Investigating differences in healthcare professional's pain beliefs in inflammatory and non-inflammatory paediatric chronic musculoskeletal pain conditions

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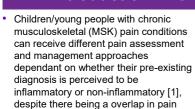
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experiences.

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Introduction



To date, it is unknown what pain beliefs are held by healthcare professionals (HCPs) about these diagnoses that can lead to different pain assessment and management approaches for children/young people.

Aim

To explore paediatric rheumatology HCP's pain beliefs and pain assessment and management priorities in relation to paediatric chronic MSK pain diagnoses (inflammatory or non-inflammatory).

Method

- Paediatric/adolescent rheumatology HCPs (December 2021-ongoing).
- Online Qualtrics questionnaire.
- Each HCP read two fictional clinical vignette scenarios.

Vignette scenarios

Either juvenile idiopathic arthritis (JIA) or diffuse idiopathic pain

Reporting chronic MSK pain

Pain beliefs

Brief Illness Perception Questionnaire (B-IPQ) [2]

List of causal factors adapted for paediatric MSK pain

Pain assessment & management

Rate the importance of **15** assessment and **13** management options for that vignette.

Choose top **3** assessment and management options.

 Data were analysed using paired Samples t-Test, Wilcoxon signed-rank test, and McNemar's test

Results

Thirty-nine paediatric rheumatology HCPs (32 female, 6 countries, 11 job roles).

B-IPQ

• Scored other s

Diffuse idiopathic pain

 Scored higher on pain duration, number of other symptoms associated with pain, and concern and emotional impact for the child/young person (p < .001)

JIA

 Scored higher on children/young people understanding their pain (p < .001) and treatment controlling pain (p = .007)

Factors associated with pain

Diffuse idiopathic pain

 Nervous system, Lifestyle, Family history of pain role models, Behaviour, Mood, Personality, Past pain experiences, Social environment (online and inner)

p = .001
Biological factors, Outer social environment. School

JIA p < .001

• Disease activity

Pain assessment priorities

Figure 1: Pain assessment options ranked as number 1 priority (N = 39)

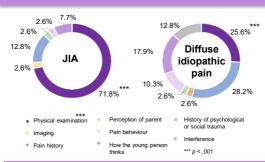
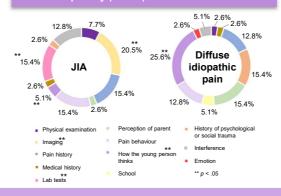


Figure 2: Pain assessment options ranked as number 2 priority (N = 39)



Pain management priorities

Figure 3: Pain management options ranked as number 1 priority (N = 39)

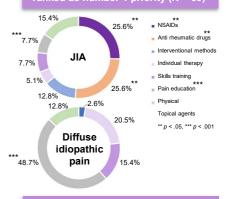
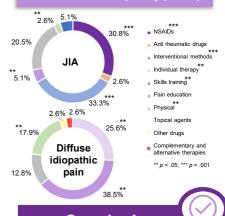


Figure 4: Pain management options ranked as number 2 priority (N = 39)



Conclusions



HCP's beliefs about pain differ dependent on the perceived cause of pain and pre-existing diagnosis.



Psychosocial factors tend to be considered more for diffuse idiopathic pain (i.e. non-inflammatory) than JIA (i.e. inflammatory).



Future work should explore and develop interventions to target beliefs which negatively impact clinical decisions to ensure children/young people receive the most appropriate, patient-targeted care.

References

[1] Lee, R.R., et al., "Reluctant to assess pain": A qualitative study of healti care professionals' beliefs about the role of pain in juvenile idiopathic arthritis. Arthritis Care & Research, 2020. 72(1): p. 69-77.

[2] Broadbent, E., Petrie, K. J., Main, J., & Weinman, J. (2006). The brief illness perception questionnaire. Journal of Psychosomatic Research, 60(6), 631-637.









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