = Symptom Severity score = Somatic symptom score =

SS score = Symptom severity score + somatic symptom score =

Examination

To exclude other causes of widespread pain

Musculoskeletal examination

Neurological examination, particularly looking for weakness or upper motor neurone signs

Palpate for lymphadenopathy

Examine for finger/toenail abnormalities skin rashes, psoriasis, alopecia

Examine any other systems identified in history

Differential diagnoses ^{1,2}	Red Flags	
Generalised osteoarthritis	Abnormal neurological signs present (including	
Inflammatory arthritis	muscle abnormalities)	
Giant cell arteritis	Visual disturbance/change	
Polymyalgia rheumatica	Swollen joints (synovitis)	
Connective tissue disorders, eg: lupus	MTP/MCP joint tenderness (or pain on squeeze	
Sjögren syndrome	test)	
Systemic vasculitis	Morning joint stiffness (lasting over 30 minutes)	
Myopathies, including autoimmune myositis	Unexplained rise in erythrocyte sedimentation	
Hypothyroidism	rate (ESR)	
Hyperthyroidism	Unexplained blood/protein on urine dipstick	
Hyperparathyroidism	Weight loss	
Diabetes	Fever	
Peripheral neuropathies	Lymphadenopathy	
Multiple sclerosis	Recent onset Raynaud's phenomenon	
Myasthenia gravis	Skin rashes	
Motorneuron disease	Dry eyes and mouth	

Pharmacological information for fibromyalgia^{3,4,5,10,11}

An over-reliance upon medication can be misplaced and send the wrong message to patients <u>Simple analgesia:</u>

The World Health Organization (WHO) ladder should be used as a step-wise approach to management Agree goals of therapy before prescribing and adjust choice of medications to meet the needs of the individual

Discuss risks and benefits of potential medications, particularly discuss potential side-effects

Guidance

Few trials have evaluated the benefit of appropriate use of analgesic combinations in patients with chronic widespread pain

Combinations may produce improved efficacy and fewer adverse effects, as lower doses of individual medications are required

The use of strong opioids in widespread pain is controversial due to a relative lack of evidence but is generally not recommended^{12,13,14,15}

- Paracetamol 1gm qid
- NSAID rarely helpful and not indicated for long-term management
- Escalate in a stepwise approach to include weak opioids and/or tramadol
- NB: Consider dihydrocodeine in people who do not respond to codeine, as a small but significant proportion of people lack the enzyme to convert codeine (a prodrug) into its active form.
- TCA: (Some evidence that these may help).
 - o Amitriptyline 10mg-50mg nocte
 - o Nortriptyline 10mg-50mg nocte
 - o Dosulepin 25mg-50mg nocte
- Anticonvulsants:
 - Gabapentin 100mg tds to 900mg tds increasing slowly to either good effect or limited by side-effects
 - Pregabalin 25mg nocte to 300mg bd increasing slowly to either good effect or limited by side-effects
- SNRIs:
 - Duloxetine 30mg 90mg nocte (limited evidence fro US trials)
- <u>All medication should be reduced and withdrawn after a trail period if there is not</u>
 <u>measurable benefit</u>

Bristol Fibromyalgia Service

Referral criteria

The following basic tests should have been completed in order to exclude other causes of pain. We also require a print out of the actual results for our records.

- FBC
- ESR or PV
- CRP
- Renal function
- Liver function
- Calcium
- Thyroid function
- Creatine kinase
- Random blood glucose
- Urinalysis for blood, sugar, and protein

Refer to Appropriate Specialist if Diagnosis In Doubt

Exclusion criteria

- Major psychiatric illness with psychotic or manic features.
- Concurrent rehabilitation from another service.
- Ongoing medical investigation

What the service offers^{3,4,6,7,9,16,17,18}

- Multi-disciplinary assessment
- Consultation and advice in liaison with Primary Health Care Team.
- Direct clinical work (group or individual).
- Multi-component rehabilitation package for symptom management. Complex case management.

Investigation checklist

The following test results are required in addition to a referral letter

detailing the patient's history and reason for referral.

Please complete **ALL** the required blood tests in the table below.

Please attach a printout of these results to the referral.

Full blood count	
ESR or PV	
C-reactive protein	
Urea and electrolytes	
Liver function tests	
Calcium	
Creatine kinase	
Thyroid function	
Random blood glucose or equivalent	

If inflammatory arthritis is suspected on the basis of stiffness, swelling, or MTP/MCP joint tenderness, refer urgently to specialist rheumatological care – there is no added benefit to checking rheumatoid serology

Vitamin D

There is no evidence linking chronic widespread pain in the general population to hypovitaminosis D. In some population subsets, or when vitamin D deficiency is specifically suspected, a trial of oral vitamin D therapy should be considered Routine checking of baseline vitamin D levels is not indicated unless there are abnormalities of bone profile or additional physical signs

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