



EDUCATA

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Nociception and Pain

Danger Detection, Transmission and Implications for Care

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Note to Participants: There are interactive pop-up questions throughout this lecture. If you choose to pause the lecture and return at a later time, a natural break time would be after answering the interactive questions. (You are able to pause at any time and the presentation will "remember" where you were. It's just a more natural time to pause after the interactive questions.) For your convenience, this outline reflects where/when within the lecture the interactive questions occur.

This lecture is 88 slides and 70 minutes in duration.

I. Introduction

- A. What is pain?
- B. Defining
 - 1. Nociception
 - 2. Pain
 - 3. Behavior
- C. How the brain reacts to pain
- D. Neurotags and how they work
 - 1. Action
 - 2. Modulation
 - 3. Pain
- E. The vocabulary of pain

Interactive Questions – slide 25 @ 15 minutes

II. What is nociception?

- A. Defining nociception
- B. How do we detect *anything*?
- C. Unspecialized "free nerve endings"
- D. Free nerve endings have a range of:
 - 1. Activation thresholds
 - 2. Response range
 - 3. Adaptation rate
 - 4. Conduction velocity

Interactive Questions – slide 61 @ 44 minutes

- E. Rethinking the dorsal horn
 - 1. The dorsal horn as a mass of neurotags
 - 2. How the dorsal horn communicates pain to the brain
 - 3. Spinal neurotags
- F. How motor systems are similar to neurotags
- G. Movement across synapses
- H. Molecular patterns

Interactive Questions – slide 86 @ 62 minutes

Notes