REFRAME THE PAIN: A PILOT RCT OF PARENT-LED MEMORY-REFRAMING INTERVENTION TO ALTER CHILDREN'S MEMORIES FOR PAIN

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Background

Parent-child interactions regarding pain experiences have been argued to play a powerful role in children's pain outcomes.

To date, the research has focused on the parent-child interactions with regards to *immediate*, usually *experimental* or *acute*, pain experiences.

Parent-child reminiscing, or talking about past, provides a snapshot of parent-child verbal interactions and influences developmental trajectories [3].

Parent-child reminiscing offers a unique framework to examine PREVENTION how *past chronic pain* experiences are narrated, constructed, Learning from past headaches/migraines to prevent future headaches (e.g., monitoring hydration, ensuring sleep hygiene). and reconstructed.

Parent-child reminiscing about *past pain* differs from reminiscing about other negative events and impacts how children remember their acute pain [2].

Parent-child reminiscing characterized by emotion- and coping-focused language has been linked to children's outcomes in the context of chronic pediatric conditions [1].

No studies examined parent-child reminiscing about past chronic pain experiences.

Study Aim

To characterize parent-child reminiscing about past chronic pain flare-ups.











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	Reminiscing Themes
1	FOCUSING ON FACTS Reiterating specific facts regarding past headaches/mig length, trigger, sensations).
	Parent: I do remember the circumstance, but I do n remember [the headache] that much. Child: I slept, did not really eat and felt like I was dy Carly, 14 years old, and

Parent: We were shoe shopping or whatever, we went to a mall for Christmas shopping. Child: And it was really not fun. I had to sit in the car for a while, as it hurt so bad. Pretty not fun.

James, 16 years old, and his mother

Child: I think I drink lot of water these days though. Parent: It's lights. They always get you. You need to limit them. Nina, 12 years old, and her mother

Parent: Was it the toast that triggered a headache? Child: Nah...the only foods that actually do trigger headaches are ranch [dressing], watermelon and this one other. Jack, 16 years old, and his mother

COMMUNICATION

Acknowledging how challenging it is to communicate about pain and distress, seeking support and validation.

Child: Uh, I don't want you to stress about every single headache, but there are times when it's like "kay, I'm not doing great, I don't want you to be scared about it, but I'm scared about it" and I'm panicking and I'm in pain. Parent: Ok, but I don't know when you do that because you don't communicate that with me.

Gregory, 14 years old, and his mother

Parent: I remember we...left you alone during that time. Child: Which was really nice of you, because if you had come into my room, I probably would have screamed at you because I was in a lot of pain.

Parent: Because that would've helped. Child: No, it really wouldn't have but I'm saying I was in a lot of pain, and I don't convey my thoughts when I'm in pain. Sasha, 18 years old, and her mother

Sample

graines (e.g.,

not

dying. d her mother 30 youth and one of their parents

60% girls, 92% mothers M_{age} = 13.5 years (*range* 8 to 18 years)

Presenting with recurring headaches/migraines Procedure Youth and one of their parents reminisced about two salient events that involved past headaches/migraines. Conclusions

Participants completed a narrative elicitation task using a video-conferencing platform (i.e., Zoom). The narratives were recorded and analyzed using Inductive reflexive thematic analysis. Parent-child reminiscing offers a novel way to examine how the experience of pediatric chronic pain is shaped by parentchild verbal interactions. Future studies will examine the links between reminiscing style and children's psychological functioning and pain outcomes. Novel treatment targets may include modifying the way children and parents narrate about past pain flare-ups to alleviate children's pain-associated distress and aid recovery

from and/or adaptation to chronic pain.

References

[1] Guidotti L, Solari F, Bertolini P, Gebennini E, Ghiaroni G, Corsano P. Reminiscing on acute and chronic events in children with cancer and their parents: An exploratory study. Child: Care, Health and Development 2019;45(4):568-576.

[2] Pavlova M, Lund T, Nania C, Kennedy M, Graham S, Noel M. Reframe the Pain: A Randomized Controlled Trial of a Parent-Led Memory-Reframing Intervention. J Pain 2021. [3] Salmon K, Reese E. The benefits of reminiscing with young children. Current Directions in

Psychological Science 2016;25(4):233-238.