Pain & Analgesia

OBJECTIVES:

1. Describe the various types of pain receptors.
2. Know the peripheral and central anatomical pathways involved in nociception.
3. Understand the cellular basis that underlies normal fast and slow pain sensation compared with innocuous mechanical sensation (light touch).
4. Understand the molecular basis by which nociceptors can respond to mechanical, thermal, and chemical stimuli.
   • no single receptor class is dedicated to one percept, and no one percept relies on a single receptor class
5. Understand the molecular mechanisms responsible for the development of pain hypersensitivity (allodynia or hyperalgesia) in response to tissue or nerve injury.
6. Understand the cellular and molecular basis that underlie abnormal (chronic) pain sensation.
7. Understand how the body normally alleviates pain (analgesia).
8. Define the terminology related to pain according to the IASP classification.