Addressing Psychosocial Factors in Teens with Chronic Pain

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Disclosures

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Learning Objectives

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- <u>Call Understand</u> how aspects of *everyone's* psychological makeup and environment lead to stress and avoidance





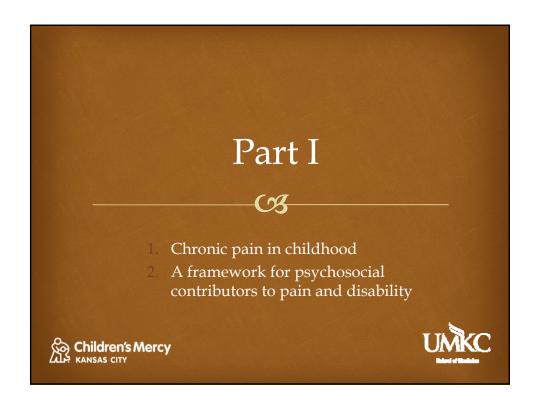
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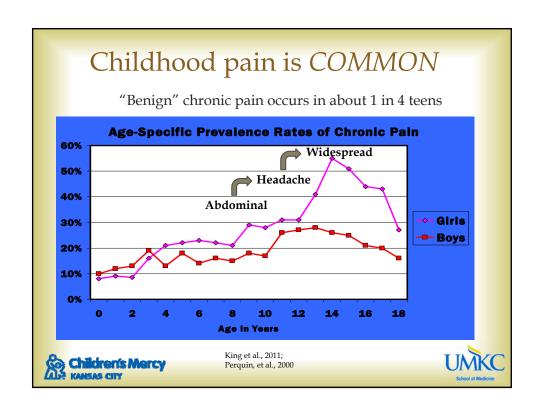
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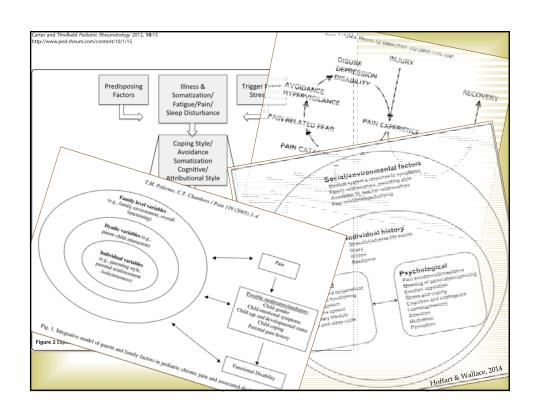
Pain gets in the way

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- Only a minority of teens with pain are disabled by it...
- Not primarily driven by characteristics of the pain see E.g. severity, frequency, area affected
- № Need to consider the patient *and* their environment...







The Psychology of pain

Caretaker Others' doubt Depression Catastrophizing Perfectionism

Parent solicitousness Anxiety Sleep problems
Poor coping Rigidity

Self doubt

Meaning of pain Fear of future Poor acceptance Fear of movement **Bullying**

> Pleasing others Learning problems

Parent protectiveness High pressure sports Defined by pain

The Psychology of pain

Stress/autonomicer Attention to pain Depression dysregulationzing Perfectionism

Parent solicitousness Anxiety Rigidity Sleep problems

Poor coping Self doubt Meaning of pain

Fear of future Poor acceptance Fear of movement Bullying

Pleasing others Learning problems

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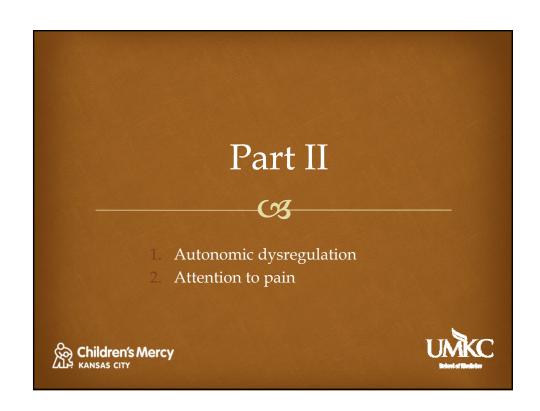
The Psychology of pain

Stress/autonomic dysregulation

Perfectionism
Sleep problems
Depression Pleasing others
Anxiety Caretaker
Poor coping
Bullying Catastrophizing
Learning problems
High pressure sports
Rigidity

Attention to pain

Meaning of pain Parent solicitousness Others' and self doubt Fear of movement Poor acceptance Defined by pain Fear of future Parent protectiveness



Autonomic dysregulation



- ₩ell established issue in teens with chronic pain
 - Teens with pain have faster arousal response to stress, and slower resolution
- ™ Many teens with chronic pain are:
 - Intelligent but perfectionistic
 - Like structure, organization, struggle with unexpected
 - Work hard to please others; the listener and fixer
 - Internalize their own emotions
- ™ These strengths lead to *chronic stress*!



e.g. Huss et al., 2009; Hoffart & Wallace, 2014



Autonomic dysregulation



- Research on stress and psychophysiological disorders shows link btw chronic autonomic arousal and pain
- [™] Chicken or egg...?
- Studies in adults have found:
 - Life stress (incl ACE's) as well as depression and anxiety predict later or concurrent onset of pain
 - **8** Baseline autonomic dysregulation does not



Generaal et al., 2015, Ann Rheum Dis; Gerrits et al., 2015, J Psychosomatic Res)



Autonomic dysregulation

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- Nevertheless, treatment regulating the ANS is key to successful pain management
- ™ Usually, though, part of a multimodal plan





Attention to pain

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- - S Wired to avoid danger

 on of which pain is a reliable signal − e.g. hot stove
- Social pressure to be identified by pain (*sick role*)

 ✓ "Why aren't you better yet?"



Boyer et al., 2006; van der Veek et al., 2014



Attention to pain



- Decisions based on pain strengthen pain
 - If it's important, your brain will track it
 - ☑ By tracking, your brain is practicing...
- Attention strengthens pain, through:
 - Central sensitization
 - Chemical communication from brain to increase peripheral signaling



e.g. Woolf, 2011, Pain



(review) Psychology of pain

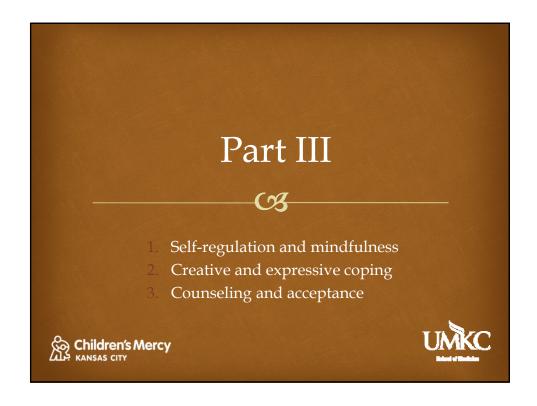
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Stress/autonomic dysregulation

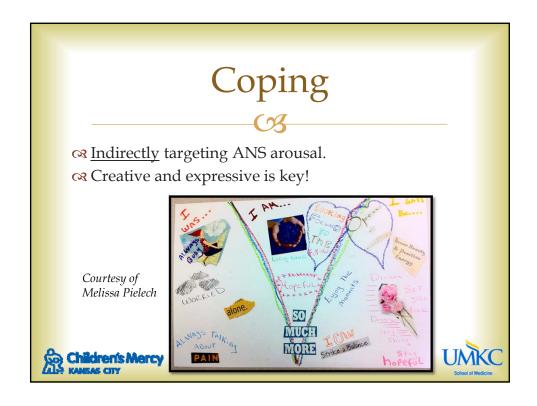
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Self-regulation Self-regulation Directly targeting the ANS (parasympathetic) through: Relaxed breathing Relaxed breat



Coping

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- - ☑ Art (being expressive)
 - Music (making it)
 - ☑ Dance (doing it)
- ∾ Not just distraction (e.g. doodling, music, tv)





Coping

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- **∞** Exercise!
- ⊗ Being with others
- Sleep
 - 😘 Yes, you can do it even with pain
 - Remember, it's a drive and a habit
 - № https://sleepfoundation.org/sleep-disorders-problems/pain-and-sleep
 - № https://sleep.org/articles/sleep-hygiene/





Reduce attention to pain



- Can't do this directly
 - We respond to pain like danger (fear)
 - Learn through our own <u>behavior</u>, not teaching
- Reduce impact of pain on decisions
 - $\ensuremath{\text{CS}}$ Going to school, traveling, doing things with friends...
- ™ Reduce conversation about pain
 - 😘 At home (neutral responses)
 - At school (script)





Counseling



- - Manage things that cause stress (anxiety, perfectionism)
 - Move life <u>toward</u> important goals rather than <u>away</u> from pain





The *process* of referral to mental health is critical to acceptance



- Families more likely to accept if it is presented *early* and as a routine procedure (rather than last resort) in all cases of persistent pain associated with disability
- ™ Emphasize that patient is being approached as a whole person and not just a hurt body part
- Reassure that medical monitoring will continue and set a visit schedule accordingly



Palermo , 2000 Larsson, 1991



Tips for mental health referral



- Seek a provider that has considerable experience with adolescents (not an adult provider who sees a few kids)
- Also seek a provider who uses cognitive-behavioral therapy (CBT) given its empirical evidence for efficacy
- ™ Provider does not need to know anything about pain! They are not treating the pain, but rather helping with stress (and its contributors) and attention to pain.



Palermo et al., 2010



Summary



- Chronic pain is common in teens, but the pain itself does not primarily determine disability
- Myriad psychosocial variables can be understood as <u>increasing stress</u> and increasing <u>attention to pain</u>
- Self-regulation, creative coping, and counseling are important components to treating amplified pain
- Recommendation for counseling should come <u>early</u> and be presented as <u>routine</u> parts of treatment





