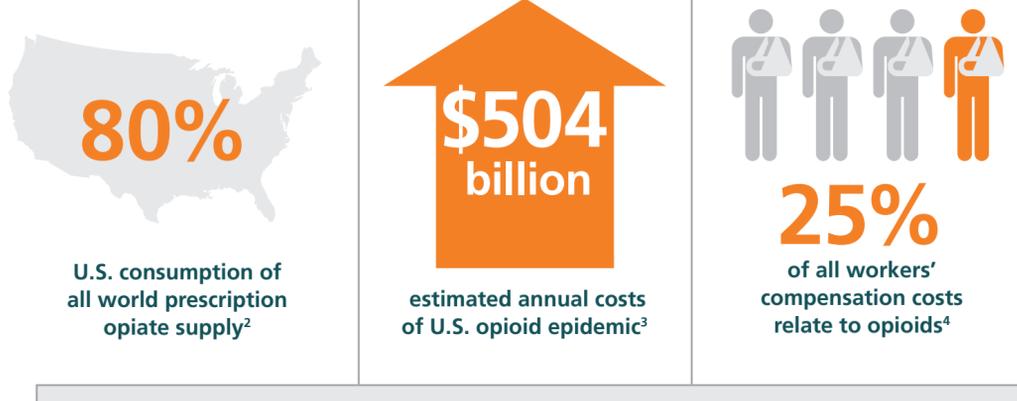


Turning point: Confronting the Opioid Epidemic

Introduction

Traditionally, doctors have shown great caution in the use of opioid drugs for pain management, outside of chronic, cancer related care. But in recent years, that caution has all but vanished. Today millions of Americans are routinely prescribed these powerful — and dangerous — drugs. **The result is a nationwide epidemic of opioid abuse, addiction and accidental death.**

Approximately 4.5 million estimated U.S. citizens are addicted to prescription opioids¹



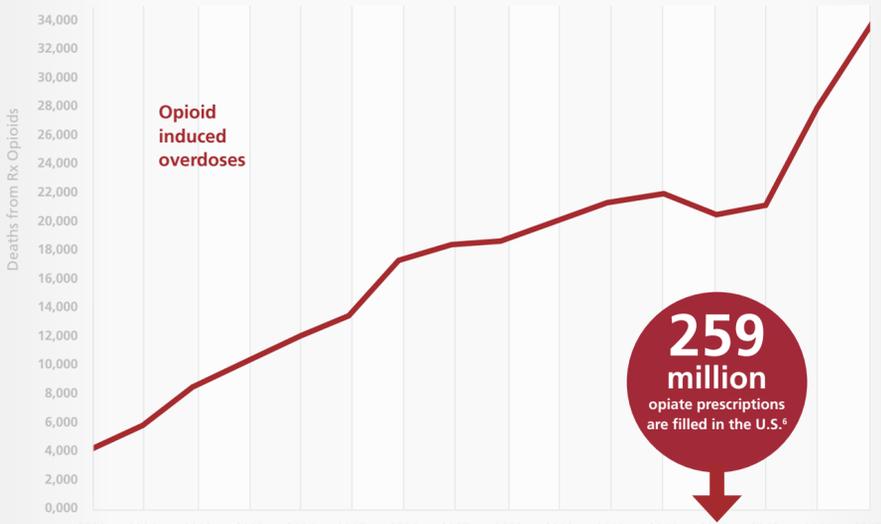
Workers who use prescription opioids for 3 months or more almost never return to work⁴

The history of opioid prescriptions

Prior to 1980s: opioids reserved for short-term, highly acute pain management, cancer treatment and end-of-life palliative care.

Opiates are now the leading cause of accidental death in U.S.⁵

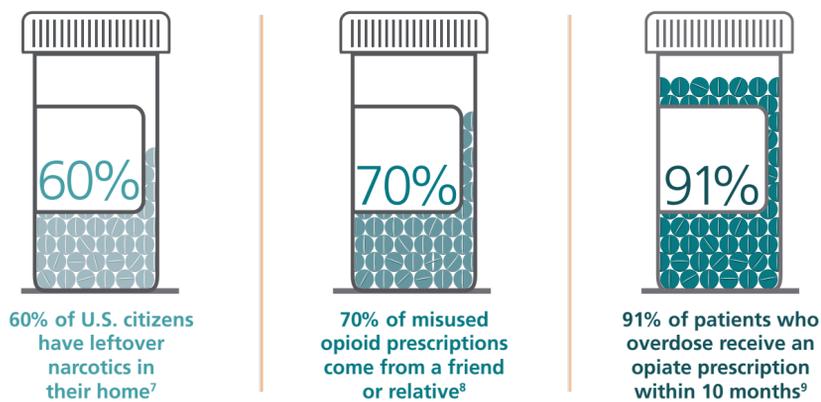
- 1986**
First key publication supporting safety of long-term opioid use.⁶
- 1987**
MS Contin[®] approved.⁶
- 1995**
Oxycontin approved.
"Pain as 5th Vital Sign" campaign launched.⁶
- 1996 onward...**
Multiple opioid products enter market. Hundreds of millions (\$) in marketing.
Opioid prescriptions skyrocket.⁶



Years 2000 – 2013: Centers for Disease Control and Prevention, NVSS, 2013. Years 2014 – 2015: MMWR/Morbidity and Mortality Weekly Report. Increases in drug and opioid-involved overdose deaths—United States, 2010–2015. Dec. 16, 2016.

2016: New CDC guidelines urge new caution in physician opioid prescribing.

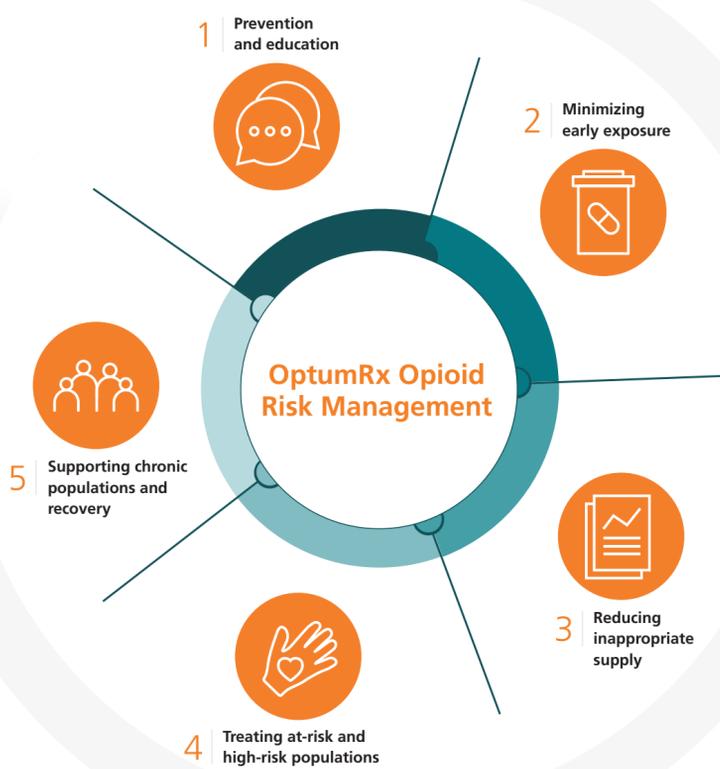
Opioids shockingly easy to obtain



OptumRx[®] Opioid Risk Management

Our five-pronged strategy

- 1. Prevention and education:**
OptumRx aggressively promotes the appropriate use of opioid drugs. We inform doctors and patients about risks, storage, safer alternatives, and proper disposal.
- 2. Minimizing early exposure:**
The powerful OptumRx claims system can prevent abuse with effective utilization management strategies in the pharmacy.
- 3. Reducing inappropriate supply:**
Our post-first-fill interventions prevent inappropriate dispensing, prescribing or use with first-fill and refill limits, provider surveillance, advanced concurrent reviews and audits.



- 4. Treating at-risk and high-risk populations**
OptumRx uses multidimensional RDUR to drive intensive pharmacist-to-prescriber case management consults to help prevent progression to chronic use.
- 5. Supporting chronic populations and recovery:**
We monitor and guide high risk patients through clinically effective treatment options, like drug level lock-in, relapse prevention, and expanded access to emergency/rescue medication.

References

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9. Ann Intern Med. 2016; 164:1-9)