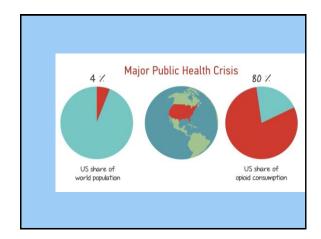
PILL STREET BLUES: THE OPIOID EPIDEMIC IN NORTH CAROLINA

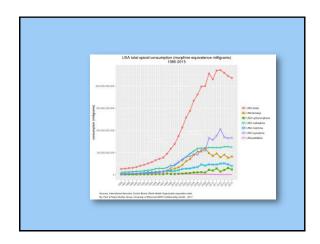
Matthew E. Nielsen, MD, MS, FACS
Urology, Epidemiology, Health Policy & Management
University of North Carolina at Changl Hill

Disclosures

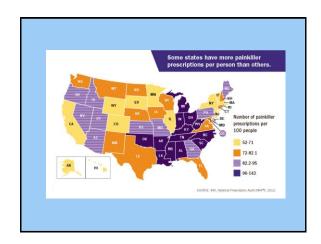
- Grant funding: Patient-Centered Outcomes Research Institute, National Cancer Institute, Agency for Healthcare Research and Quality
- Consultant: American College of Physicians High Value Care Task Force
- Consultant/Advisor: Grand Rounds



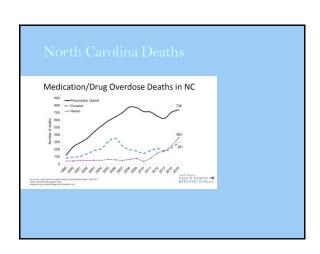




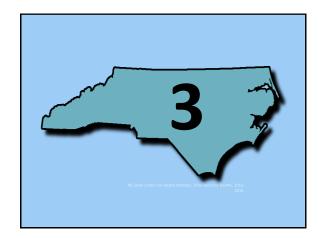


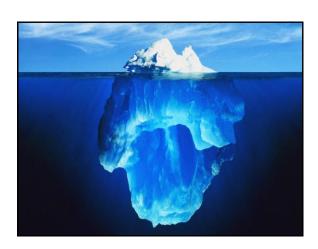


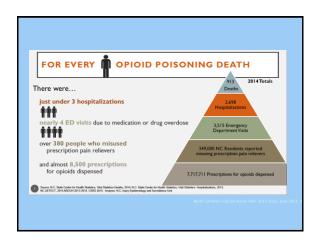








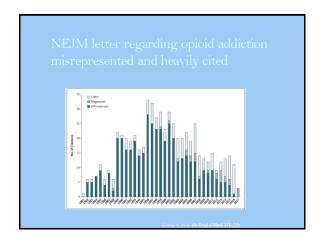




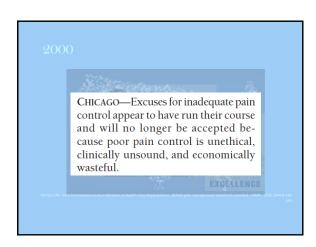


ADDICTION RARE IN PATIENTS TREATED
WITH NARCOTICS

To the Edinar Recently, we examined our current files to determine the incidence of narcotic addiction in 39,466 hospitalized medical patients who were monitored consecutively, Although there were 11,882 patients who received at least one narcotic preparation, there were only four cases of reasonably well documented addiction in patients who had no history of addiction. The addiction was considered major in only one instance. The drugs interest of the state of the state

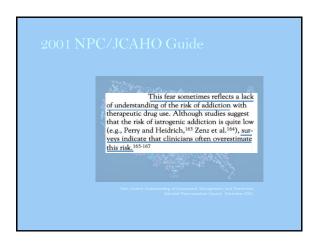


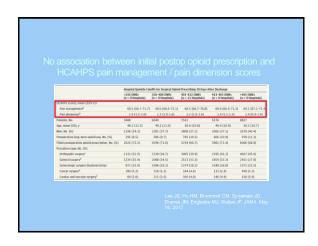




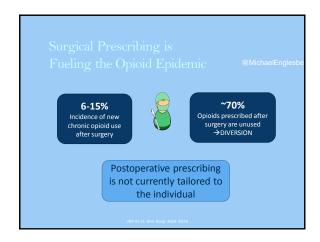


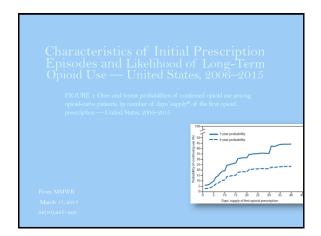
Most experts agree that patients who undergo prolonged opioid therapy usually develop physical dependence but do not develop addictive disorders. ¹⁵² In general, patients in pain do not become addicted to opioids. Although the actual risk of addiction is unknown, ¹⁵² It is thought to be quite low. A recent study of opioid analgesic use revealed "low and stable" abuse of polioids between 1990 and 1996 despite significant increases in opioids prescribed. ¹⁵⁴

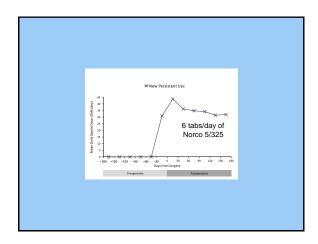


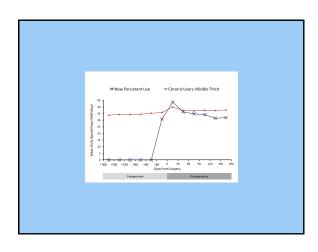












Prescription Opioid Analgesics Commonly
Unused After Surgery
FINDINGS Six eligible studies reported on a total of 810 unique patients (range, 30-250
patients) who underwent 7 different types of surgical procedures. Across the 6 studies, 67%
to 92% of patients reported unused opioids. Of all the opioid tablets obtained by surgical
patients, 42% to 71% went unused. Most patients stopped or used no opioids owing to
adequate pain control, and 16% to 29% of patients reported opioid-induced adverse effects.
In 2 studies examining storage safety, 73% to 77% of patients reported that their prescription
opioids were not stored in locked contrainers. All studies reported by that their prescription
opioids were not stored in locked contrainers. All studies reported by that their prescription
opioids were not stored in locked contrainers. All studies reported by that their prescription
opioids were not stored in locked contrainers. All studies reported by that their prescription
opioids were not stored in locked contrainers. All studies reported by the store of an actual disposal, but no study reported US Food and Drug Administration-recommended
disposal methods in more than 9% of patients.

CONCLUSIONS AND RELEVANCE Postoperative prescription opioids often go unused,
unlocked, and undisposed, suggesting an important reservoir of opioids contributing to
nonmedical use of these products, which could cause injuries or even deaths.

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33 extra pills per prescription
62 million
unused pills/year
1,881,481 operations / year 1,2
*data from state of Michigan

Over Prescribing Can Lead to Diversion

Surgeons Tend to
Overprescribe

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

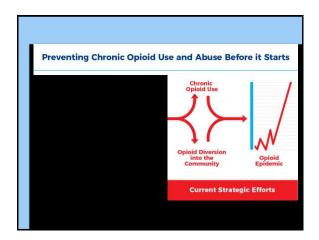
Diversion is Common
Non-Medical Use

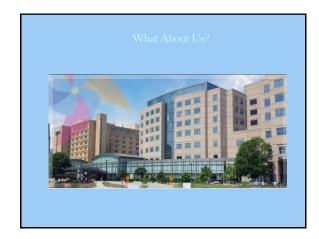
Diversion is non-medical use of legally prescribed prescription medication

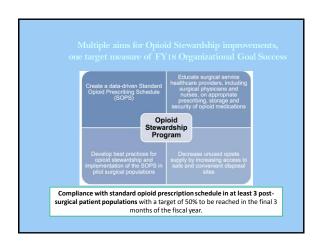
re Do Ti			
	TABLE 2 Sources of Pharmaceutical Opioids for Non-Medical Use (n = 383)		
Source Own prescription	Ever (select all that apply)	In the past six months (select th most common source) 15 (3.9%)	
Given free by f Given free by relatives	riends 336 (87.7%) 169 (44.1%)	114 (29.8%) 44 (11.5%)	
Bought Took from relation		203 (53.0%) 4 (1%) 0	
Doctor shoppin Internet	g 39 (10.2%) 3 (0.8%) 1 (0.3%)	2 (0.5%) 0 1 (0.3%)	







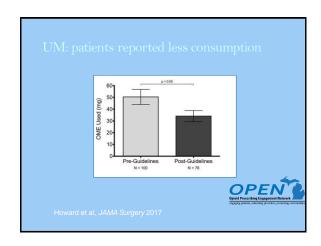




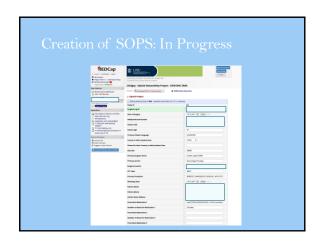
Brooke A. Chidgey, MD – Physician Lead Jami Mann, PharmD, MBA – Pharmacy Lead	
Matthew Nielsen, MD – Physician Lead	
Peggy P. McNaull, MD – Dept. of Anesthesiology Sponsor Nathan Woody, CSSBB – Manager, Patient Safety & Quality (Anesthesiology) Clark McCall, MHA, Data Analyst (Anesthesiology)	
	Janet Hadar, MSN, MSN, FACHE – Executive Sponsor

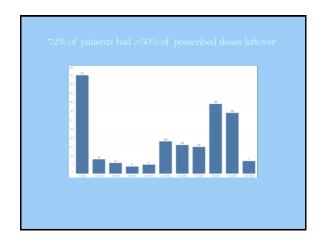
An Educational Intervention Decreases Opioid Prescribing After General Surgical Operations Maureen V. Hill. Min. * Spand. Stock. Min. * Mediale L. Methion. BS. † "Dartmouth Model" (80% target from 2015 baseline consumption analysis) * Partial Mastectomy (PM); PM + SLNB; Lap Chole (LC); Lap Inguinal Hernia (LIH); Open Inguinal Hernia (IH) **TABLE 2. Comparison of Opioid Prescriptions Pre versus Post Provider Education Number of Mean Number of Cases of Opioid Piles Prescribed State of Opioid Piles State of O

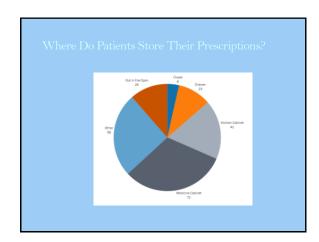
TABLE 2.	Nur	nber of		Mean Number		of Opic			
		ases		d Pills Prescri		_	ribed	Rang	
Operation	Pre	Post	Pre	Post	P	Pre	Post	Pre	Post
PM	175	58	19.8 (10.2)	5.1 (4.1)		20	5	0-50	0-20
PM SLNB LC	112 240	62 58	23.7 (11.3) 35.2 (16.9)	9.6 (2.4)		20 30	10 15	0-60 0-100	5-15 0-40
LIH	240 80	58 27	33.2 (16.9) 33.8 (9.0)	19.4 (7.2)		30	15	0-100 15-70	0-40
IH	85	18	33.2 (15.7)	18.3 (8.7)		30	15	15-120	0-30
	TABLE 3. Effect	t of Education Inte	ervention on Tota	Number of	Opinid Pills Prescribed				
	Operation	Patients in Post-education Group	Pre-educati No. of O Prescri	pioids	No. of Opioids Would Have Been Prescribed	No. o Actuall	of Opioids y Prescribed	% Decrease	
	PM PM SLNB LC	58 62 58	19.8 23.7 35.2		1148 1469 2042		295 598 1129	74.3 59.3 44.7	
	LIH	27	33.5		913		520	43.0	
	IH	18	33.2		598		330	44.8	
	Total	224			6170		2872	53.3	
ABLE 4. C	Opioid Pills Ta	aken							
Operation		PM	PM	SLNB	LC	LIH		IH	Total
atients		58		62	58	27		18	224
io. surveyed		34 (58.		(67.7)	42 (72.4)	20 (74.0))	10 (38.9)	148 (66.
ills prescribe	xd (n)	162		398	823	390		140	1913
ille taken (ii		50.736		(18.8)	307 (37.3)	187 (47		28 (20.0)	656 (34.
	ills taken (SD)		1.9	(3)	7.5 (8.3)	9.7 (10.	7)	2.8 (7.7)	
chils	111 (1-12)	0		0	0	200		0	1





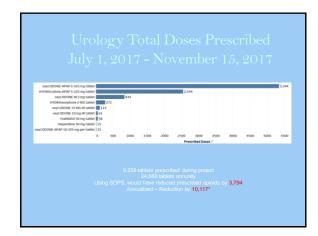




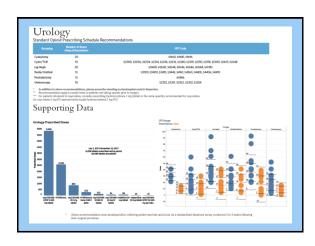


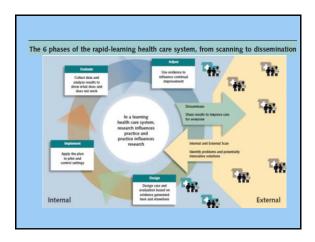












STOP Act of 2017

- Extend standing orders for naloxone to community health groups
- Improve opioid prescribing practices
- Strengthen controlled substance reporting system
- Dedicate funding to efforts

Targeted Controlled Substances

- "Controlled substances included in G.S. 90 90(1) or (2) or G.S. 90-91(d)"
- Schedule II and II opioids



Molovono

- Person at risk of overdose
- Person in a position to assist someone at risk of overdose
- Governmental or nongovernmental organizations that promote scientifically proven risk mitigation strategies for substance use disorders
- Standing order from State Health Director
- Immunity



Improving Opioid Prescribing Practices Prescribing limits NC Controlled Substance Reporting System PA/NP consultation with supervising physician E-prescribing of controlled substances

Prescribing Limits • Effective January 1, 2018 • Limits initial prescriptions for Sch II/III opioids for acute pain • After subsequent consultation can rx as appropriate • Exemptions: chronic pain, facility-administered drugs, cancer, palliative care, medication-assisted treatment for substance use disorder

NC Controlled Substance Reporting System Effective date TBD Requires review of NC CSRS for previous 12 months before prescribing Schedule II/III opioids At least every 3 months after Document in chart Technical failure- must go back

SECTION 4. G.S. 90-18.1(b) is amended by adding a new subdivision to read: "(5) A physician assistant shall personally consult with the supervising physician prior to prescribing a targeted controlled substance as defined in Article 5 of

this Chapter when all of the following conditions apply:
a. The patient is being treated by a facility that primarily engages in the treatment of pain by prescribing narcotic medications or advertises in

any medium for any type of pain management services.

b. The therapeutic use of the targeted controlled substance will or is expected to exceed a period of 30 days.

When a targeted controlled substance prescribed in accordance with this subdivision is continuously prescribed to the same patient, the physician excitant shall consult with the generalizing physician physician at larget one ways. 90 assistant shall consult with the supervising physician at least once every 90 days to verify that the prescription remains medically appropriate for the

21 NCAC 32S .0225 DEFINITION OF CONSULTATION FOR PRESCRIBING CONTROLLED SUBSTANCES

For purposes of N.C. Gen. Stat. § 90-18.1(b), the term "consult" shall mean a meaningful communication, either in person or electronically, between the physician assistant and a supervising physician that is documented in the patient medical record. For purposes of this Rule, "meaningful communication" shall mean an exchange of information that allows the supervising physician to make a determination that the prescription is medically indicated



Also Included

- Opioid disposal information for in home hospice/palliative care
- No State funds can be used for syringe exchange programs
- Funding dedicated to support N CSRS
- Penalties for late or inaccurate reporting by pharmacy to NC CSRS
- Annual report to General Assembly and licensing boards from NC CSRS



Thank You

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: @m_e_nielsen

What about Tramadol?

- The highest probabilities of continued opioic use at 1 and 3 years
- If initial treatment was with tramadol (13.7% at 1 year; 6.8% at 3 years)

Opioids are powerful (temporary mental health medications

Opioids have very powerful calming and antidepressan properties.

- That effect decreases with continued exposure to opioids
- Ultimately, opioids may cause an increase in anxiety
- For that reason, you should be very cautious using opioids in those with:
- Mood disorders (depression or bipolar)
- Anxiety disorder
- PTSD

A recent study concluded that: "the 16% of Americans who have mental health disorders receive over half of all opioids prescribed in the United States." 53