The amount of opioids prescribed in the US peaked in 2010 and then decreased each year through 2015. However, prescribing remains high and vary widely from county to county. Healthcare providers began using opioids in the late 1990s to treat chronic pain (not related to cancer), such as arthritis and back pain. As this continued, more opioid prescriptions were written, for more days per prescription, in higher doses. Taking opioids for longer periods of time or in higher doses increases the risk of addiction, overdose, and death. In 2015, six times more opioids per resident were dispensed in the highest-prescribing counties than in the lowest-prescribing counties. County-level characteristics, such as rural versus urban, income level, and demographics, only explained about a third of the differences. This suggests that people receive different care depending on where they live. Healthcare providers have an important role in offering safer and more effective pain treatment.

Healthcare providers can:

- Follow the CDC Guideline for Prescribing Opioids for Chronic Pain, which includes recommendations such as:
  - Use opioids only when benefits are likely to outweigh risks.
  - Start with the lowest effective dose of immediate-release opioids. For acute pain, prescribe only the number of days that the pain is expected to be severe enough to require opioids.
  - Reassess benefits and risks if considering dose increases.
- Use state-based prescription drug monitoring programs (PDMPs) which help identify patients at risk of addiction or overdose.

Want to learn more? www.cdc.gov/vitalsigns/opioids

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6x
Providers in the highest prescribing counties prescribed 6 times more opioids per person than the lowest prescribing counties in 2015.

50%
Half of US counties had a decrease in the amount of opioids (MME*) prescribed per person from 2010 to 2015.

3x
The MME prescribed per person in 2015 was still more than 3 times as high as in 1999.

* MME, morphine milligram equivalents, is a way to calculate the total amount of opioids, accounting for differences in opioid drug type and strength.
Problem:

Despite recent declines, opioid prescribing is still high and inconsistent across the US.

The amount of opioids prescribed per person was three times higher in 2015 than in 1999.

Some characteristics of counties with higher opioid prescribing:
- Small cities or large towns
- Higher percent of white residents
- More dentists and primary care physicians
- More people who are uninsured or unemployed
- More people who have diabetes, arthritis, or disability

Higher opioid prescribing puts patients at risk for addiction and overdose. The wide variation among counties suggests a lack of consistency among providers when prescribing opioids. The 2016 CDC Guideline for Prescribing Opioids for Chronic Pain offers recommendations that may help to improve prescribing practices and ensure all patients receive safer, more effective pain treatment.

Promising actions for safer opioid prescribing

**Problem:** Too many prescriptions
**Solution:** Fewer prescriptions

In 2015, the amount of opioids prescribed was enough for every American to be medicated around the clock for 3 weeks.

(640 MME per person, which equals 5 mg of hydrocodone every 4 hours)

Use opioids only when benefits are likely to outweigh risks. Options other than opioids include:
- Pain medicines like acetaminophen, ibuprofen, and naproxen
- Physical therapy and exercise
- Cognitive behavioral therapy

Therapies that don’t involve opioids may work better and have fewer risks and side effects.

**Problem:** Too many days
**Solution:** Fewer days

Even at low doses, taking an opioid for more than 3 months increases the risk of addiction by 15 times.

If continuing opioids, ask whether benefits continue to outweigh risks. If not, use other treatments and taper opioids gradually.

**Problem:** Too high a dose
**Solution:** Lower doses

A dose of 50 MME or more per day doubles the risk of opioid overdose death, compared to 20 MME or less per day. At 90 MME or more, the risk increases 10 times.

Avoid a daily dose of 90 MME or more. If already taking high doses, offer the opportunity to gradually taper to safer doses.

For more recommendations when considering opioids for chronic pain outside of end-of-life care, see The CDC Guideline for Prescribing Opioids for Chronic Pain. The Guideline can also be used to inform health systems, states, and insurers to ensure appropriate prescribing and improve care for all people.

www.cdc.gov/drugoverdose/prescribing/guideline.html

SOURCE: CDC Vital Signs, July 2017
The Federal Government is

- Educating healthcare providers and the public about pain management, addiction, and opioid overdose and providing guidance on safe and effective pain management.
- Equipping states with resources to implement and evaluate safe prescribing practices.
- Improving access to addiction treatment and recovery services.
- Increasing access to overdose-reversing drugs, such as naloxone.
- Tracking opioid-related trends to better understand and respond to the epidemic.
- Supporting cutting-edge research about pain management and addiction.

States can

- Maximize prescription drug monitoring programs (PDMPs) by using near real-time data reporting, integrating with electronic health records, and promoting routine provider use.
- Implement and evaluate programs to improve prescribing practices.
- Use data to identify and address high-risk prescribing.
- Enhance the use of prescribing guidelines based on the best available science.
- Increase access to medication-assisted treatment for addiction and naloxone for opioid overdose.

Healthcare providers can:

- Follow the CDC Guideline for Prescribing Opioids for Chronic Pain, which includes recommendations such as:
  - Use opioids only when benefits are likely to outweigh risks.
  - Start with the lowest effective dose of immediate-release opioids. For acute pain, prescribe only the number of days that the pain is expected to be severe enough to require opioids.
  - Reassess benefits and risks if considering dose increases.
- Use state-based PDMPs which help identify patients at risk of addiction or overdose.

Everyone can

- Consider non-opioid options for pain management.
- Store prescription opioids in a secure place, out of reach of others (including children, family, friends, and visitors).
- Dispose of medications properly as soon as the course of treatment is done. For more information, visit FDA at: www.fda.gov/Drugs/ResourcesForYou.
- Get help if you’re having trouble controlling your opioid use, SAMHSA’s National Helpline: 1-800-662-HELP.
  1-800-CDC-INFO (232-4636)
  TTY: 1-888-232-6348
  www.cdc.gov

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