

# Opioids: A Strategy to Reduce Misuse and Abuse

December 1, 2015


# National Opioid Crisis

- Since 1999
  - Consumption, prescriptions, overdose and deaths all have increased approximately 300 percent
- 2013
  - 46,000 deaths from overdose
    - More than motor vehicle accidents
    - 50 percent from opioids and heroin
- Touches every community, every population

# Opioid Overuse in Missouri

# Opioid Misuse and Abuse

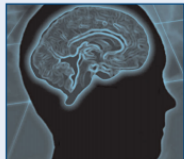
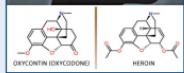
- Nationally, an alarming increase of opioid-related
  - Prescriptions
  - Consumption
  - Chronic, non-medical use
  - Abuse
  - Hospitalizations
  - Death
- Missouri hospital utilization
  - White, males under age 30
  - Rural — Northeast and Southeast
  - St. Louis metropolitan area
  - Report generated dozens of news stories across the state



**HIDI**  
**HealthStats**

*Statistics and Analysis From the Hospital Industry Data Institute*

OCTOBER 2015 ■ ALARMING TRENDS IN HOSPITAL UTILIZATION FOR OPIOID OVERUSE IN MISSOURI

OPYCODONE (ORXYCODONE)      HEROIN

According to a recent national study, inpatient hospitalizations for opioid overuse among adults in the U.S. have increased 153 percent throughout the last 20 years. Missouri has not been shielded from these national trends.


Many commonly-prescribed pain medications are within a family of analgesic opioids, which include oxycodone, hydrocodone, codeine and morphine.<sup>1</sup> Because opioids can produce a euphoric response in users by stimulating pleasure centers in the brain, they are a highly addictive form of narcotic pain medication.

The chemical composition of certain opioids is strikingly similar to illicit narcotics, such as heroin (pictured left).<sup>2</sup> Moreover, there is a growing body of evidence that prescription opioid abuse may act as a gateway to heroin abuse.<sup>3</sup> Some studies estimate as many as three out of four people with prescription opioid addiction eventually use heroin as a less expensive source of opioids.<sup>4</sup> Recent studies suggest that 2.1 million people in the U.S. abuse prescription opioids while nearly half a million people are addicted to heroin.<sup>5</sup>

National research indicates the highest rates of growth in inpatient hospitalizations have been among females and the elderly. Geographically, the largest increases have occurred in the Midwest which experienced an average growth in hospitalizations for opioid overuse of 9.1 percent per year — 4.3 times the rate of growth

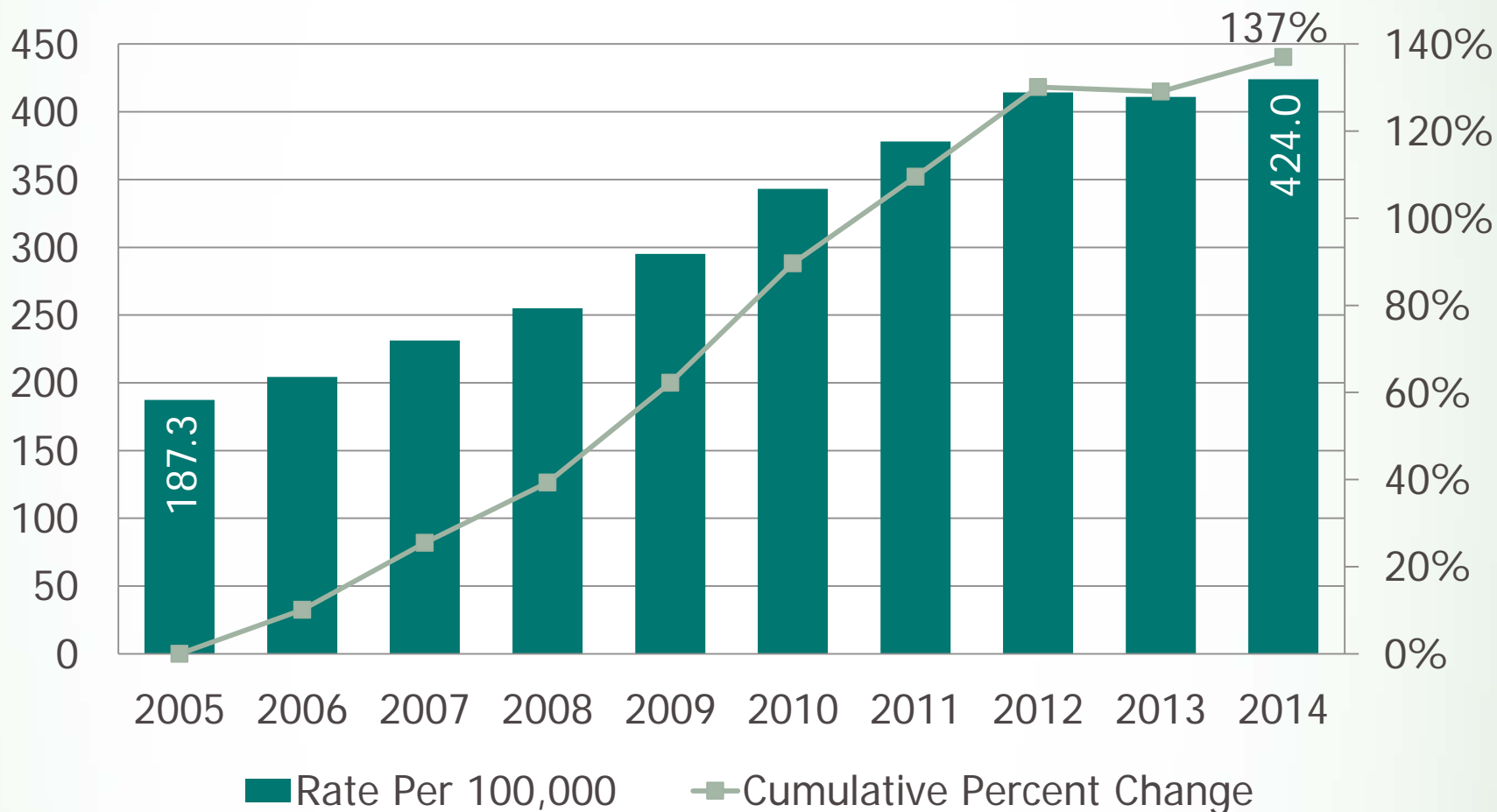
in the Northeast, 1.7 times the rate of growth in the South and 1.3 times the rate of growth in the West.<sup>6</sup> In addition, deaths resulting from prescription opioid overdoses have quadrupled in the U.S. since 1999.<sup>7</sup> This increase in abuse and overdose of prescription opioids has garnered so much attention that the U.S. Centers for Disease Control and Prevention recently described the situation as reaching epidemic status in the U.S.<sup>8</sup> Using 10 years of hospital inpatient and emergency department data, this analysis focuses on trends in hospital utilization by Missouri residents for prescription opioid overuse. Because analgesic opioid addiction can be prevented and misuse often originates with a prescription by a physician, the data analyzed excluded hospital encounters for illicit opioids such as heroin.<sup>9</sup>

The rate of inpatient hospitalizations and hospital ED visits for analgesic opioid overuse in Missouri more than doubled between 2005 and 2014.<sup>10</sup> The rate of hospital encounters with opioid overuse as a primary or contributing factor was 187 per 100,000 in 2005 and 424 per 100,000 in 2014 — an overall increase of 137 percent during the 10-year study period (Figure 1). The majority of this growth occurred between 2006 and 2012 when the state experienced an average increase of 12 percent annually. The rate of hospital inpatient and ED visits for opioid overuse in Missouri leveled off between 2012 and 2014; however, it remains high.



HOSPITAL INDUSTRY DATA INSTITUTE  
The Data Company of the Missouri Hospital Association

# Rate of Hospital Inpatient and Emergency Department Visits and Cumulative Percent Change in Missouri, 2005 – 2014

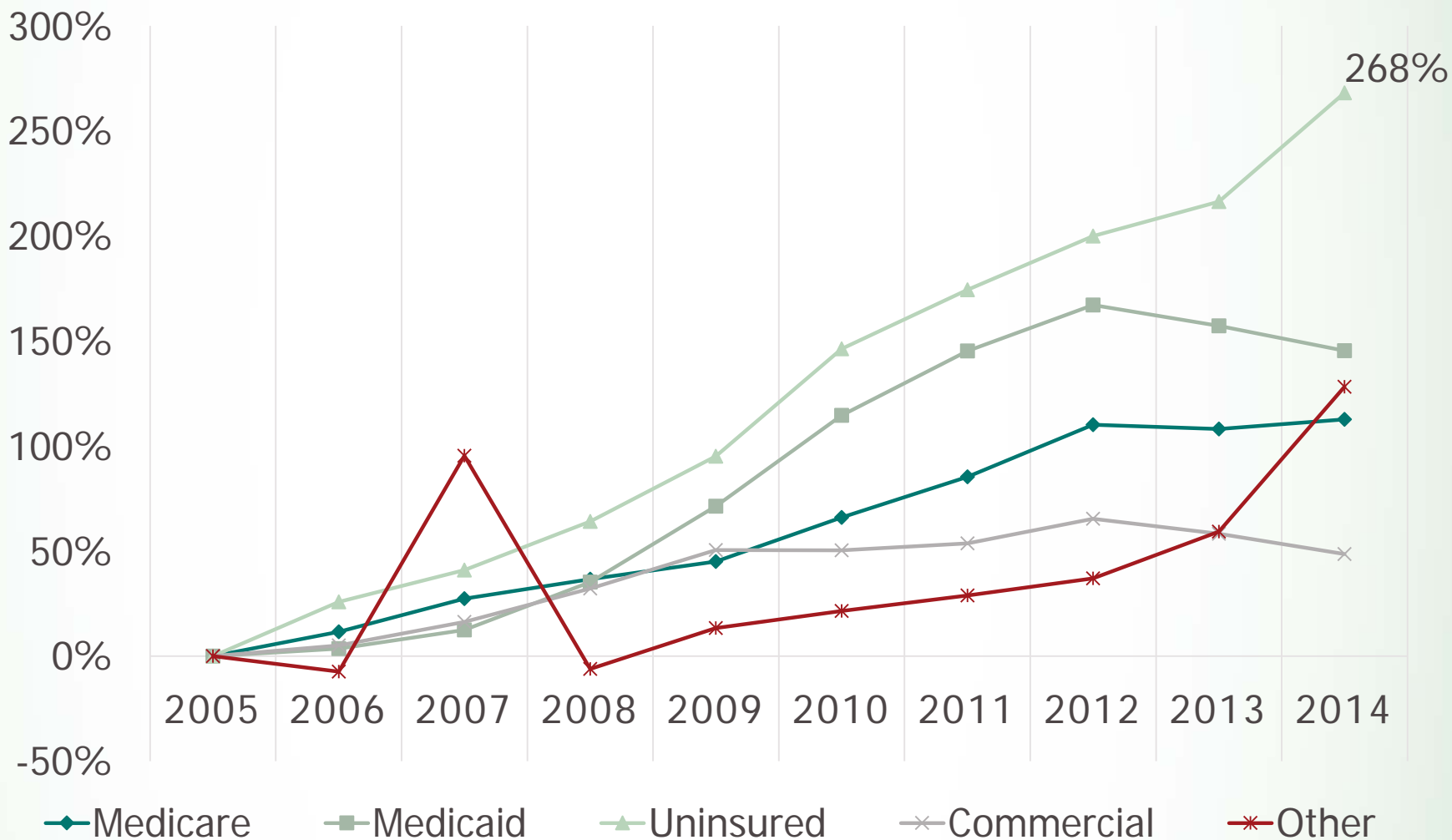


Source: HIDI HealthStats October 2015. Alarming Trends in Hospital Utilization for Opioid Overuse in Missouri

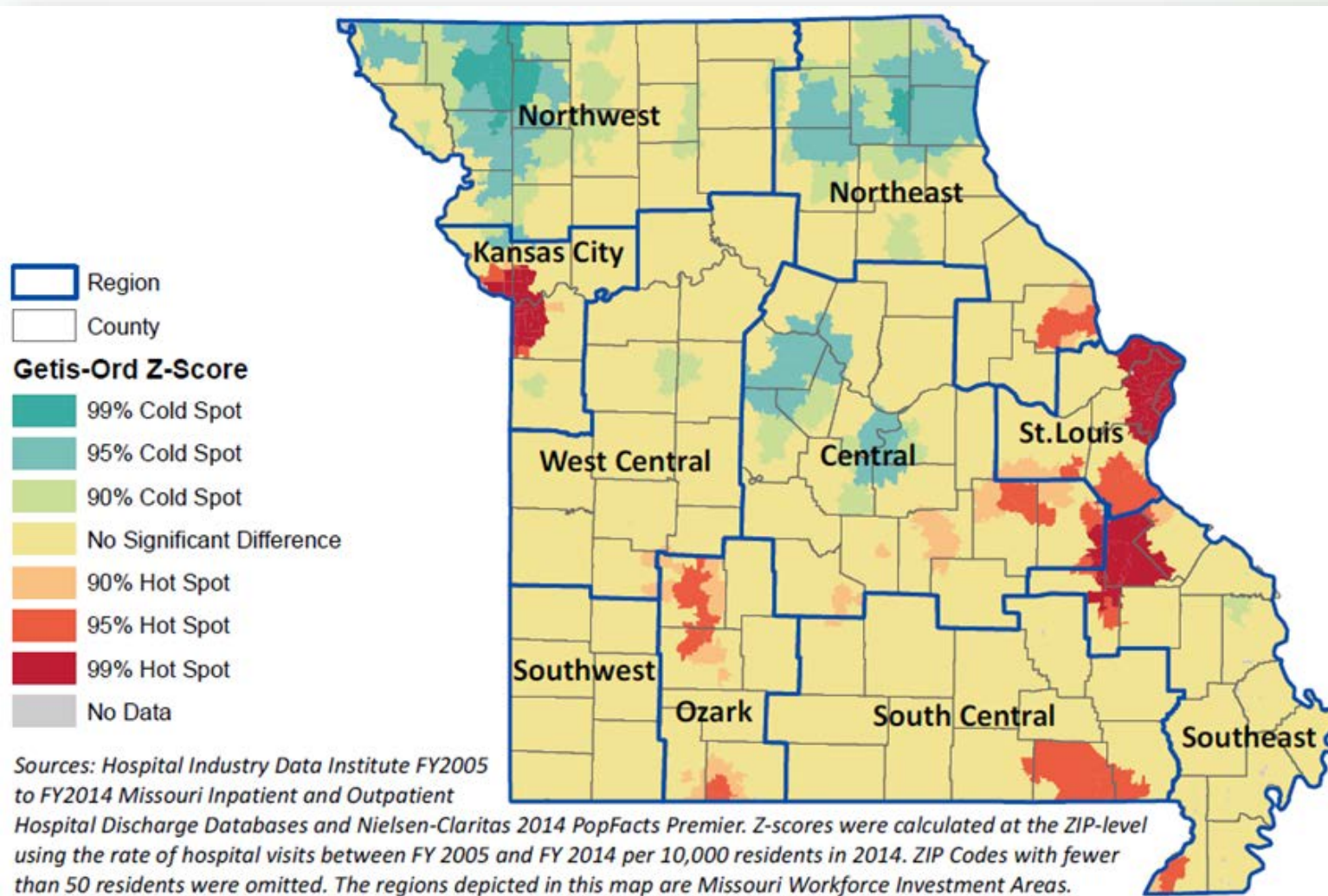
# Hospital Inpatient and Emergency Department Visits for Opioid Overuse by Patient Demographics, Region and Setting, 2005 Compared to 2014

	2005		2014		10-yr Percent Change
	Visits	Percent	Visits	Percent	
<b>Total</b>	10,847	100%	25,711	100%	137.0%
<b>Patient Gender</b>					
Female	5,500	50.7%	12,698	49.4%	130.9%
Male	5,347	49.3%	13,013	50.6%	143.4%
<b>Patient Age</b>					
Under 30	2,830	26.1%	7,251	28.2%	156.2%
30-50	4,756	43.8%	10,947	42.6%	130.2%
Over 50	3,261	30.1%	7,513	29.2%	130.4%
<b>Patient Race</b>					
White	8,485	78.2%	20,289	78.9%	139.1%
Non-white	2,362	21.8%	5,422	21.1%	129.6%
<b>Patient Region</b>					
Central	990	9.1%	2,337	9.1%	136.1%
Kansas City	1,642	15.1%	3,399	13.2%	107.0%
Northeast	331	3.1%	954	3.7%	188.2%
Northwest	284	2.6%	641	2.5%	125.7%
Ozark	1,186	10.9%	2,402	9.3%	102.5%
South Central	385	3.5%	803	3.1%	108.6%
Southeast	618	5.7%	1,644	6.4%	166.0%
Southwest	545	5.0%	985	3.8%	80.7%
St. Louis	4,466	41.2%	11,726	45.6%	162.6%
West Central	382	3.5%	796	3.1%	108.4%

# Hospital Inpatient and Emergency Department Visits for Opioid Overuse by Payer, Cumulative Percent Change 2005 to 2014



# 2005-2014 ZIP Code Hot Spots for Opioid Overuse-Related Hospital Visits





# Challenges

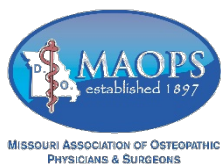
# A Provider's Perspective

- Variation in practice
- No history or source of information
- ED volume, surge and demand for care
- Regulatory
- Malpractice
- Patient satisfaction
- Manipulation
- Intimidation and threats

# Missouri Policy Efforts

- Absence of a prescription drug-monitoring program
- Absence of a registry system
- Missouri DHSS Prescription Overdose Drug Workgroup — education and policy approach
- Proposed state legislation
  - Prescription drug-monitoring program
  - Registry
  - Broader dispensing of Naloxone

# Planned Approach



# Provider Associations Partnership

- ✓ Missouri Academy of Family Physicians
- ✓ Missouri Association of Osteopathic Physicians and Surgeons
- ✓ Missouri College of Emergency Physicians
- ✓ Missouri Dental Association
- ✓ Missouri Hospital Association
- ✓ Missouri State Medical Association

# American College of Emergency Physicians: Critical Questions

- What is the utility of state prescription drug-monitoring programs?
- For adult ED patients with acute low back pain, are opioids more effective than other medications?
- For adult ED patients whom opioids are appropriate — are short-acting, schedule II, more effective than short-acting, schedule III?
- For adult ED patients with acute exacerbation of chronic noncancer pain, do the benefits of opioids on discharge outweigh the potential harm?

# Prescription Drug-Monitoring Programs

- What is the utility of state prescription drug-monitoring programs?
  - The use of a state prescription drug-monitoring program may help identify patients who are at high risk for prescription opioid diversion or doctor shopping.
- Level C recommendation, based on limited literature and consensus panels

# Adult Acute Low Back Pain

- For adult ED patients with acute low back pain, are opioids more effective than other medications?
  - ED physician should ascertain whether nonopioids and nonpharmacological therapy will be adequate
  - Opioids should be reserved for patients with more severe pain or pain refractory
  - If opioids are indicated, the lowest practical dose should be provided; less than one week
- Level C recommendation



# Form of Opioid

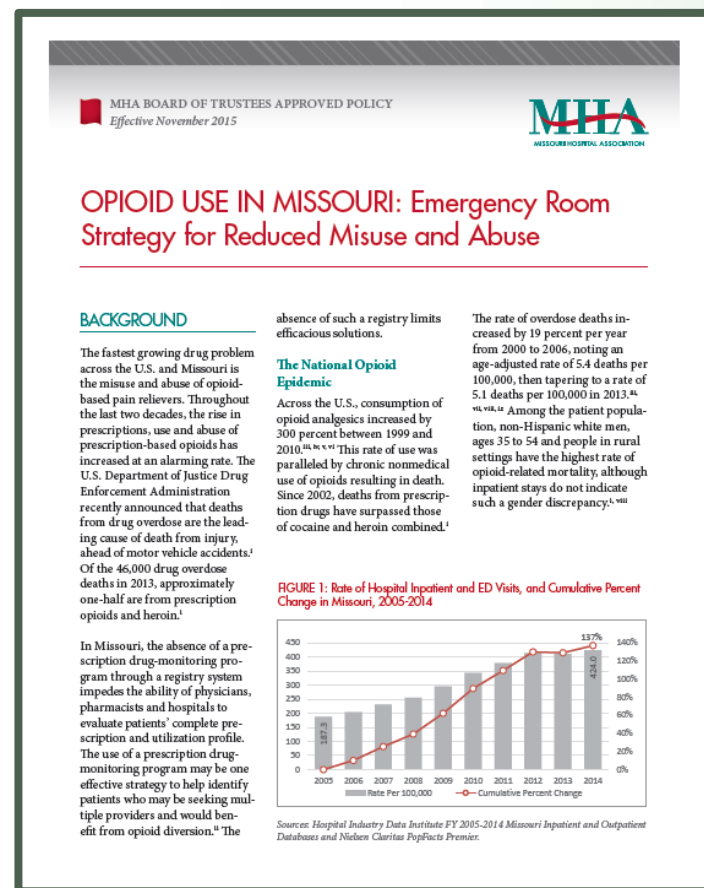
- For adult ED patients whom opioids are appropriate — are short-acting, schedule II, more effective than short-acting, schedule III?
  - For short-term relief of acute musculoskeletal pain, schedule II drugs may be prescribed if considering the patient's benefit and risk
  - Superior relief of schedule II over schedule III is inadequate
- Level B recommendation

# Opioid: Benefit Versus Harm

- For adult ED patients with acute exacerbation of chronic noncancer pain, do the benefits of opioids on discharge outweigh the potential harm?
  - ED physician should avoid routine prescribing of outpatient opioids for this patient profile
  - If prescribed, the lowest practical dose for a limited duration should be prescribed; less than one week
  - Consider the patient's risk for opioid misuse, abuse or diversion, utilize registry
  - If practicable, honor established patient-physician agreements
- Level C recommendation

# Multi-Faceted Strategy Needed

- Emergency department prescribing practices
- Primary care prescribing and pain management practices
- Quality improvement programs — adverse drug events
- Assessment for abuse risk and referral to behavioral health or treatment centers



# Missouri Recommendations

- Consistent with national and other state guidelines
- Engaged providers and associations
- Reviewed for risk and liability
- Board approval from all associations



# Emergency Department: Suggested Recommendations

- Focused pain assessment
- Evidence-based diagnosis
- Non-narcotic treatment of non-traumatic tooth pain
- Communication between emergency room and primary care physicians
- Prescriptions limited to 72 hours
- New acute conditions for shortest duration\*
- Refuse requests to provide prescriptions for refills “lost” or “destroyed”
- Avoid prescribing long-acting or controlled-release opioids; consider abuse-deterrent forms of opioids
- Counsel about handling\*
- Encourage policies allowing Naloxone dispensing

\*New recommendation added December 1, 2015.

# Recommendations: Assessment

- A focused pain assessment prior to determination of treatment plan; if the patient's pain prohibits a comprehensive assessment, then judicious use of opioids to alleviate pain is suggested. While the pain assessment should include risk factors for addiction and the incorporation of non-narcotic analgesics, a specific written, comprehensive assessment is not required.

# Recommendations: Assessment

- Diagnoses based on evidence-based guidelines and appropriate diagnostics whenever possible.

# Recommendations: Treatment

- Non-narcotic treatment of symptomatic, non-traumatic tooth pain should be utilized when possible.
- Treatment of patients with acute exacerbation of existing chronic pain should begin with an attempt to contact the primary opioid prescriber or primary care provider, if circumstances are conducive.



# Recommendations: Treatment

- For new conditions requiring narcotics, the length of the opioid prescription should be at the provider's discretion. The provider should limit the prescription to the shortest duration needed that effectively controls the patient's pain. Outpatient access to follow-up care should be taken into consideration regarding the length of the prescription.

## Recommendation: Duration

- Opioid analgesic prescriptions for chronic conditions, including acute exacerbation of existing chronic pain, management should be limited to no more than 72 hours, if clinically appropriate and assessing the feasibility of timely access for follow-up care.

# Recommendation: Replacement

- Emergency department physicians and providers should not provide prescriptions for controlled substances that are claimed to be lost or destroyed.
- Unless otherwise clinically indicated, emergency department physicians and providers should not prescribe long-acting or controlled release opioids. If indicated, prescribers should provide tamper-resistant, or abuse deterrent, forms of opioids.

# Recommendation: Handling

- When narcotics are prescribed, emergency department staff should counsel patients on proper use, storage and disposal of narcotic medications.

# Recommendation: Policy

- Beyond the emergency department, health care providers should encourage policies that allow providers to prescribe and dispense Naloxone to public health, law enforcement and family as an antidote for opioid overdoses.

# References

- Agency for Healthcare Research and Quality. (2014). Acute pain assessment and opioid prescribing protocol. Health care protocol. National Guideline Clearinghouse. Guideline Summary NGC-10206. Retrieved from <http://www.guideline.gov/content.aspx?id=47765&search=opioid>
- Cantrill, S. V., et al. (2012). "Clinical policy: critical issues in the prescribing of opioids for adult patients in the emergency department." *Annals of emergency medicine* 60(4): 499-525. doi: <http://dx.doi.org/10.1016/j.annemergmed.2012.06.013>
- Centers for Disease Control and Prevention. (2014). Opioid painkiller prescribing: Where you live makes a difference. Retrieved from <http://www.cdc.gov/vitalsigns/pdf/2014-07-vitalsigns.pdf>
- Jones, C.M., Mack, K.A., & Paulozzi, L.J. (2010). Pharmaceutical overdose deaths, United States, 2010. *Journal of the American Medical Association*, 309(7):657-659. doi:10.1001/jama.2013.272.
- Jones, C.M. (2012). Frequency of prescription pain reliever non-medical use: 2002-2003 and 2009-2010. *Archives of Internal Medicine*; 172(16): 1265-1267. doi:10.1001/archinternmed.2012.2533.
- Hedegaard, H, Chen LH, Warner, M. (2015). Drug-poisoning deaths involving heroin: United States, 2000-2013. NCHS Data Brief, No. 190. Hyattsville, MD: National Center for Health Statistics. Retrieved from <http://198.246.124.29/nchs/data/databriefs/db190.pdf>
- Maryland Hospital Association. (2015). Maryland emergency department opioid prescribing guidelines. Retrieved from <http://www.mhaonline.org/resources/opioid-resources-for-hospitals>
- McCarberg, B. (2015). The continued rise of opioid misuse: Opioid use disorder. *American Journal of Managed Care*, 21:S169-S176.
- National Center for Health Statistics. (2014). Health, United States 2013: With special feature on prescription drugs. Hyattsville, MD. Retrieved from <http://www.cdc.gov/nchs/data/hus/hus13.pdf>
- Owens, P.L., Barrett, M.L., Weiss, A.J., Washington, R.E. & Kronick, R. (2014). Hospital inpatient utilization related to opioid overuse among adults. Healthcare Cost and Utilization Project; Statistical Brief No. 177. Retrieved from <https://www.hcup-us.ahrq.gov/reports/statbriefs/sb177-Hospitalizations-for-Opioid-Overuse.jsp>
- Reidhead, M. (2015, November) Alarming trends in hospital utilization for opioid overuse in Missouri. *HIDI HealthStats*. Missouri Hospital Association. Retrieved from [http://www.mhanet.com/mhaimages/HIDI%20Health%20Stats/Opioids\\_HealthStats\\_1015.pdf](http://www.mhanet.com/mhaimages/HIDI%20Health%20Stats/Opioids_HealthStats_1015.pdf)
- Schwartz T, Tai M, Babu K, Merchant R. (2014). Evaluating the relationship between opioid analgesics and patient satisfaction among emergency department patients. *Annals of Emergency Medicine* 64(5):469-81.
- The Agency Medical Directors' Group. (n.d.). Retrieved November 22, 2015 from <http://www.agencymeddirectors.wa.gov/Files/2015AMDGOpioidGuideline.pdf>
- The New York City Emergency Department Discharge Opioid Prescribing Guidelines Clinical Advisory Group. (n.d.) Retrieved November 22, 2015 from <http://www.nyc.gov/html/doh/downloads/pdf/basas/opioid-prescribing-guidelines.pdf>

# References

- The Network for Public Health Law. (n.d.) Retrieved November 22, 2015 from <https://www.networkforphl.org/asset/qz5pvn/network-naloxone-10-4.pdf>
- The Washington College of Emergency Physicians. (n.d.). Retrieved November 22, 2015 from [http://www.washingtonacep.org/postings/tm\\_acep\\_letter\\_final.pdf](http://www.washingtonacep.org/postings/tm_acep_letter_final.pdf)
- United States Department of Justice Drug Enforcement Agency (2015, November 4). 2015 National Drug Threat Assessment Summary. Retrieved November 11 from <http://www.dea.gov/docs/2015%20NDTA%20Report.pdf>.
- Warner, M. Chen, L.H., Makuc, D.H. et al. (2011). Drug poisoning deaths in the United States, 1980-2008. NCHS NCHS Data Brief, No 81. Hyattsville, MD. Retrieved from [www.cdc.gov/nchs/data/databriefs/db81.pdf](http://www.cdc.gov/nchs/data/databriefs/db81.pdf)
- Warner, M. Chen, L.H., Makuc, D.H. et al. (2009). Increase in fatal poisonings involving opioid analgesics in the United States, 1999-2006. NCHS Data Brief, No 22. Hyattsville, MD. Retrieved from [www.cdc.gov/nchs/data/databriefs/db22.pdf](http://www.cdc.gov/nchs/data/databriefs/db22.pdf)



# MHA Staff

Leslie Porth, Ph.D., MPH, R.N.

Senior Vice President of Strategic Quality Initiatives

[lporth@mhanet.com](mailto:lporth@mhanet.com)

573/893-3700, ext. 1305

Alison Williams, RN, BSN, MBA-HCM

Vice President of Clinical Quality Improvement

[awilliams@mhanet.com](mailto:awilliams@mhanet.com)

573/893-3700, ext. 1326

Mat Reidhead, M.A.

Vice President of Research and Analytics

[mreidhead@mhanet.com](mailto:mreidhead@mhanet.com)

573/893-3700, ext. 1331