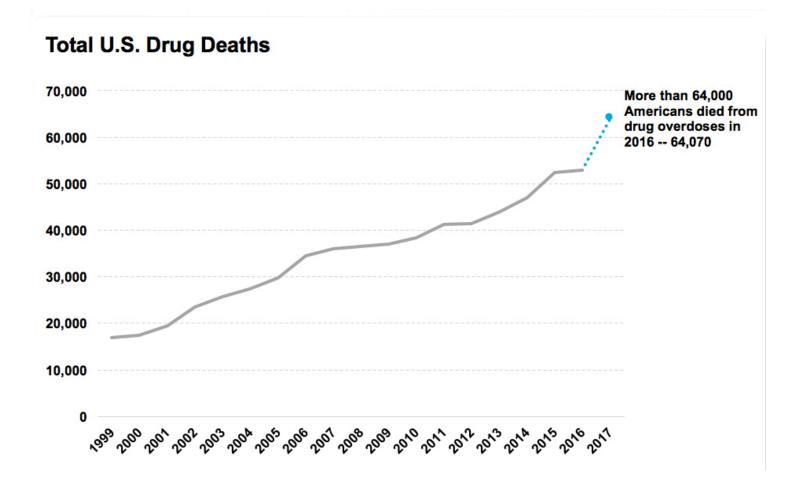
# TEENS, OPIOIDS, AND THE PATH TO ABUSE AND ADDICTION PART 1B

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## Increase in Overdose<sup>99</sup>





### OPIOID RECEPTORS WHEN YOU FIRST START USING OPIOIDS Enable us to achieve a goal (short term).<sup>23,24</sup>

- Decrease pain.
- Increase motivation.
- Increase confidence.
- Increase reward.
- Reduce depression and anxiety.
- Increase pleasure in current activity.
- Increase "warmth-liking".<sup>25</sup>
  - Liking warm things.
  - Love.
  - Interpersonal bonding.

# So how quickly does dependence on opioids occur?

Characteristics of Initial Prescription Episodes and Likelihood of Long-Term Opioid Use — United States, 2006–2015<sup>27</sup> FIGURE 1. One- and 3-year probabilities of continued opioid use among opioid-naïve patients, by number of days' supply\* of the first opioid prescription — United States, 2006–2015<sup>27</sup>

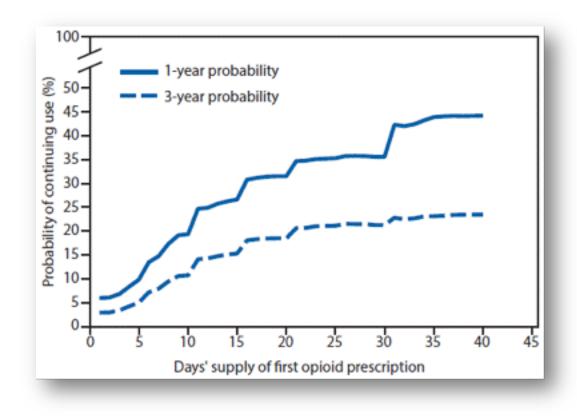
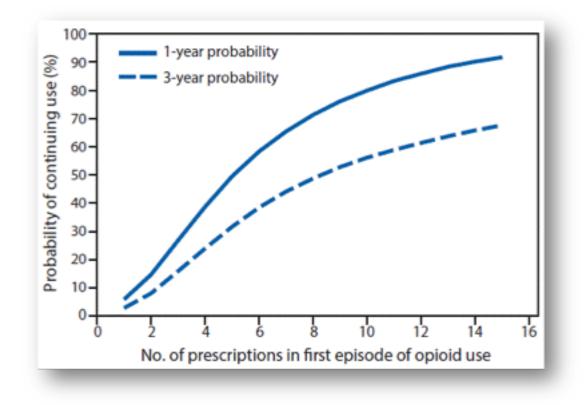
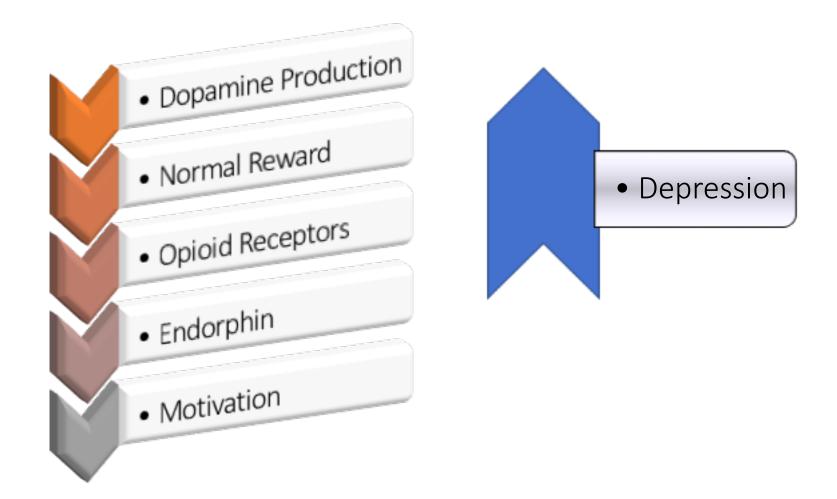


FIGURE 2. One- and 3-year probabilities of continued opioid use among opioid-naïve patients, by number of prescriptions\* in the first episode of opioid use — United States, 2006–2015<sup>27</sup>



### CHRONIC OPIOID CONSUMPTION

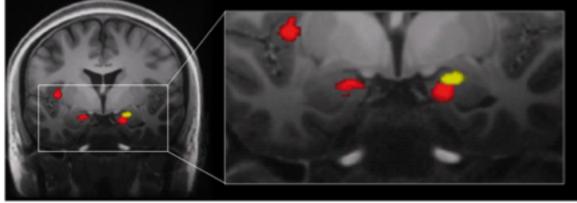


### OPIOIDS

#### Side Effects:

- Mentally impairing.<sup>30, 31</sup>
- Delay recovery.<sup>32,33</sup>
- Increase medical costs.<sup>34</sup>
- Opioid hyperalgesia.<sup>35,36</sup>
- Double the chance of disability (if prescribed for 7 days or more).<sup>37</sup>
- Increase falls.<sup>38</sup>
- Cardiac, GI? <sup>39,40</sup>
- Treat depression.41
- Brain changes.<sup>42</sup>
- Addiction.43,44

One Month of Oral Morphine Decreases Gray Matter Volume in the Right Amygdala of Individuals with Low Back Pain: Confirmation of <u>Previously Reported Magnetic Resonance Im</u>aging Results<sup>95</sup>



Gray Matter Decrease in Right Amygdala

Gray Matter Increase in Pregenual Cingulate

