

## Opioid Analgesics Addiction

Young Victims of the Opioid Epidemic

By THE EDITORIAL BOARD JAN. 16, 2017

'I couldn't manage the pain'

'This compound is very sneaky'

'I believed the doctors would know better'

New York Times, January 2017



## Opioid Analgesies Addiction

In 2014, for the first time in Virginia, more people died from opioid overdoses than fatal car accidents.





## Opioid Analgesics Addiction

three Virginians die from drug overdose and more than two dozen are being seen in emergency departments every day due to drug overdose.



## Opioid <del>Analgesics</del> Addiction

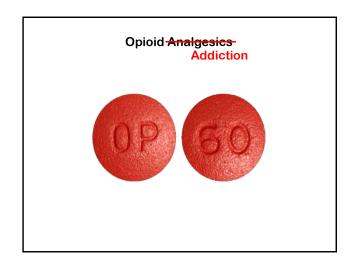
Young Victims of the Opioid Epidemic

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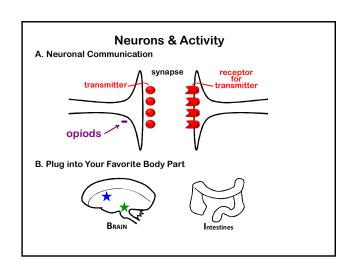
## 'We need them'

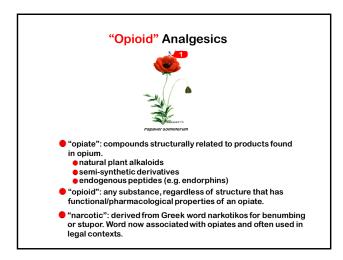
The reporting is one-sided and leaves out how all of these new laws affect chronic-pain patients. We do not abuse these drugs. We need them to function in daily life. Politicians should not make health care decisions. —  $Christiane\ Warren,\ Kearny,\ N.J.$ 

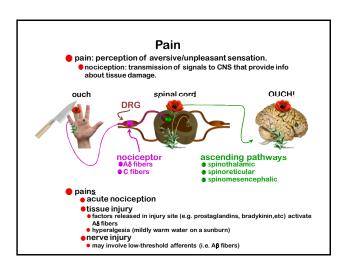
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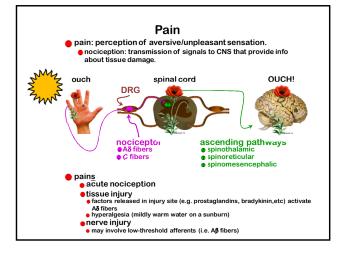


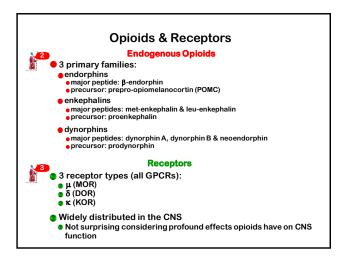
## Neurons & Activity

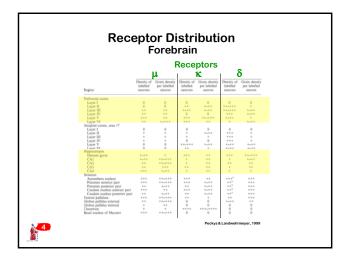


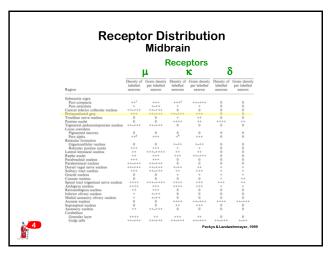


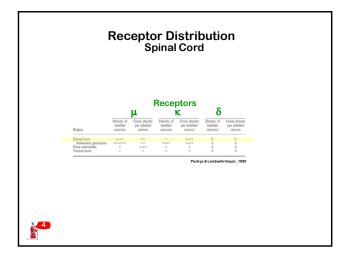


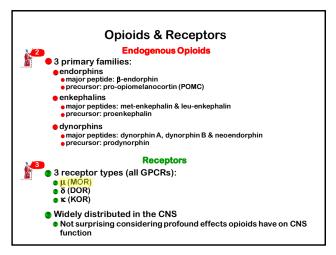


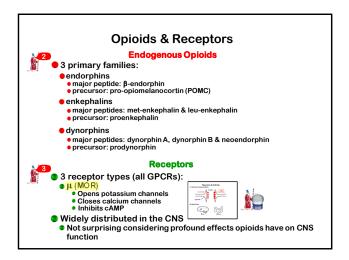


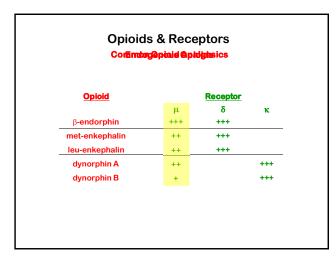


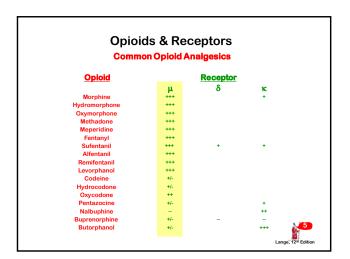


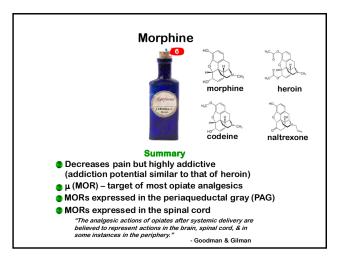


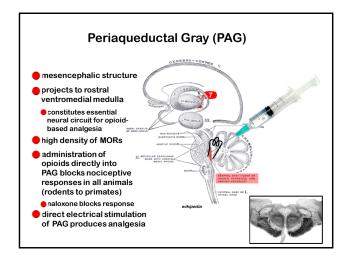


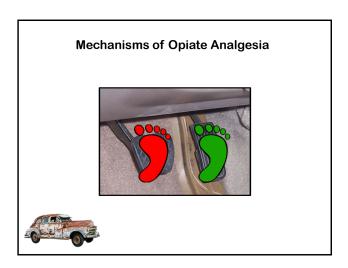












## Mechanisms of Opiate Analgesia



But What's the Point?

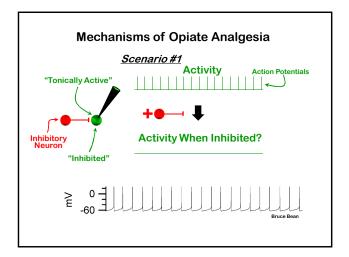
Sometimes You're Already to Go, but Something's Stopping You

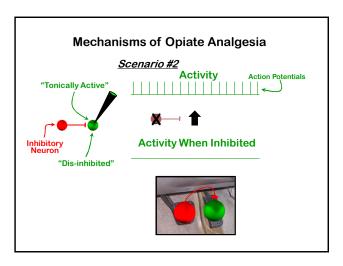
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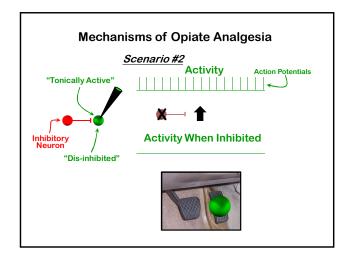


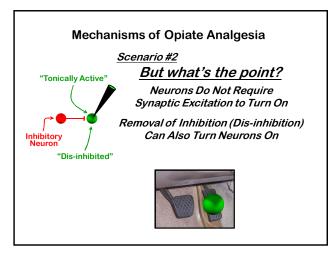
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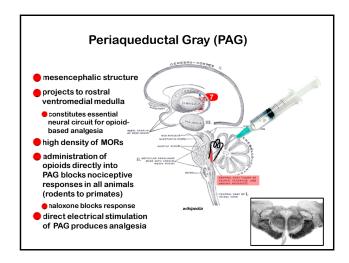
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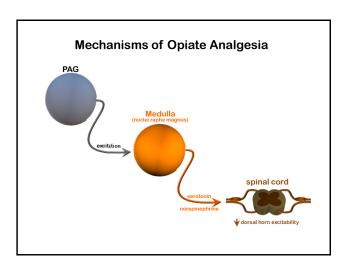




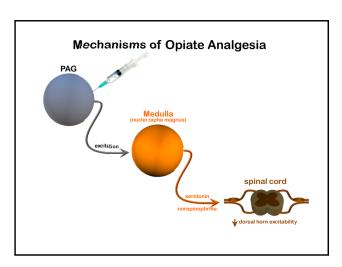


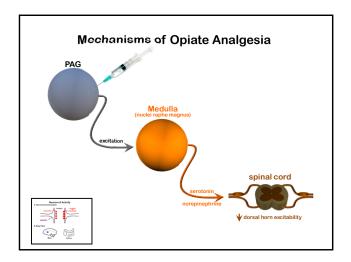


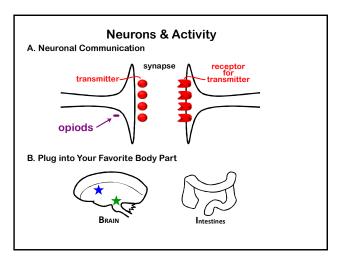


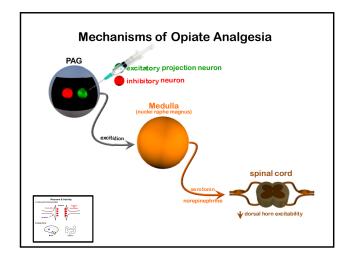


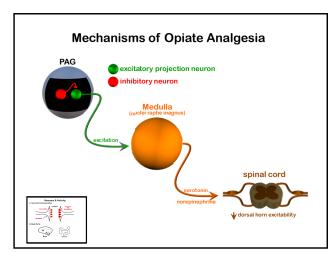


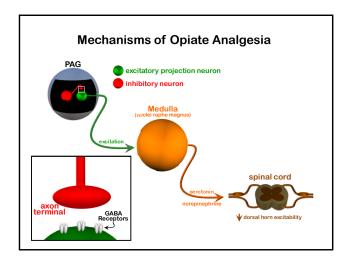


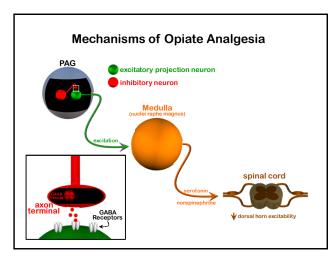


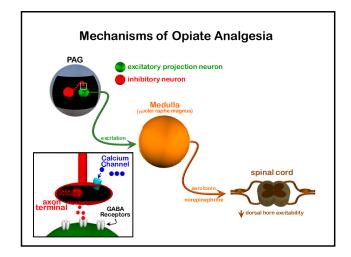


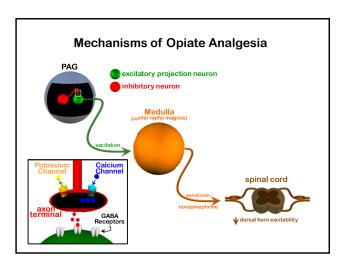


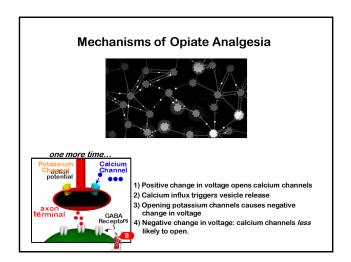


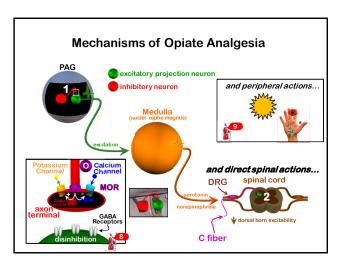


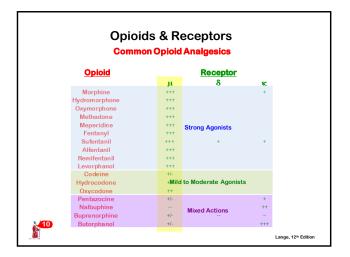


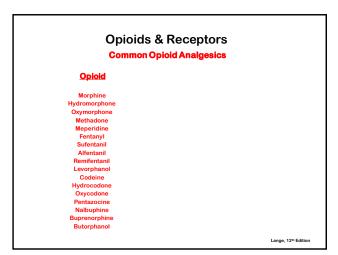




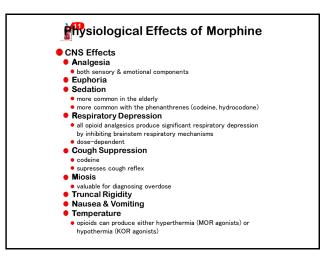








## CNS Effects Analgesia both sensory & emotional components Euphoria Sedation more common in the elderly more common with the phenanthrenes (codeine, hydrocodone) Respiratory Depression all opioid analgesics produce significant respiratory depression by inhibiting brainstem respiratory mechanisms dose-dependent Cough Suppression codeine supresses cough reflex Miosis valuable for diagnosing overdose Truncal Rigidity Nausea & Vomiting Temperature opioids can produce either hyperthermia (MOR agonists) or hypothermia (KOR agonists)



# M RAT SCENT

