Collaboration of ACS, AAOS, AANS and HCSC to Share Resources and Implement an Opioid Sparing Pain Control Patient Education Program for Hip, Knee and Spinal Procedures

## **Opioid Sparing Pain Control Program**

## Evaluating the Effectiveness of a Safe Pain Control After Surgery Patient Education Risk Reduction Program

American College of Surgeons
American Academy of Orthopedic Surgeons
American Association of Neurologic Surgeons
Health Care Services Corporation (Blue Cross Blue Shield)

Kathleen Heneghan PhD, MSN, RN, FAACE
Assistant Director Patient Education Programs
Tarra Barot PhD
Manager Patient Education and Safe Pain Control Program
American College of Surgeons



## **Conflicts and Disclosures**

I have nothing to disclose.





## Objectives

- 1.Describe the impact of patient education and reinforced messaging to reduce long-term opioid use in surgical patients.
- 2.Identify professional association and insurance provider resources (such as perioperative interventions) used to enhance recovery and reduce opioids after hip, knee, and spine procedures.
- 3.Describe how to incorporate Safe Pain Control programs into your clinical practice and participate in a quality improvement program.
- 4. Align professional pain management practices with current guidelines for opioid reduction.





## Faculty

Jonah J Stulberg, MD, PhD, MPH, FACS

Vice Chair of Research Program Director, Complex Abdominal Wall Reconstruction Fellowship Director, Texas Hernia Center Associate Professor of Surgery Department of Surgery

- Ben Kurian, MD
   Executive Medical Director
   Risk Identification & Outreach Program
   Health Care Services Corporation
- Mary F. Carnduff, MD, MBA, FAAOS
   Military Assistant to the Under Secretary of the Air Force, Pentagon
   Washington DC
- Owoicho Adogwa, MD, MPH
   Assistant Professor, Department of Neurosurgery
   University of Cincinnati









### Mission

Improve the health and well being of surgical patients through the development, delivery, and continued evaluation of effective and high-value education that is accessible to whom, when and where it matters most.



## Be informed about how you can work with your surgical team to **safely manage your pain**.

# SAFE AND EFFECTIVE PAIN MANAGEMENT

#### Your surgical team will work with you to:

- Screen for current opioid use and risk for overuse
- Use alternatives to opioids whenever possible
- Educate you about:
  - Using the lowest dose of opioids for the shortest amount of time
  - Safely getting rid of any unused opioids
  - Knowing the signs of opioid overdose



From the operating room to home—your surgical team cares about your best recovery.



## Background on the Collaboration between ACS and HCSC

American College of Surgeons (ACS) and Health Care Services Corporation (HCSC) entered into a collaboration to provide ACS-endorsed education to high-risk members approved for a musculoskeletal surgery (ie, hip or knee replacements, specific spine surgeries)

High-risk members (RIOSORD): Many of these members are already taking opioids prior to surgery and/or have comorbidities that put them at an increased risk for long-term opioid use following surgery









Who needs help with managing pain control in high-risk patients currently using opioids or with OUD?



## Polling Questions

## Opioid Sparing Patient Education Program

(for Hip, Knee and Spinal Procedures)

Jonah Stulberg, MD, PhD, MPH, FACS

Associate Professor of Surgery
Vice Chare of Research
University of Texas, Health Sciences Center at Houston
McGovern Medical School

I do not have any relevant financial relationship(s) with any commercial interest that pertains to the content of my presentation.

## Opioids in the News: 10 years ago

Opioid Prescriptions and Addictions

Are on the Rise in the US

Forbes - September 16, 2013

Painkillers Now Cause More Than Half of Drug Related Deaths Worldwide

PRWeb - September 6, 2013

Attorneys General Call for Tamper-Resistant Versions of Generic Prescription Pain Relievers

National Association of Attorneys General - March 11, 2013

CVS Cuts Off Docs Who Prescribe

Too Many Narcotics

NBC News - August 22, 2013

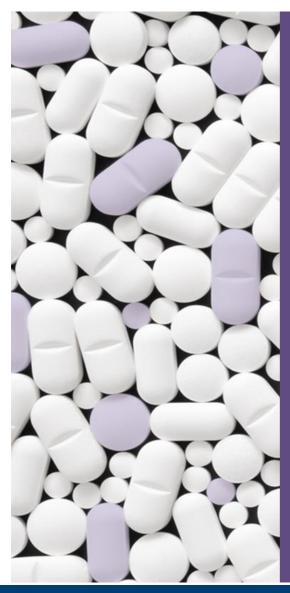
FDA Restricts Long-term Opioid Use to Combat Abuse

Medscape - September 13, 2013

NYC Limits Emergency Department Opioid Prescriptions

Emergency Physicians Monthly - February 8, 2013

## **Opioid Crisis**

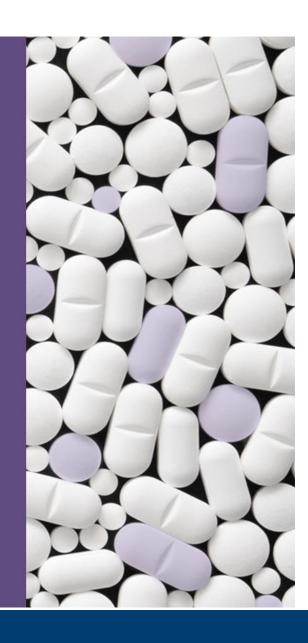


From 1999 to 2016,

197,000

people died from overdoses related to prescription opioids.

www.cdc.gov

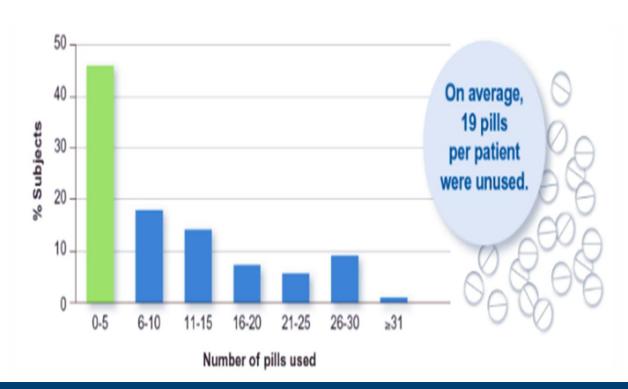


## Over Prescribing Can Lead to Diversion

Excess pills are a readily available source for non-medical use

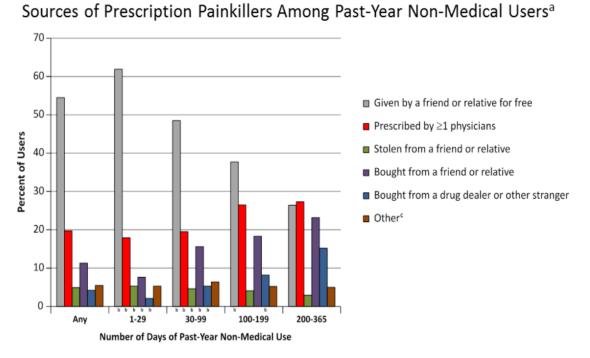
#### **Surgeons Tend to Overprescribe**

- >50% of pts use ≤5 pills
- Average Prescription = 30 pills



#### **Diversion is Common**

- Diversion = >70% of Non-Medical Use
- Diversion is non-medical use of legally prescribed prescription medication



### **Current Practice**

#### **Lower Default Dosing**

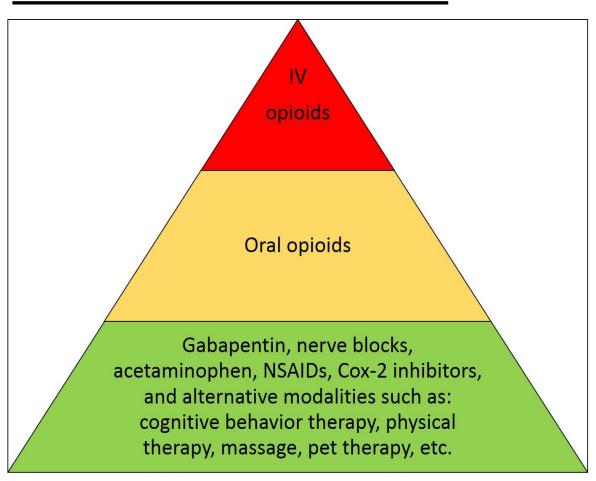
Partial Mastectomy Laparoscopic Cholecystectomy Open Inguinal Hernia Repair Laparoscopic Inguinal Hernia Repair	5 15 15	
		15

#### **Make Disposal Easier**



## We've Come a Long Way

#### **Rethink Pain Control**



#### **Patient Education**

## Safe and Effective Pain Control After Surgery facs.org/safepaincontrol



#### How will my pain be controlled after my surgery?

- Your surgical team will put together a pain plan for you. The plan tells you how much and when you should take each medication. It will also include:<sup>1,2</sup>
  - Screening for current opioid use and risk for misuse.
    - Tell your surgeon if you have chronic pain, depression, ADHD, substance use disorder (SUD) (by you or a family member), or take opioids.<sup>3</sup> These can increase your risk of long-term opioid use and your surgeon will adjust your pain plan to make it safer.
  - Education to
    - \* Use non-opioids first, like ibuprofen (Motrin, Aleve) and acetaminophen (Tylenol)
    - Take the lowest does of opioids for the shortest time for severe pain
  - · Safely store and dispose of any unused opioids

### Patient Education Works

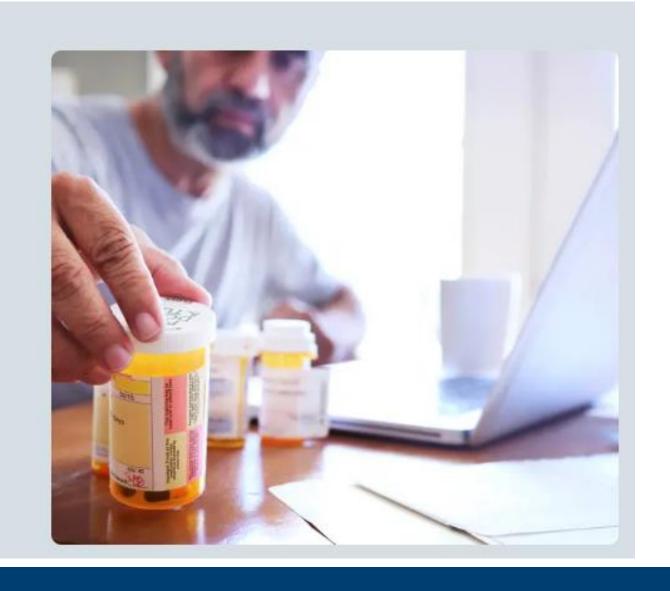
- Improves patient empowerment
- Decreases patient opioid use
- No decrease in patient satisfaction scores
- Improved adherence to "safe" opioid practice
  - Not sharing medications
  - Not saving medication for future use

## **ACS Patient Education Resources**

SAFE PAIN CONTROL

## How to Safely Manage Pain After Surgery

Opioid Abuse and Surgery

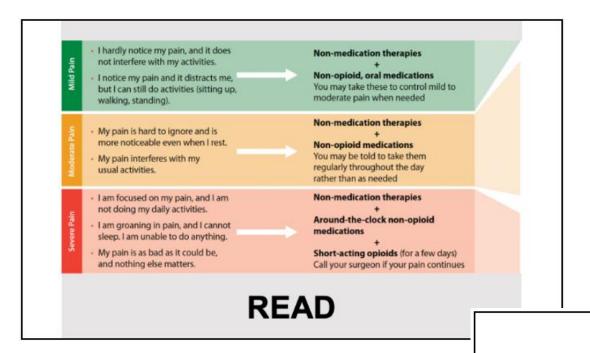


## Collaboration: ACS, AAOS, AANS and HCSC

#### Lower long-term opioid use following musculoskeletal surgery

- All patients will be directed to a toolkit in their pre-approval letter: <a href="https://pain-reduction.com/toolkit">https://pain-reduction.com/toolkit</a>
- Case managers will provide additional education to high-risk patients that:
  - Sets expectations on the use of non-opioid medications,
  - Maintains function in patients versus a zero-pain expectation,
  - Emphasizes safe opioid storage and disposal to reduce diversion.
- Surgeon outreach and education will also occur through collaborations between ACS, AAOS, and AANS
  - Surgeons are aware of HCSC interventions and can reinforce the education.

## https://pain-reduction.com/toolkit







**TELL US WHAT YOU THINK** 

## Risk Identification and Outreach (RIO)

## **About Us**

RIO is HCSC's multidisciplinary collaboration (Behavioral Health, Physical Health, Pharmacy and Clinical Data Technology Groups) that focuses on mining, organizing and visualizing clinically actionable data for at-risk member populations – and implementing clinically appropriate and effective interventions at both member and provider levels.

#### Opioid High-Risk

Reduce potential for opioid-related adverse events

Cohort 1

#### Opioid Early Intervention

Reduce the number of members who become long-term opioid users

Cohort 2

## Untreated Depression Pilot

Optimize identification and treatment for members with depression.

Cohort 3

#### **Key Areas of Collaboration**



#### **Data Driven**

Process to Identify and Risk Stratify Members for Interventions

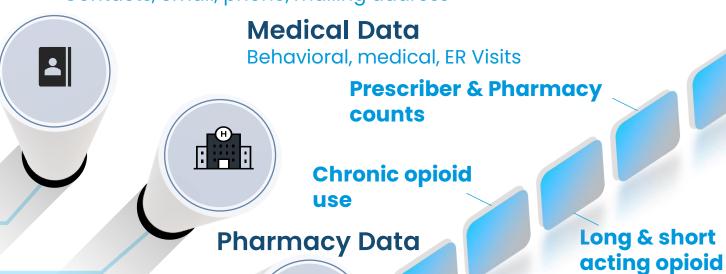


#### **Demographics**

Cost

Monthly/yearly

Contacts, email, phone, mailing address



R<sub>k</sub>

Milligram
Morphine
Equivalent (MME)
Trend

use

Concurrent use:

suboxone products

Benzodiazepine,

muscle relaxant,

gabapentin, or

#### **Risk Score**

- Risk Index for Overdose or Serious Opioid-Induced Respiratory Depression
- Opioid Induced Respiratory Depression (OIRD) probability based on calculated Risk Index

#### **RIO Opioid High Risk (Cohort 1)**

Go-live date: July 1, 2019



#### **Member Population**

At high risk for opioid-related adverse event due to being on opioid prescriptions with high morphine milligram equivalent (MME), dangerous combinations and/or multiple providers

#### **Member Outreach**

Robust member education

- Safer alternatives for pain management
- Narcan (Naloxone) education
- Safe medication disposal
- Risks and side-effects of opioids
- Pain management referrals (if needed)
- Various needs identified during assessment



- Low touch Letter outreach including member pharmacy claims data to encourage provider to evaluate the information for appropriate treatment
- High-Touch Phone outreach by RIO Medical Director to provider(s) for peerto-peer engagement and collaboration



#### Goal

Reduce potential for opioid-related adverse events

## RIO Opioid High Risk Cohort Evaluation (Preliminary Results)

#### SIGNIFICANT FINDINGS

## DAS evaluation model comparing:

- 1. RIO engaged members
- RIO non-engaged members (UTR/refusals)
- 3. Matched control population

- Nearly a 2-fold increase in use of Suboxone and Narcan
- Increased outpatient BH and SUD professional visits
- Limitations -- Matching

#### **IN-GROUP ANALYSIS**

- Three distinct tiers (High MME, Mid MME, Low MME)
- ' Significant decrease in average daily MME in the High MME group
- Significant decrease in the number of unique opioid prescribers in the Low MME group

#### **OUTLIER OPIOID PRESCRIBER PROGRAM OVERVIEW**

Go-live: September 2020



Designed to be **educational**, not punitive

Measures provider opioid-prescribing patterns by calculating metrics such as morphine equivalent dosage (MED), days supply, and dangerous combinations



Utilizes anomaly detection to identify outlier prescribers across multiple dimensions



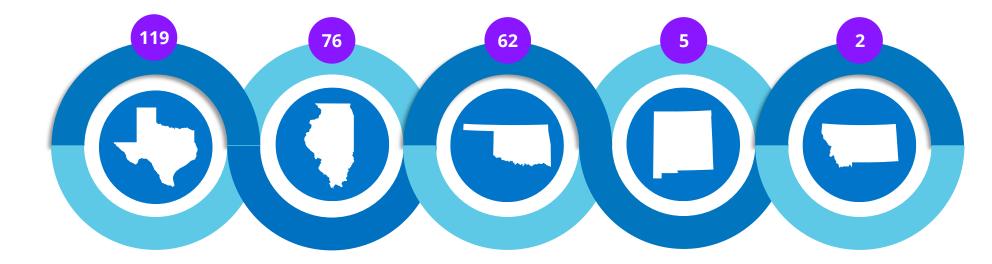
Our clinicians can interact with internal RADAR tool to easily interpret provider insights

• Collaboration with Provider Network Data Science (PNDS)



Outreach to outlier providers upon request

262 **Providers Mailed** (through 6/23)



#### **OUTREACH OVERVIEW**

Go-live date: September 1, 2020

#### **TARGET AUDIENCE**

Providers exhibiting **outlier** opioid-prescribing behavior compared to **peers** in the same specialty & state. Initial outreach focused on Family Practice & Internal Medicine.

#### **PROVIDER OUTREACH**

Educational outreach letters to outlier providers. The letter provides providers with insights on their prescribing patterns, tips for managing pain, encourages self-assessment, and provides educational resources. A feedback response form allows interaction with the RIO team.

#### GOAL

Reduce opioid overprescribing in order to reduce risk of opioid-related adverse events.



#### **RIO/ACS Collaboration**

Go-live date: 9/5/2023



#### **Member Population**

Undergoing total hip arthroplasty, total knee arthroplasty, shoulder arthroplasty or laminectomy

#### **Member Outreach**

Low Touch - Letters to all targeted members. The letter provides members with link to ACS website: tips for managing pain, avoiding opioid-related complications and safe medication disposal.

**High Touch** - Targeted Case Manager outreach to members with increased risk for becoming long-term opioid users. CMs will complete ACS survey with patient.

#### **Provider Outreach**

**High-Touch -** Phone outreach by RIO Medical Director to provider(s) for peer-to-peer engagement and collaboration



#### Goal

Reduce the number of members who become long-term opioid users (new, persistent post-op)

#### **Goals and Objectives**

- 1. Assess the impact of opioid patient education program on post-operative opioid utilization for members undergoing targeted surgical procedures.
- 2. Identify patterns associated with new, persistent post-operative opioid utilization.
- 3. Assess provider engagement through collaboration with ACS

Approval for study have gone through IRB as well as HCSC Privacy and Legal Services. De-identified data will be shared with and analyzed by ACS with an end goal to improve quality of care.

#### **THANK YOU and Contact Info**

If you have an HCSC member (has a BCBSTX, BCBSIL, BCBSOK, BCBSNM, or BCBSMT plan) that you feel could benefit from Case Management support email us at:

RIO@bcbstx.com

### **Polling Questions**

#### Perioperative Interventions

- Patient Selection
  - Treatment algorithm
  - Pre-existing conditions
- Patient education
  - Opioid use education
  - Expectation management
- Perioperative multi-modal regimen



#### **AAOS** Resources



#### **For Professionals**

#### **Quality Programs and Guidelines:**

- <u>Pain Alleviation Toolkit</u> was developed to offer clinicians the resources needed to support and help their patients. The toolkit includes opioid prescribing guidelines, nonopioid alternatives for pain management, patient education materials on opioid use and addiction, and resources for healthcare providers seeking to treat patients with an opioid disorder. It also includes tools for assessing and managing patient pain and information on how to talk to patients about pain management and opioid use.
- The Clinical Practice Guideline for Pharmacologic, Physical, and Cognitive Pain Alleviation for Musculoskeletal Extremity/ Pelvis Surgery (2021)
- Appropriate Use Criteria for Pharmacologic, Physical, and Cognitive Pain Alleviation for Musculoskeletal Extremity/ Pelvis Surgery (2021)

#### Webinars:

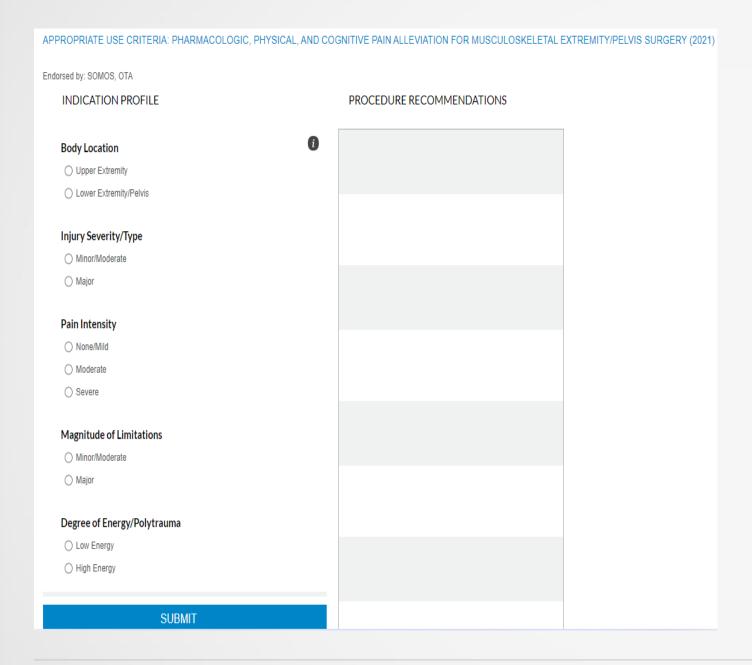
- Opioid Use Disorder Management for Orthopaedic Surgeons
- How to Manage a Chronic Pain Patient Requiring Orthopaedic Surgery
- AAOS Combatting the Opioid Crisis: Evidence-Based Pain Management and Evidence Based Treatment

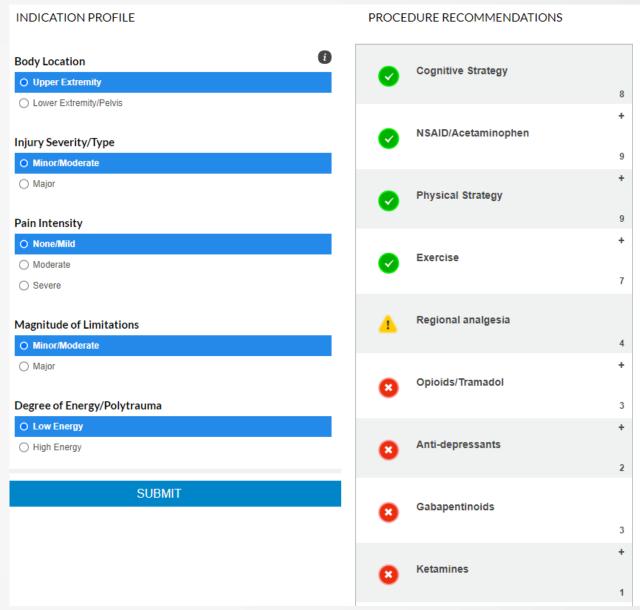
#### **Publications:**

- JAAOS
- AAOS Now



#### **AAOS** Resources







Appropriate Use Criteria: Pharmacologic, Physical, and Cognitive Pain Alleviation for Musculoskeletal Extremities/ Pelvis Surgery

#### **AAOS** Resources

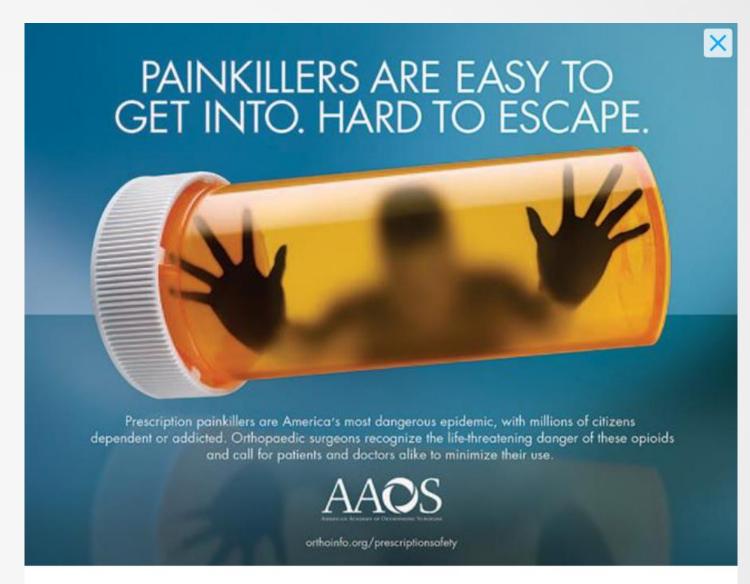
#### **For Patients**

#### **Publications:**

- Alternative Methods to Help Manage Pain After Orthopaedic Surgery
- September is Pain Awareness Month:
   Orthopaedic surgeons offer tips for safely
   managing pain, disposing of prescription
   pain medications and minimizing opioid use

#### Web Information:

- Prescription Drug Safety in Orthopaedic Surgery
- Safe Use, Storage, and Disposal of Opioid Medications
- Pain Relief Video



The AAOS public service campaign "Painkillers Are Easy to Get Into. Hard to Escape." highlights that AAOS recognizes the dangers of opioid use and abuse.



## Dr Adogwa's slides

## Polling Questions

#### **Opioid Sparing Pain Control Program**

# Evaluating the Effectiveness of a Safe Pain Control After Surgery Patient Education Risk Reduction Program

American College of Surgeons
American Academy of Orthopedic Surgeons
American Association of Neurologic Surgeons
Health Care Services Corporation (Blue Cross Blue Shield)

Kathleen Heneghan PhD, MSN, RN, FAACE
Assistant Director Patient Education Programs
Tarra Barot PhD
Manager Patient Education and Safe Pain Control Program
American College of Surgeons



#### IMPLEMENTATION

# Evaluating the Effectiveness of a Safe Pain Control After Surgery Patient Education Risk Reduction Program Protocol #Pro00055407

- 1. Complete the survey tell us current practice and what you need 3-5 minutes.
- 2. Register if you want CME Credit
- 3. Use the guidelines
- 4. Review and Use the Patient Education Materials
  - 1. Website
  - 2. Print
  - 3. Office Poster
  - 4. Share with Office Staff for Reinforcement
- 5. Utilize the Case Managers if applicable.



## Complete the Survey

Survey Link

https://redcap.link/h8y79z3េង្គឺ



- No identifiers unless want resources and comes to ACS Staff only.
- Request State and Zip Code

#### **Location By State**

State	Opioid Prescribing Rate per 100 Americans
Illinois	40.2
Montana	46.1
New Mexico	40.5
Oklahoma	59.3
Texas	37.9
Table 1. Opioid Dispense Rate (CDC, 2021)	

AVERAGE DAILY AMOUNT 45.3 MME
CDC RECOMMENDS NARCAN OVER 50MME

#### Location By Zipcode

Counties with Higher Prescribing

- Generally smaller cities or larger towns
- Higher percentage of white residents
- •Higher number of dentists and primary care physicians per capita
- More people who are uninsured or unemployed
- •More residents who have diabetes, arthritis, or a disability<sup>1</sup>

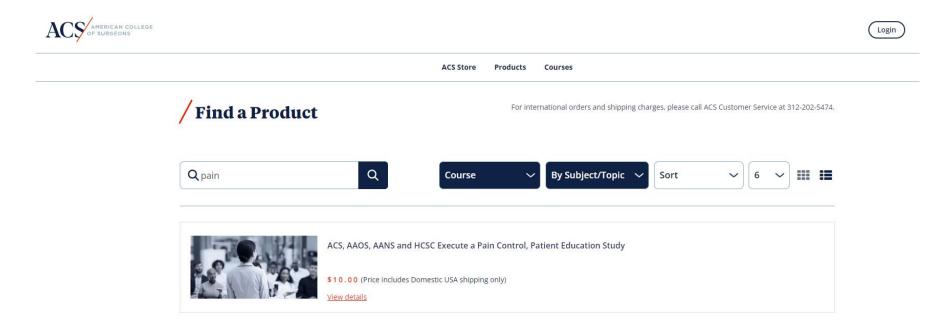
#### Pain Management Webinar | ACS (facs.org)

To obtain 1 hour of CME, you will have to log in to <a href="learning.facs.org">learning.facs.org</a> (available Aug 30) and pay a processing fee of \$10 and complete post-test and evaluation. Will support state requirements.

#### **Program Title**

ACS, AAOS, AANS and HCSC Execute a Pain Control Patient Education Study.

You are able to go directly to the post test.



### Register for CME

#### USE THE GUIDELINES



Search

#### Morbidity and Mortality Weekly Report (MMWR)

CDC Clinical Practice Guideline for Prescribing Opioids for Pain — United States, 2022

Recommendations and Reports / November 4, 2022 / 71(3);1-95

Deborah Dowell, MD1; Kathleen R. Ragan, MSPH1; Christopher M. Jones, PharmD, DrPH2; Grant T. Baldwin, PhD1; Roger Chou, MD3 (VIEW AUTHOR AFFILIATIONS)

CDC Clinical Practice Guideline for Prescribing Opioids for PainUnited States, 2022 | MMWR

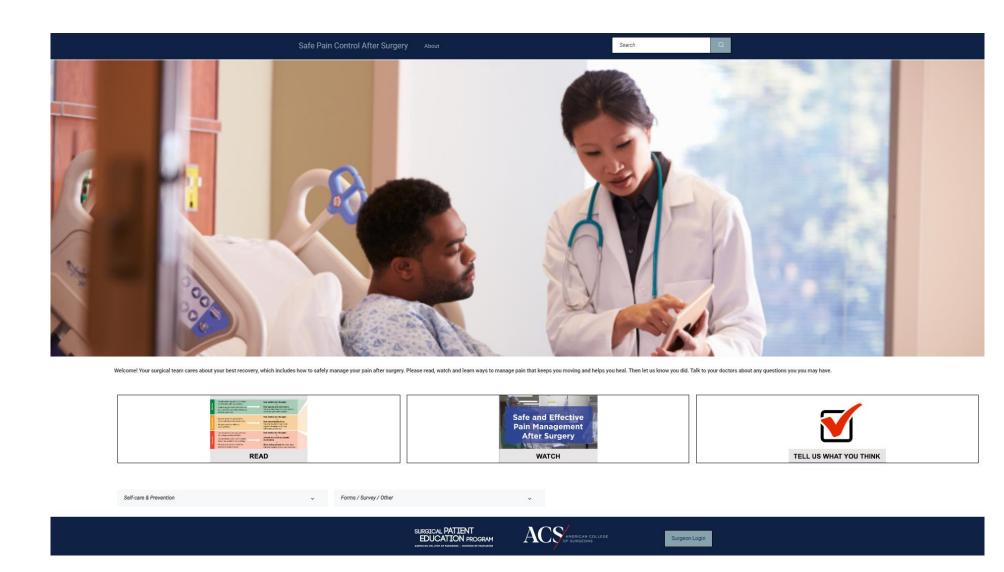


Lawal (2020) reported less than 13% of surgeons have a pain protocol for patients who are opioid dependent (Lawal, Gold, Murthy, & etal, 2020).

An ACS survey in 2020 (n=257) found that only 30% of surgeons were using a standardized approach or guideline for patients with opioid use disorder. (Burgess, Heneghan, Baort & Stulberg, 2020)

## Patient Education

# Use the Website



Safe Pain Control After Surgery of - Patient Education (pain-reduction.com)

#### Patient Education Use the Poster

#### **Safe** Pain Control After Surgery

Read | Watch | Tell us what you think



Learn ways to manage pain that keeps you moving and helps you heal

www.pain-reduction.com

Scan the QR code to view the website







## Patient Education Use the Brochures Reinforce Key Content

Be informed about how you can work with your surgical team to **safely manage your pain**.

#### Your surgical team will work with you to:

- Screen for current opioid use and risk for overuse
- Use alternatives to opioids whenever possible
- Educate you about:
  - Using the lowest dose of opioids for the shortest amount of time
  - Safely getting rid of any unused opioids
  - Knowing the signs of opioid overdose



From the operating room to home—your surgical team cares about your best recovery.

No Charge – Just Pay Shipment

Safe and Effective Pain Control After
Surgery, Adult Brochure | ACS
(facs.org)



Quality Improvement

- ADD A LINK TO YOUR WEBSITE
- Add a banner to your website that links to painreduction.com.

## Data Analysis

- Demographic data (age, gender, location (zip code).
- Pharmacy claims data (pre-surgical opioid use, 30, 60 and 90-day opioid use post-surgery, high-risk medication filled (30-day pre and 30-60 and 90-day post-operative benzodiazepines, muscle relaxants, anti-depressant, methadone, buprenorphine, and ADHD medication stimulant and non-stimulant use)
- Post-operative services (home care aid, home care nurse visit, PT visits, additional MD visits or calls, emergency room visits)
- Discharge location rehab, subacute rehab,
- Diagnosis association with the procedure
- Co-morbidities that could affect pain control including depression, alcohol/substance use, anxiety, ADHD, bipolar, tobacco use, marijuana use (ICD10 coding), overweight/obese
- RIOSORD Risk of opioid related death score
- ER visits/hospitalizations 3 months pre and 3 months post
- Non-eligible dollars PMPM

## Thank You kheneghan@facs.org

Surgical Patient Education
<a href="https://www.surgicalpatienteducation.org">www.surgicalpatienteducation.org</a>

Safe Pain Control Resources for Medical Professionals | ACS (facs.org)





Questions