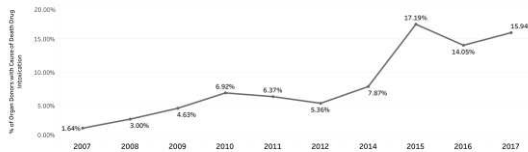


The Role of Acute Care Prescribing in the Opioid Epidemic

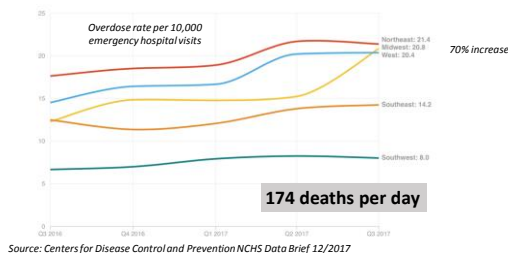
Mike Englesbe, M.D., FACS
 Director – Michigan Surgical Quality Collaborative
 Professor - Department of Surgery
 University of Michigan Medical School
englesbe@umich.edu



Overdose related organ donors in Michigan



Opioid Overdose Rates are Rising



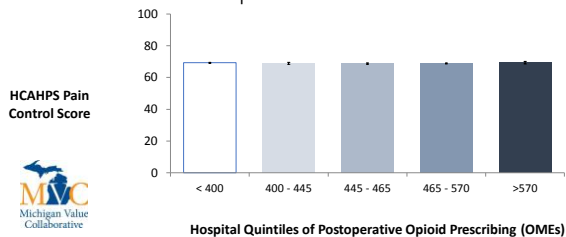
Preventing Chronic Opioid Use and Abuse Before it Starts



Why do surgeons prescribe too much?

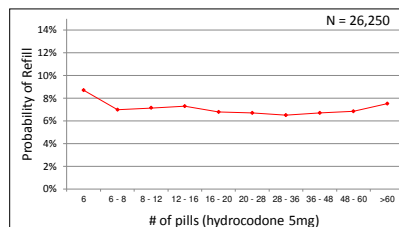


The amount of opioid prescribed after surgery was not associated with patient satisfaction



Lee JS, Hu HM, Brummett CM, Syrjamaki JD, Dupree JM, Englesbe MJ, Waljee JF. JAMA. May 16, 2017

Quantity Does Not Predict Refill



Sekhri S, Arora NS, Cottrell H, Baerg T, Duncan A, Hu HM, Englesbe MJ, Brummett C, Waljee JF. Ann Surg 2017

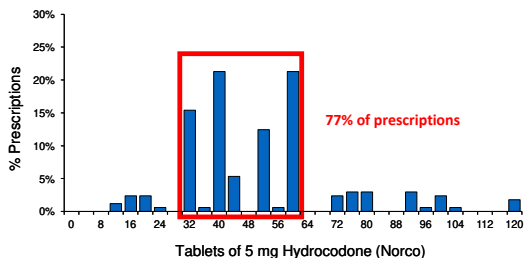
New Persistent Opioid Use



6% Brummett CM et al. JAMA Surg. 2017; 152(6).

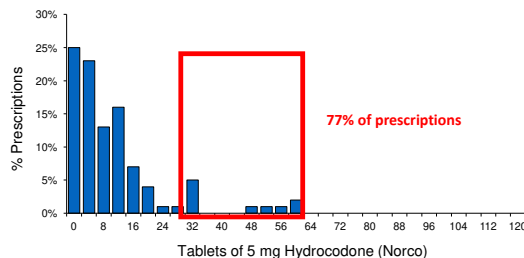


Opioids Prescribed After Surgery




Howard, R, Waljee JF, Lee JS, Brummett CM, Englesbe MJ. 2017. Reduction in Opioid Prescribing Through Implementation of Evidence-Based Prescribing Guidelines. JAMA Surgery 2017

Opioids Used After Surgery




Howard, R, Waljee JF, Lee JS, Brummett CM, Englesbe MJ. 2017. Reduction in Opioid Prescribing Through Implementation of Evidence-Based Prescribing Guidelines. JAMA Surgery 2017


Guidelines 50 pills → 15 pills



No change in calls for refills (3-4%)



No change in patient-reported pain scores



Patients consumed fewer pills

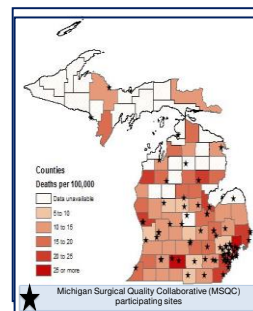
Supersize it!



David Martens, Editor & Peggy, Oliver Klein, The portion size effect on food intake: An anchoring and adjustment process? *Appetite* (2014), doi:10.1016/j.appet.2014.06.019

370 Patients x ↓35 pills per patient = **13,000** pills kept out of the community

MSQC
Michigan Surgical Quality Collaborative




M PRECISION HEALTH
UNIVERSITY OF MICHIGAN

OPEN
OPERATIONAL EXCELLENCE NETWORK

| PROCEDURE | HYDROCODONE (NORCO) 5 mg tablets | |
|--|---------------------------------------|---------------------------|
| | CODEINE (TYLENOL #3) 30 mg tablets | OXycODONE 5 mg tablets |
| | TRAMADOL 50 mg tablets | |
| Laparoscopic Cholecystectomy | 15 | 10 |
| Laparoscopic Appendectomy | 15 | 10 |
| Inguinal/Femoral Hernia Repair (open/laparoscopic) | 15 | 10 |
| Open Incisional Hernia Repair | 40 | 25 |
| Laparoscopic Colectomy | 35 | 25 |
| Open Colectomy | 40 | 25 |
| Hysterectomy | | |
| Vaginal | 20 | 15 |
| Laparoscopic & Robotic | 30 | 20 |
| Abdominal | 40 | 25 |
| Wide Local Excision ± Sentinel Lymph Node Biopsy | 30 | 20 |
| Simple Mastectomy ± Sentinel Lymph Node Biopsy | 30 | 20 |
| Lumpectomy ± Sentinel Lymph Node Biopsy | 15 | 10 |
| Breast Biopsy or Sentinel Lymph Node Biopsy | 15 | 10 |

| Procedure | Old Recs | New Recs | % Change | Data for Recommendation |
|--|----------|----------|----------|---|
| Laparoscopic Cholecystectomy | 75 | 75 | - | Howell (1) HHSQ |
| Laparoscopic Appendectomy | 75 | 75 | - | None. Refer to institutional |
| Inguinal/Femoral Hernia Repair (open/laparoscopic) | 75 | 75 | - | HHSQ. Howel "without" data |
| Open Incisional Hernia Repair | 200 | 150 | -25% | None. MSCC data 75% per centile |
| Laparoscopic Colectomy | 185 | 145 | -22% | None. MSCC data 75% per centile |
| Open Colectomy | 200 | 150 | -25% | None. MSCC data 75% per centile |
| Ileostomy/Colectomy Creation, Re-attng, or Closure | - | 200 | - | None. MSCC data 75% per centile |
| Open Small Bowel Resection or Enterostomy | - | 150 | - | None. MSCC data 75% per centile |
| Thyroidectomy | - | 50 | - | None. MSCC data 75% per centile |
| Hysterectomy | | | | |
| Vaginal | 125 | 100 | -20% | None. MSCC data 75% per centile |
| Laparoscopic & Robotic | 175 | 125 | -29% | None. MSCC data 75% per centile |
| Abdominal | 220 | 185 | -16% | None. MSCC data 75% per centile |
| Wide Local Excision ± Sentinel Lymph Node Biopsy | 150 | 150 | - | Michigan Medicine institutional guideline |
| Simple Mastectomy ± Sentinel Lymph Node Biopsy | 150 | 150 | - | Michigan Medicine institutional guideline |
| Lumpectomy ± Sentinel Lymph Node Biopsy | 75 | 75 | - | HHSQ |
| Breast Biopsy | 75 | 37.5 | -50% | HHSQ |
| Sentinel Lymph Node Biopsy Alone | - | 75 | - | Michigan Medicine institutional guideline |

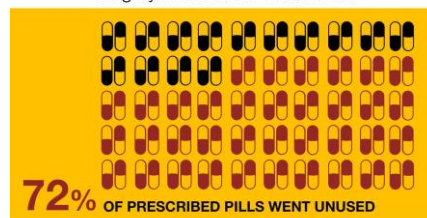
BCBSM Payment for Pain Optimization Pathway following Surgery

7/1/2018: Enhanced surgical fees for surgery not associated with a post-operative opioid prescription via modifier -22

- Laparoscopic Cholecystectomy
- Thyroidectomy
- Inguinal Hernia Repair
- Sinus Surgery
- Bariatric Surgery
- Prostatectomy



Most Opioids Prescribed for Outpatient General Surgery Procedures Go Unused



Hill et al. Ann Surg. Sept 2016. ANNALES OF SURGERY
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Michigan OPEN Sept 2017 Medication Take-Back Event

A preventative approach to the opioid epidemic. OPEN OPIOID PRESCRIPTION ENGAGEMENT NETWORK

Areas of Impact

- Engaging providers: Education, Informing policy
- Payment reform, Local quality improvement, Innovative interventions
- Community outreach: At-risk populations, Arts and humanities

The Team, The Team, The Team

