EULAR recommendations for the health professional's approach to pain management in inflammatory arthritis and osteoarthritis

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Aims / Objectives

- Why is pain important?
- Overview of EULAR evidence
- EULAR Principles
- Recommendations
- Cases
- Conclusion

Why is pain important?

- Predominant symptom in inflammatory arthritis (IA) and osteoarthritis (OA)
- 5 million GP appointments a year
- Patients with pain see their doctor 5x as often as those without
- Loss of working days
- Wider personal & social impact

Pain management support

- Reduce pain
- Increase function & wellbeing
- Reduce individual and societal costs

What influences pain?

- Illness beliefs
- Mood
- Avoidance behaviour
- Obesity
- Sleep disturbance
- Pattern of rest & activity throughout the day

EULAR Pain Guideline

- Literature review of systematic reviews conducted by multidisciplinary task force
- Evaluate evidence regarding effects on pain of multiple modalities
- Recommendations based on reviewed evidence & expert opinion
- 186 systematic literature reviews
- Types: IA, RA, SpA
- No systematic reviews on pain for PsA



Education

Treatment modality Disease Specific treatment modality	Reviews (n)	Direction of effect	GRADE quality of evidence
Education and self-management			
RA	8	0/+	$\oplus \oplus$
SpA	1	0	$\oplus \oplus$
OA-general	6	0/+	$\oplus \oplus \oplus$
OA-hand/wrist	1	0	\oplus
OA-hip/knee	4	+	$\oplus \oplus \oplus$
OA-knee	4	+	$\oplus \oplus \oplus$

	Treatment modality Disease Specific treatment modality	Revlews (n)	Direction of effe	
	Orthotics			
	RA			
	Orthotic gloves	2	0/+	$\oplus \oplus$
Orthotics	Splints	5	0/+	$\oplus \oplus$
	Insoles	8	0/+	ΦΦ
	Orthopaedic shoes	3	+	$\oplus \oplus$
	Padded hoslery	1	+	⊕
	OA-hand/wrist			
	Orthotic gloves	1	0	\oplus
	Splints	8	+	$\oplus \oplus$
	OA hip			
	Insoles	1	+	Ф
	OA-knee			
	Braces	10	?/+	⊕⊕
	Sleeves	1	+	$\oplus \oplus$
	Elastic bandages	2	+	ΦΦ
M	Taping	3	?/+	$\oplus \oplus$
NX	Orthoses In general	1	+	$\oplus \oplus$
AA	Insoles	15	?/+	$\oplus \oplus$
	Orthopaedic shoes	1	+	⊕⊕
	Cane	1	+	$\oplus \oplus$

Psychological interventions

Treatment modality Disease Specific treatment modality	Reviews (n)	Direction of effect	GRADE quality of evidence
Psychological interventions	(1)	er en ett	critaciice
RA			
Cognitive-behavioural therapy	7	+	$\oplus \oplus \oplus$
Biofeedback	1	+	$\oplus \oplus$
SpA			
Cognitive-behavioural therapy	1	0	\oplus
OA-general			
Cognitive-behavioural therapy	1	+	$\oplus \oplus \oplus$
Psychosocial and coping interventions	1	+	$\oplus \oplus \oplus$
Relaxation techniques	1	+	\oplus
OA-hip/knee			
Relaxation techniques	1	+	\oplus
OA-knee			
Biofeedback	1	0	\oplus

Treatment modality Disease Specific treatment modality	Reviews (n)	Direction of effect	GRADE quality of evidence
Weight management			
RA	2	+	$\oplus \oplus$
SpA	1	+	\oplus
OA-hip/knee	2	+	$\oplus \oplus \oplus$
OA-knee	10	0/+	$\oplus \oplus \oplus$
Multimodal treatment			
RA			
Comprehensive occupational therapy	1	0	$\oplus \oplus$
OA-hand/wrist			
Multidisciplinary therapy	1	0	$\oplus \oplus$
OA knee			
Comprehensive physical therapy	1	0	000

Physical	activity /	exercise
/	/ ·	

Treatment modality Disease	Reviews (n)	Direction of effect	GRADE quality of evidence
General exercise			
RA	5	0/+	$\oplus \oplus$
SpA	6	+	$\oplus \oplus$
OA-general	6	+	$\oplus \oplus \oplus$
OA-hand/wrist	4	0/+	$\oplus \oplus$
OA-hip/knee	11	+	$\oplus \oplus \oplus$
OA-hip	11	0/+	$\oplus \oplus$
OA-knee	18	+	$\oplus \oplus \oplus$
OA-foot/ankle	2	+	$\oplus \oplus$
Aerobic exercise			
RA	3	0/+	$\oplus \oplus$
OA-general	3	+	$\oplus \oplus \oplus$
OA-hip/knee	2	0/+	$\oplus \oplus$
OA-hip	1	0	\oplus
OA-knee	9	+	$\oplus \oplus \oplus$

Phv Phv	sical activit	tv / exe	rcise		
	Treatment modality Disease	Reviews (n)	Direction of effect	GRADE quality of evidence	
	Strength and resistance				
	RA	2	0/+	$\oplus \oplus$	
	OA-general	3	+	$\oplus \oplus \oplus$	
	OA-hand/wrist	2	0/+	$\oplus \oplus$	
	OA-hip/knee	4	+	000	
	OA-hip	3	+	⊕⊕	
	OA-knee	14	+	$\oplus \oplus \oplus$	
	Tal chi, yoga, qigong, wh	ole body vibration			
	RA	3	2/+	Ð	
	OA-general	6	0/+	\oplus to $\oplus \oplus$	
$\mathbf{\Lambda}$	OA-hand/wrist	3	+	Ð	
M	OA-hip/knee	1	0/+	ΦΦ	
XX	OA-knee	12	o / +	⊕ to ⊕⊕	

	Treatment modality Disease	Reviews (n)	Direction of effect	GRADE quality of evidence
	Acupuncture			
×	RA	5	o/+	ΦΦ
	OA-general	4	0/+	$\oplus \oplus$
A dia collaria contra	OA-hand/wrist	3	0/+	\oplus
Miscellaneous	OA-hip/knee	2	+	$\oplus \oplus$
therapy	OA-hip	1	0	$\oplus \oplus$
Пеюру	OA-knee	16	+	$\oplus \oplus \oplus$
	Balneotherapy and massage			
	RA	3	0/+	⊕⊕
	SpA	2	0/+	⊕
	OA-general	5	0/+	⊕ to ⊕⊕
	OA-hand/wrist	3	+	\oplus
	OA-hip/knee	2	0/+	Φ
	OA-knee	8	+	ΦΦ
	Thermotherapy			
	RA	4	0/+	$\oplus \oplus$
	OA-general	1	0	\oplus
W/	OA-hand/wrist	3	0/+	$\oplus \oplus$
	OA-knee	4	0/+	$\oplus \oplus$

	Treatment modality Disease	Reviews (n)	Direction of effect	GRADE quality of evidence		
	Ultrasound, radiotherapy and diathermy					
Miscellaneous	RA	3	+	$\oplus \oplus$		
	OA-general	2	0/+	$\oplus \oplus$		
therapy	OA-hip/knee	2	?/o	$\oplus \oplus$		
	OA-knee	12	0/+	$\oplus \oplus$ to $\oplus \oplus \oplus$		
	Electromagnetic therapy					
	RA	2	0/+	$\oplus \oplus$		
	OA-general	1	+	$\oplus \oplus \oplus$		
	OA-hip/knee	3	+	$\oplus \oplus$		
	OA-knee	18	?/+	$\oplus \oplus$ to $\oplus \oplus \oplus$		
	Laser therapy					
	RA	3	+	$\oplus \oplus$		
NV NV	OA-general	2	0/+	$\oplus \oplus$		
MA	OA-hand/wrist	4	0	$\oplus \oplus$		
W/	OA-knee	7	0/+	$\oplus \oplus \oplus$		

	Treatment modality Disease	Reviews (n)	Direction of effect	GRADE quality of evidence		
	Magnet therapy					
N.4. II.	OA-general	1	0/+	$\oplus \oplus$		
Miscellaneous	CA-hand/wrist	2	0!+	ΦΦ		
thoropy	OA-knee	2	0	$\oplus \oplus$		
herapy	Manual therapy/joint mobilisation					
	OA-hand/wrlst	4	+	$\oplus \oplus \oplus$		
	CA-hip/knee	1	0/+	$\oplus \oplus$		
	0A-hip	1	+	$\oplus \oplus$		
	CA-knee	1	+	$\oplus \oplus$		
	Diverse					
	CA-general (healing, qigong, chiropractic)	1	0/+	\oplus		
\mathbb{N}	CA-hand/wrist (leeches, copper bracelets)	2	0/?	θ		

Summary Uniformly positive – physical activity & psychological interventions Certain disease groups: Education (OA hip, knee) Orthotics (orthopaedic shoes (RA, OA knees); splints (OA hands); knee orthoses (OA knees) Weight (RA, SpA, OA of hip/knee) MDT

Pharmacological therapies No systemic reviews identified by EULAR guidance but: Analgesics Paracetamol, codeine, opiate-like NSAIDs Intra-articular injections (e.g. steroids) Neuropathic agents Task forces recommend: 1st line: paracetamol topical NSAID/capsaicin (OA, certain joints) Intra-articular injections (OA, IA) Aim to achieve a more manageable, predictable level of pain NOT complete abolition of pain





The assessment and treatment process should be guided by a patient-centred framework.

Patient-centred care

EULAR

Principles:

- Care that is respectful & responsive to patient preferences/ needs
- Patient values to guide decision making
 - Adherence / compliance
- Validation of patient's pain experience
 - Trust / engagement





- The health professional should be able to differentiate between localised and generalised pain and should know that these types of pain may coexist.
- What is generalised / widespread pain?

EULAR

Principles:



EULAR Recommendations:			
Table 4 EULAR recommendations for the health professionals' approach to pain management in	inflammate	ory arthritis and os	teoarthritis
	Level of evidence	Strength of recommendation	Level of agreement task force: mean (SD)
1. Assessment by the health professional should include the following aspects (the assessment is brief or extensive depending on factors such as available time, whether it is a first or regular consultation, and the needs of the patient):	4	D	9.3 (0.8)
Patient's needs, preferences and priorities regarding pain management and important activities, values and goals in daily life			
Patient's pain characteristics including severity, type, spread and quality.			
Previous and ongoing pain treatments and the perceived efficacy.			
Current inflammation and joint damage as sources of pain, and whether these are adequately treated.			
Pain-related factors that might need attention: (a) the nature and extent of pain-related disability. (b) beliefs and emotions about pain and pain-related disability. (c) social influences related to pain and its consequences. (d) sleep problems and (e) obesity.			
2. The patient should receive a personalised management plan with the alm of reducing pain and pain-related distress and improving pain-related function and participation in daily life. This plan is guided by shared decision-making, the expressed needs of the patient, the health professional's assessment and evidence-based treatment options. A stepped-care approach may include, in step 1, education and self-management support (recommendation 3); in step 2, one or more treatment options by a specialist if indicated (recommendation 4 to 9); or, in step 3, multidisciplinary treatment (recommendation 10).	4	D	9.0 (0.8)
M			































Case 1

Medication:

- Paracetamol 1g QDS
- Codeine too constipating
- NSAID gels mild benefit
- What next?













- Decides to have surgery
- "What about a steroid injection" whilst waiting?
- Need at least 3 month gap due to infection risk
- What are hyaluronic acid injection?
 - Controversial as mixed evidence, can take up to 3 months to have any effect







Case 2

- MDT approach:
- ARUK Exercise sheets
- Education, ARUK Fibromyalgia leaflet
- 8 month wait for pain management programme!
- What else in the meantime?



Conclusions

- Recognise bio/psycho/social approach to pain management
- Consider all holistic options available approach to IA / OA whether single or multiple joint involvement
- Pain medication only a small part of overall management
- Give patient a personalised plan prior to any pain management programme
 - Physical therapy (consider for all)
 - Psychological therapy (consider for all)
 - Orthotics, sleep, weight ((depending on area involved)
 - Complementary (commonest acupuncture, balneotherapy, massage)

