The Role of Acute Care Prescribing in the Opioid Epidemic

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Funding and Disclosures

• Funding
  • Michigan Department of Health and Human Services
  • SAMHSA
  • Blue Cross Blue Shield of Michigan
Opioid Overdose Rates are Rising

Overdose rate per 10,000 emergency hospital visits

Source: Centers for Disease Control and Prevention NCHS Data Brief 12/2017
#15 in the United States
20.4 deaths/100,000 people

Source: Centers for Disease Control and Prevention
11 million Rxs

More prescriptions than people

Deaths due to prescription opioids are 2x higher than deaths due to heroin

MDHHS 2017 report
Preventing Chronic Opioid Use and Abuse Before it Starts

Chronic Opioid Use

Opioid Diversion into the Community

Opioid Epidemic

Current Strategic Efforts
High-Risk Prescribing: 22% following surgery
Risk Factor for New Persistent Use?

- ≥100 OME/day
- 17% >1 Prescriber
- 12% Benzos
- 20% Overlapping Rx
- LA/ER Opioids

High-Risk Prescribing: 22% following surgery
Risk Factor for New Persistent Use?
Who are we prescribing for?

Opioid naive
Chronic 8%

Intermittent 30%
New Persistent Use
New Persistent Opioid Use

Who Prescribes for New Persistent Users?
Can we improve prescribing?

Yes
77% of prescriptions

Guidelines

15 Oxycodone 5 mg  
1q4-6 PRN

15 Norco 5/325 mg  
1q4-6 PRN

+ Tylenol AND Motrin

+ Patient Education
370 Patients \times 35 \text{ pills per patient} = 13,000 \text{ pills kept out of the community}
No change in calls for refills (3-4%)

No change in patient-reported pain scores

Patients consumed fewer pills
Michigan Surgical Quality Collaborative (MSQC)

ASPIRE
Anesthesiology Performance Improvement and Reporting Exchange

Counts
Deaths per 100,000
- Data unavailable
- 5 to 10
- 10 to 15
- 15 to 20
- 20 to 25
- 25 or more

Michigan Surgical Quality Collaborative (MSQC) participating sites
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Hydrocodone (Norco)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Codeine (Tylenol #3)</td>
</tr>
<tr>
<td></td>
<td>Hydromorphone</td>
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<tr>
<td></td>
<td>(Dilaudid)</td>
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<tr>
<td></td>
<td>Tramadol</td>
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<tr>
<td></td>
<td>Oxycodone</td>
</tr>
<tr>
<td></td>
<td>5 mg tablets</td>
</tr>
<tr>
<td></td>
<td>30 mg tablets</td>
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<tr>
<td></td>
<td>2 mg tablets</td>
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<tr>
<td></td>
<td>50 mg tablets</td>
</tr>
<tr>
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<td>5 mg tablets</td>
</tr>
<tr>
<td>Laparoscopic Cholecystectomy</td>
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<tr>
<td>Laparoscopic Appendectomy</td>
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<tr>
<td>Inguinal/Femoral Hernia Repair (open/laparoscopic)</td>
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<tr>
<td>Open Incisional Hernia Repair</td>
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<tr>
<td>Laparoscopic Colectomy</td>
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<tr>
<td>Open Colectomy</td>
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<tr>
<td>Ileostomy/Colostomy Creation, Re-siting, or Closure</td>
<td>40</td>
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<tr>
<td>Open Small Bowel Resection or Enterolysis</td>
<td>30</td>
</tr>
<tr>
<td>Thyroidectomy</td>
<td>10</td>
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<tr>
<td>Hysterectomy</td>
<td></td>
</tr>
<tr>
<td>Vaginal</td>
<td>20</td>
</tr>
<tr>
<td>Laparoscopic &amp; Robotic</td>
<td>25</td>
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<tr>
<td>Abdominal</td>
<td>35</td>
</tr>
<tr>
<td>Wide Local Excision ± Sentinel Lymph Node Biopsy</td>
<td>30</td>
</tr>
<tr>
<td>Simple Mastectomy ± Sentinel Lymph Node Biopsy</td>
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</tr>
<tr>
<td>Lumpectomy ± Sentinel Lymph Node Biopsy</td>
<td>15</td>
</tr>
<tr>
<td>Breast Biopsy</td>
<td>10</td>
</tr>
<tr>
<td>Sentinel Lymph Node Biopsy Alone</td>
<td>15</td>
</tr>
</tbody>
</table>
New prescribing recommendations based on patient consumption

Monitor Satisfaction, PROs

Reductions in opioid prescribing

Reductions in patient opioid consumption

NEW LEGISLATION

Begins: July 1, 2018
- 7 day limit on opioid prescriptions for acute pain
- Pharmacists may partial fill

Begins: June 1, 2018
- Mandatory MAPS registration for prescribers
- MAPS report must be reviewed for opioid prescriptions > 3 day supply

Begins: June 1, 2018
- All patients must have attestation of receiving education on high risk predictors for addiction & overdose, diversion, and proper disposal
- Parent/guardian of minors must be included in the education & attestation

Begins: March 28, 2018
- Post-overdose patient treatment options must be provided

Begins: December 31, 2018
- Must have bona fide prescriber-patient relationship for opioid prescribing
- Prescribers cannot predate refills
Hydrocodone schedule change 10/6/2014

Max 90 days
No calling or faxing
No refills

Schedule III

Schedule II

Oxycodone
Sustained increase of 35 OMEs

No change in total OMEs filled in 30 days

October 6, 2014

43,771 pills
NEW LEGISLATION

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Michigan law now limits prescribing of opioids (pain medication) for treatment of acute pain* to **seven days**

*Acute Pain typically lasts less than 3-6 months (surgical, dental & emergency pain)

You may need less depending on your condition
Oxycodone 5mg
Norco 5/325mg
Take 1-2 pills q 4-6 hours
prn pain x 7 days
Qty: 84 pills
Oxycodone 5mg
Norco 5/325mg
Take 1-2 pills q 4-6 hours
prn pain x 7 days

Qtty: You Decide!
Sources of Prescriptions Opioid Abuse

- Obtained for free from friend or relative: 55.0%
- Took from friend or relative without asking: 4.4%
- Bought from friend or relative: 11.4%
- Bought from drug dealer or stranger: 7.1%
- Prescribed by clinician: 17.3%
- Other: 4.8%

Source: CDC 2011/Drugfree.org
Michigan OPEN April 28th, 2018
Medication Take Back Event Sites

Ann Arbor  Macomb
Battle Creek  Mattawan
Chelsea  Monroe
Commerce  Ottawa County
Dearborn  Pinckney
Flat Rock  Pontiac
Flint  Roseville
Jackson  Royal Oak
Kalamazoo  Saginaw
Copper Harbor  South Haven
Lapeer  Wayne
Lenawee  Wixom
Livonia  Ypsilanti
Michigan OPEN Medication Take-Back Events

- **900 lbs** of pills collected
- **17,500** opioid pills collected
- **1976** oldest opioid collected
- **Surgery** most common reason for opioid

Opioid Takeback Drive - September 30, 2017
COMING SOON: Ability to customize all brochures with your organization’s logo!

Opioid Facts Brochure
Learn the facts about opioid pain medications including:

- What is an opioid
- Using opioids safely
- Opioid addiction
- Safe disposal of opioids

DOWNLOAD BROCHURE

Recent Articles

Dr. Brummett Awarded the 2017 James E. Cottrell Presidential Scholar Award
November 15, 2017

For 1 in 10 Cancer Patients, Surgery Means Opioid Dependence
November 8, 2017

Statewide drug takeback event nets 900 pounds of opioids & more
October 21, 2017

Dr. Brummett Speaks at U-M Wolverine Caucus
October 19, 2017
Do you know the facts about opioid pain medications?
Talking to Your Doctor about Pain Control Brochure

Ask questions and know the facts before using opioids for your pain.

- What is an opioid
- Questions to ask your provider
- Things to remember after your surgery
- Safe disposal of opioids

Download Brochure

Pain Management Techniques Brochure

Learn about strategies for managing pain and anxiety after surgery including:

- Mindful breathing
- Positive daily reflection

Download Printer-Friendly Brochure
Patient Resources

Medication Disposal Map Brochure

Learn how to safely dispose of medication using:

- Our interactive online map of Michigan disposal sites
- Other environmentally-friendly alternatives

DOWNLOAD BROCHURE

Recent Articles

Michigan OPEN sponsors “Navigating the New and Improved MAPS”
July 19, 2017

Dr. Waljee featured at PULSE: On the Front Lines of Health Care
June 16, 2017

Four hours: Six locations, 15,000 opioids out of circulation.
May 29, 2017

Michigan OPEN receives funding as part of State Targeted Opioid Response

Home / Patient Resources
A preventative approach to the opioid epidemic.

Areas of Impact

- Engaging providers
- Education
- Informing policy
- Payment reform
- Local quality improvement
- Innovative interventions
- Community outreach
- At-risk populations
- Arts and humanities
Opioid total dosage filled declined 12% from 2016 to 2017. This is the biggest single year drop in 25 years.

MMEs dispensed (billions)

<table>
<thead>
<tr>
<th>Year</th>
<th>MMEs Dispensed</th>
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<tbody>
<tr>
<td>'92</td>
<td>300</td>
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<tr>
<td>'94</td>
<td>250</td>
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<td>'96</td>
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<td>'12</td>
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<tr>
<td>'14</td>
<td>0</td>
</tr>
<tr>
<td>'16</td>
<td>0</td>
</tr>
</tbody>
</table>

Number of opioid deaths

- 50k
- 40k
- 30k
- 20k
- 10k
- 0

Opioid prescriptions peaked in 2011.

Other Key Findings

- All 50 states & D.C. had declines over 5%
- 8.9% average drop nationwide in number of opioid prescriptions
- 7.8% decline in new patients starting opioids
- 16% decline for prescriptions for 90+ MME/day

SOURCE: AP & IQVIA’s Institute for Human Data Science
SOURCE: CDC
Michigan OPEN Co-Directors

Jennifer Waljee, MD, MPH, MS
Plastic and Hand Surgery

Michael Englesbe, MD
Transplant Surgery

Chad Brummett, MD
Pain Medicine/Anesthesiology
Learn more about our work:
http://michigan-open.org

Follow the directors:
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