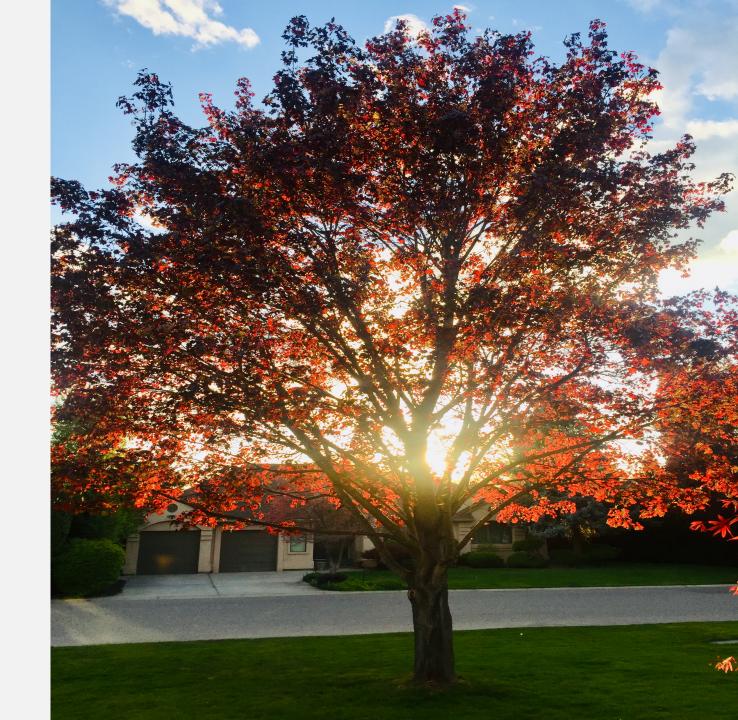


HARM REDUCTION IN THE ED: THE KGH STORY

May 10-2019 Josh Williams MD FRCPC @361Joules

FACULTY/PRESENTER DISCLOSURE

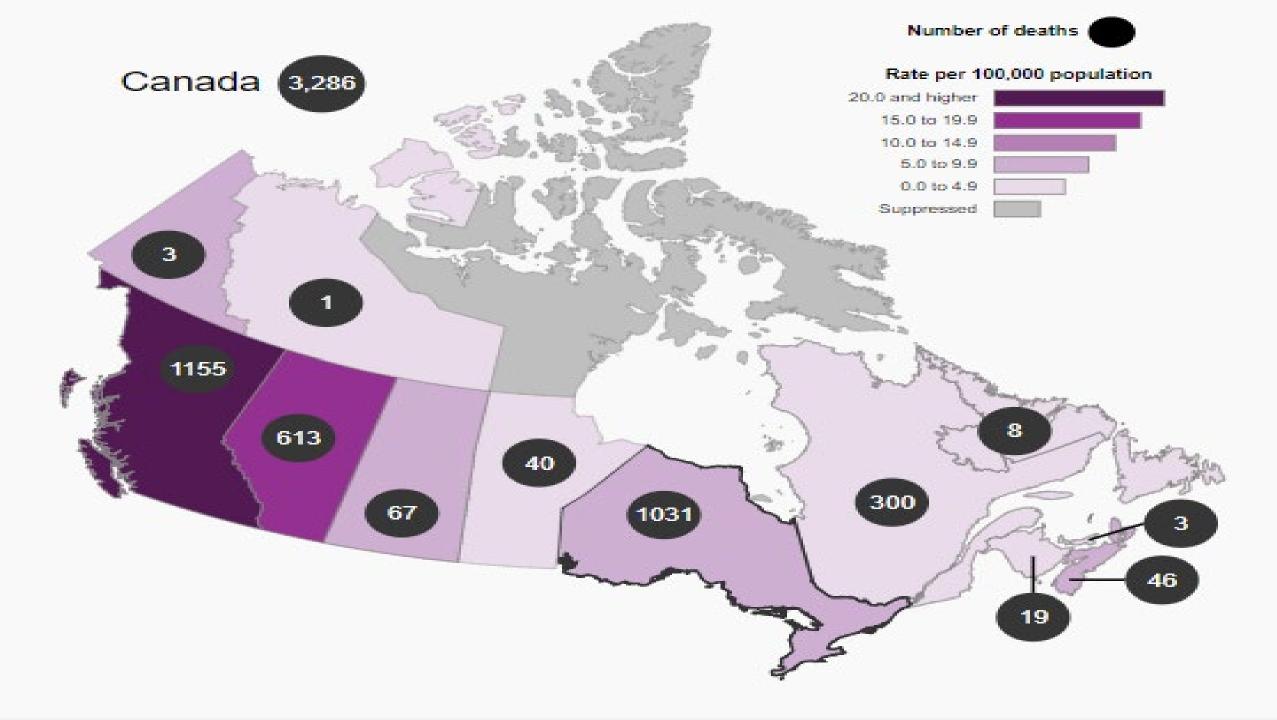
- Relationships with financial sponsors
 - Research Support: Kelowna Emergency Physicians
 Association
 - Research Support: KGH Faculty Engagement Funding







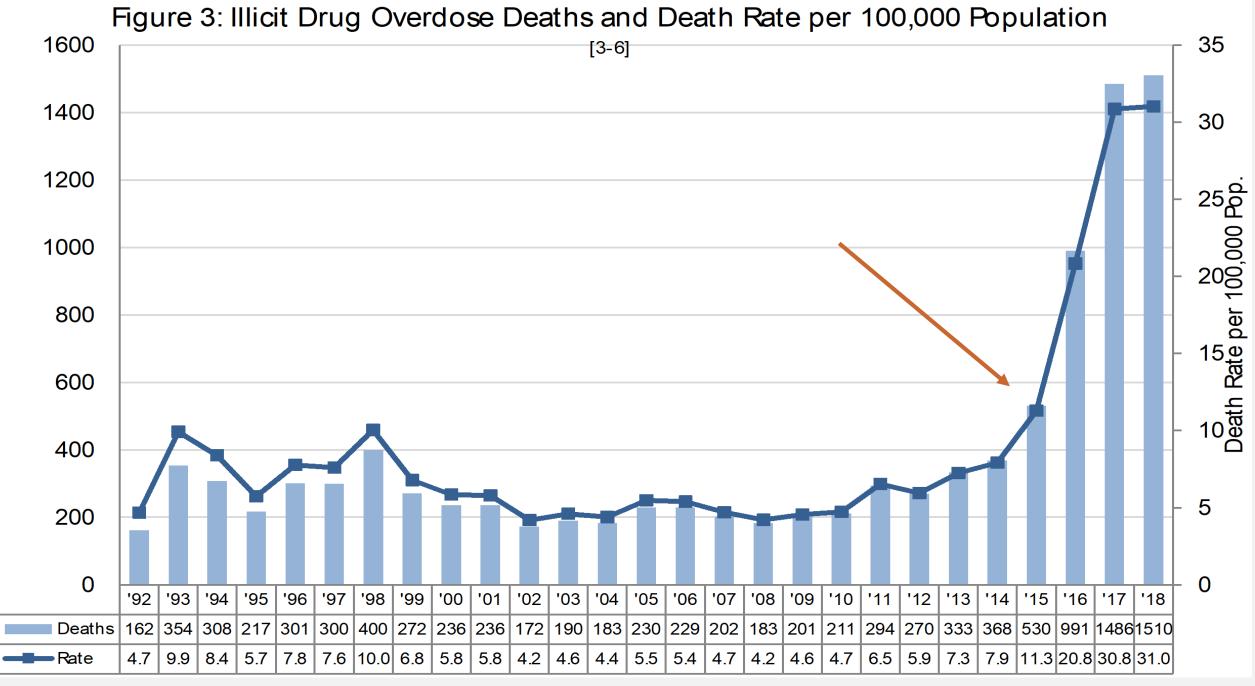




3286+

Canada's Top 10 (2016)

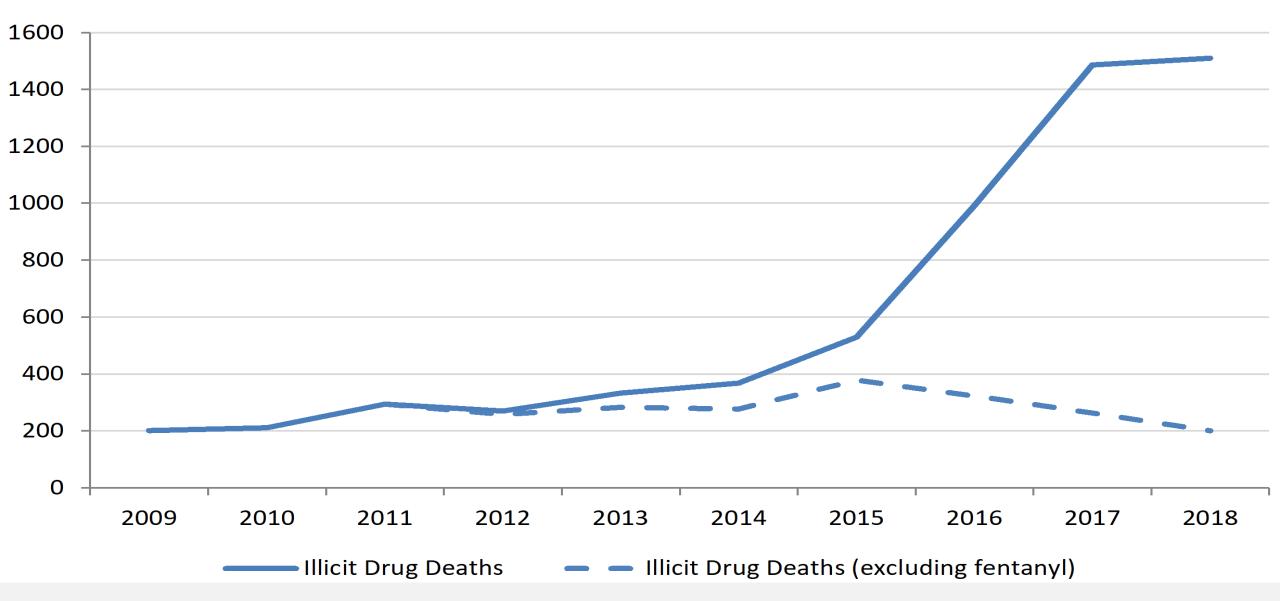
- I. Cancer 79084
- 2. Cardiovascular disease 51396
- 3. Cerebrovascular disease 13551
- 4. Accidental injury 12524
- 5. Respiratory 12293
- 6. Diabetes 6838
- 7. Alzheimer's 6521
- 8. Influenza & pneumonia 6235
- 9. Suicide 3978
- 10. Liver disease 3385



British Columbia Coroners Service Illicit Drug Overdose Deaths in BC Report March 19, 2019

Deaths

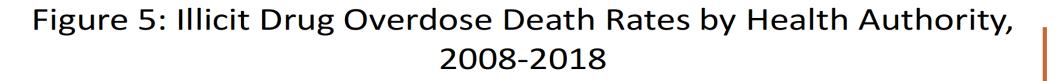
Figure 2: Illicit Drug Overdose Deaths including and excluding Fentanyl, 2009-2018

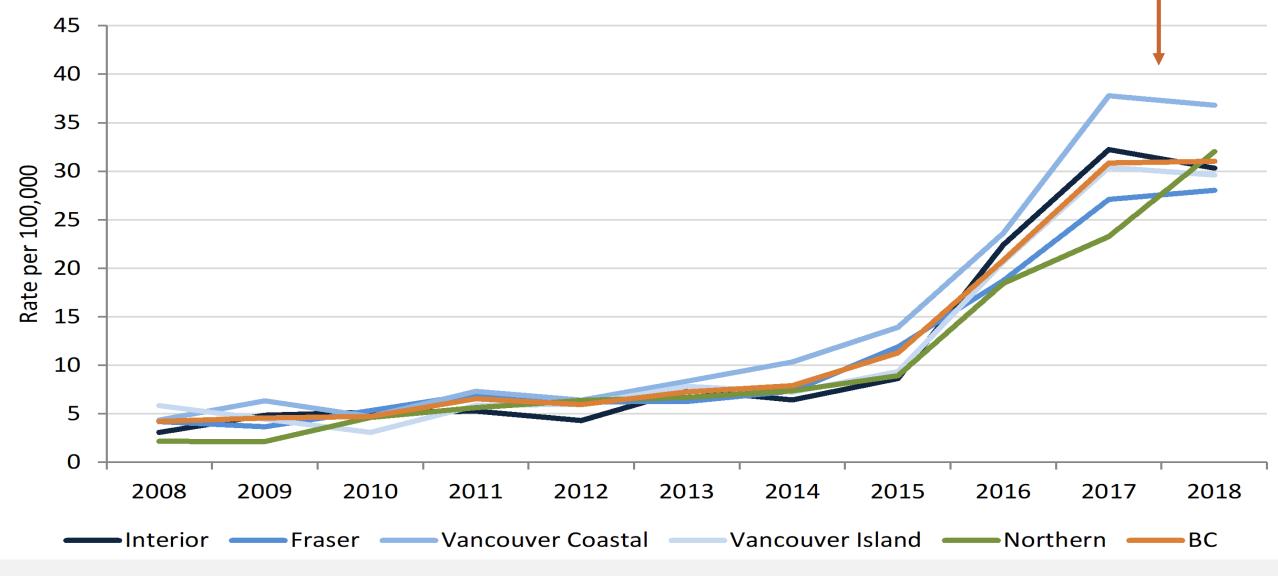


British Columbia Coroners Service Fentanyl-Detected Illicit Drug Overdose Deaths Report March 19, 2019

Table 6: Illicit Dru	g Overo	dose De	eaths b	у Тор Т	ownship	os of Inju	iry in 20 [°]	18, 2009	-2019* ^{[3}	3,4]	
Township	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Vancouver	60	42	69	65	80	101	139	232	376	387	24
Surrey	23	32	42	44	36	44	76	117	179	213	8
Victoria	13	13	17	18	25	20	23	68	93	96	5
Kelowna	5	9	14	8	12	12	20	47	74	55	3
Kamloops	7	10	2	5	8	7	7	44	38	48	2
Burnaby	8	9	10	10	13	11	15	40	44	46	2
Prince George	4	1	6	10	7	10	12	18	24	46	2
Abbotsford	4	10	16	7	10	7	27	40	52	40	2
Chilliwack	2	2	8	8	6	6	10	13	22	35	4
New Westminster	2	6	6	3	5	9	12	10	25	35	1
Nanaimo	6	4	8	6	20	16	18	28	56	34	1
Langley	2	3	10	5	10	10	10	31	36	32	4
Maple Ridge	6	4	4	5	10	14	29	28	33	28	3
Vernon	4	6	7	1	11	6	8	12	23	24	3
Delta	1	2	6	3	4	2	5	10	20	21	1
Other Township	54	58	69	72	76	93	119	253	391	370	25
Total	201	211	294	270	333	368	530	991	1,486	1,510	90

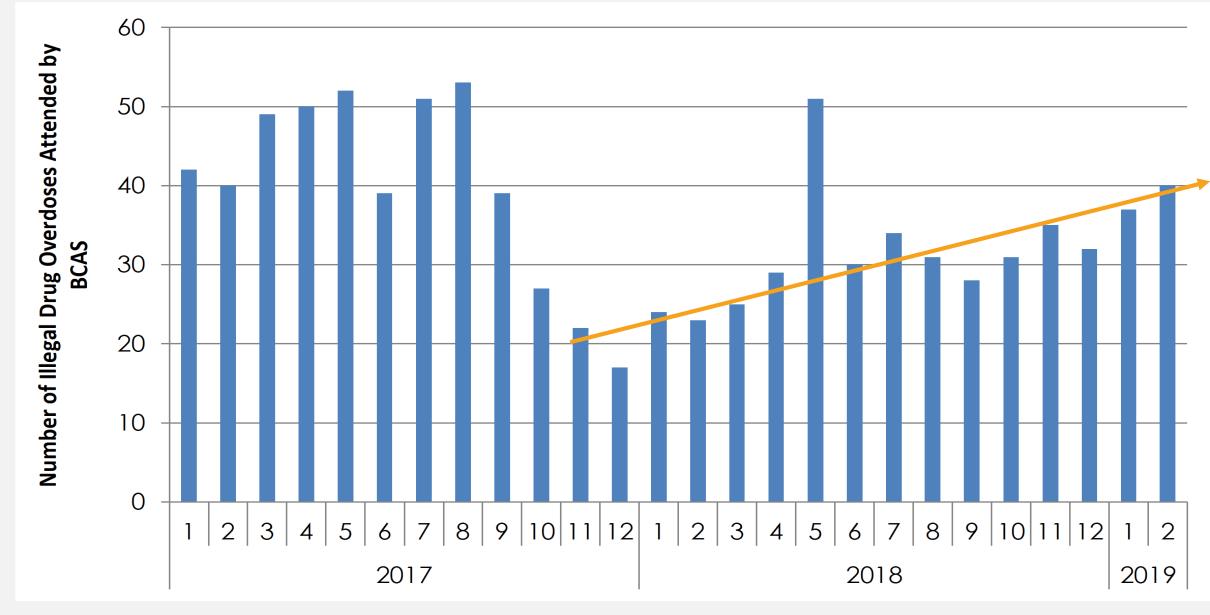
British Columbia Coroners Service Fentanyl-Detected Illicit Drug Overdose Deaths Report March 19, 2019





British Columbia Coroners Service Fentanyl-Detected Illicit Drug Overdose Deaths Report March 19, 2019





BCCDC April 24, 2019

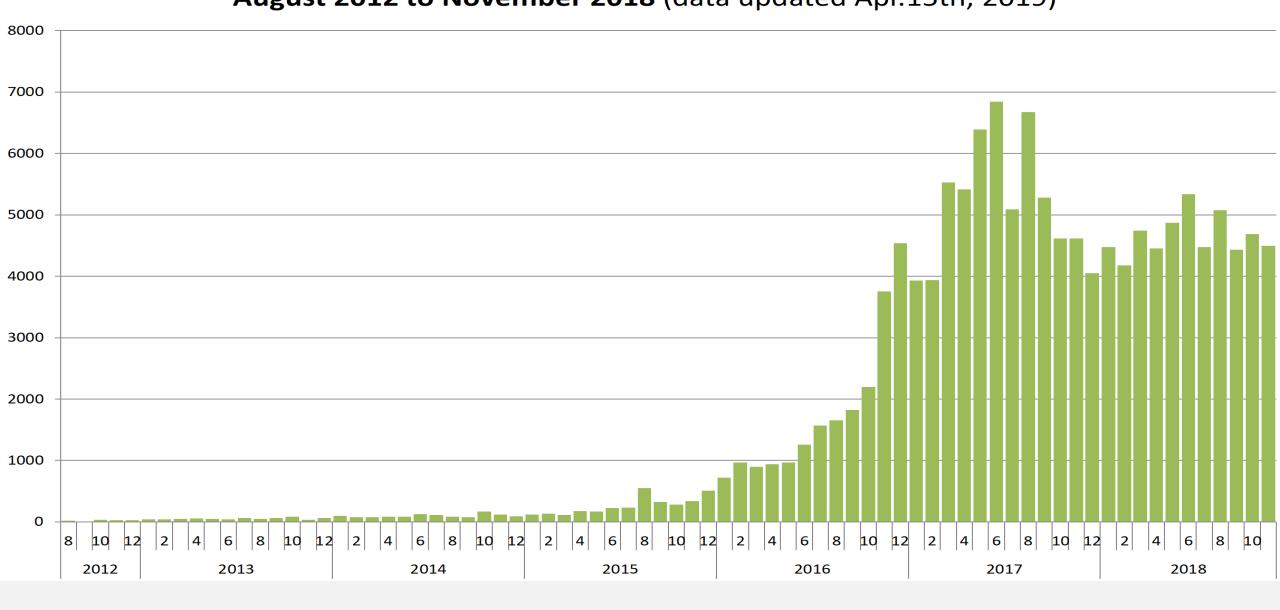


ED HARM REDUCTION

I. Take-home Naloxone

2.ED Suboxone inductions

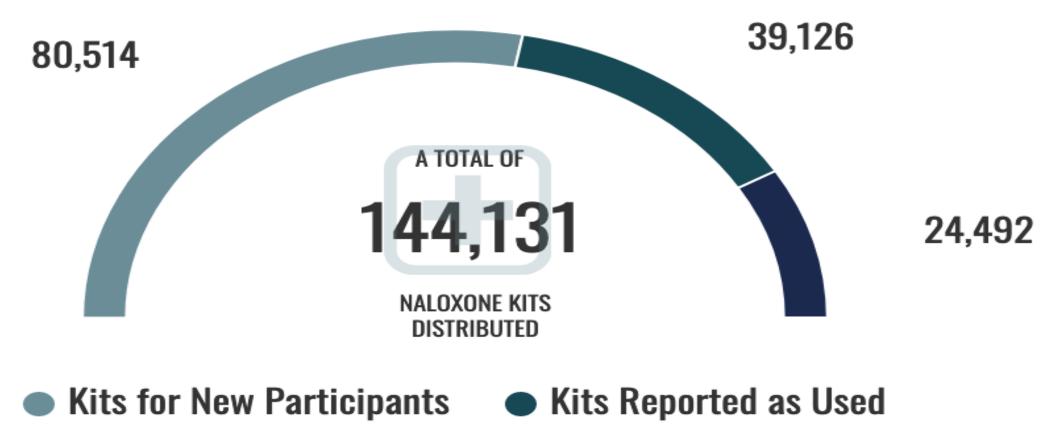
THN Kits Distributed per Month through the BC Take Home Naloxone Program, August 2012 to November 2018 (data updated Apr.15th, 2019)



https://towardtheheart.com



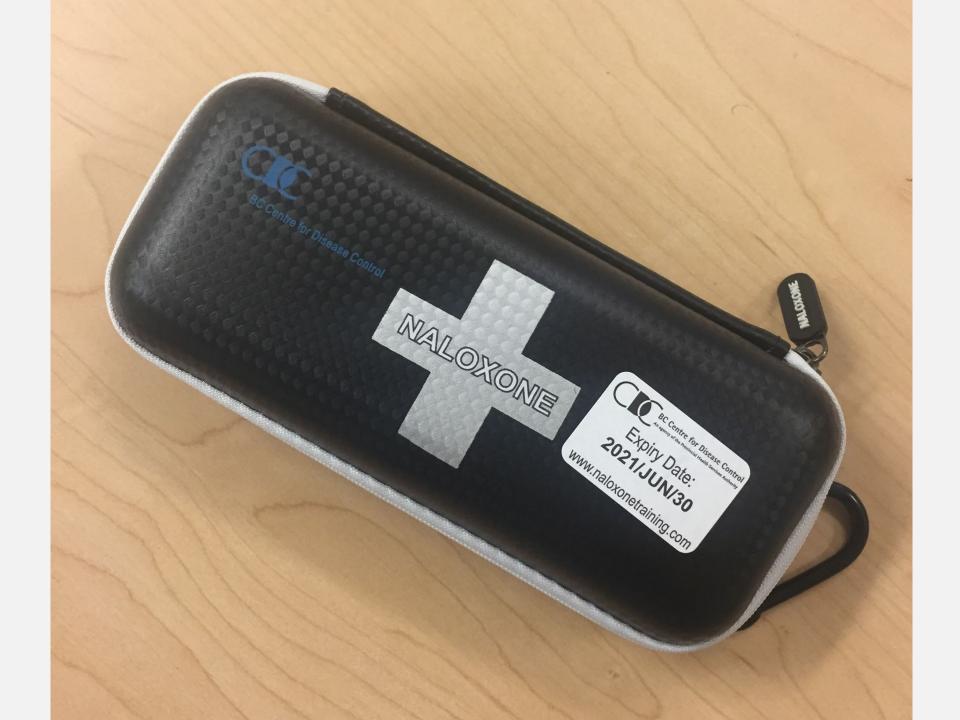
DISTRIBUTION OF KITS

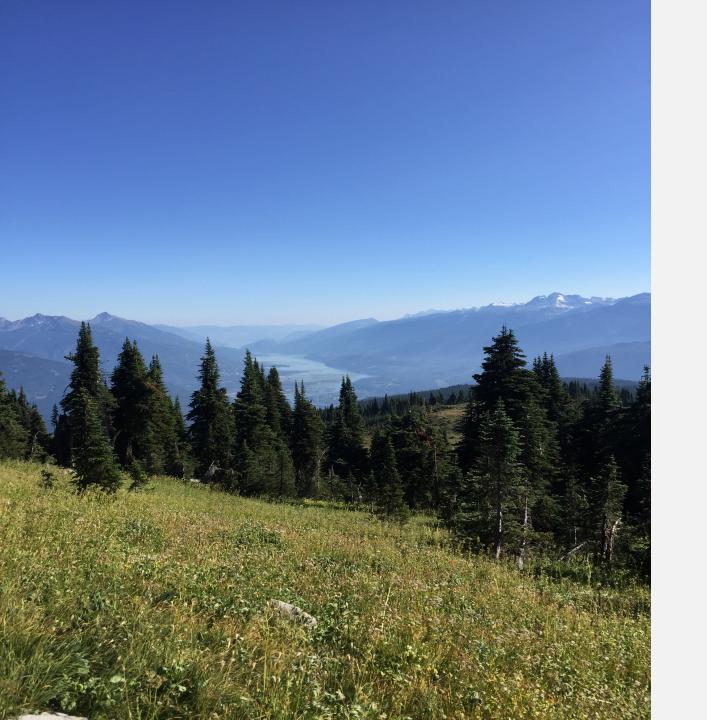


Replacements: Stolen, Lost, Expired, Confiscated

https://towardtheheart.com







OAT IN THE ED



Original Investigation

Emergency Department-Initiated Buprenorphine/Naloxone Treatment for Opioid Dependence A Randomized Clinical Trial

Gail D'Onofrio, MD, MS; Patrick G. O'Connor, MD, MPH; Michael V. Pantalon, PhD; Marek C. Chawarski, PhD; Susan H. Busch, PhD; Patricia H. Owens, MS; Steven L. Bernstein, MD; David A. Fiellin, MD

JAMA. 2015;313(16):1636-1644. doi:10.1001/jama.2015.3474

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- ↑ Engagement in treatment at 30 days
- \downarrow Self-reported illicit opioid use in the prior week
- \downarrow Use of inpatient addiction treatment services

BARRIERS

- No experience with Suboxone
- Buy-in from physicians, nursing staff, pharmacy, hospital admin
- No existing link to outpatient OAT





OVERCOMING BARRIERS

No experience with Suboxone





Networking researchers, educators & care providers

OVERCOMING BARRIERS

• Buy-in from physicians, nursing staff, pharmacy, hospital admin

OVERCOMING BARRIERS

No existing link to outpatient OAT

Interior Health ADULT BUPRENORPHINE-NALOXONE INDUCTION, STABILIZATION AND DISCHARGE ORDERS Kelowna General Hospital

Bulleted orders are initiated by default, unless crossed out and initialed by the physician/prescriber. Boxed orders (

Indications: This protocol is intended for adult patients (18 years or older) with opioid use disorder who are able to provide informed consent. Patients must be in moderate to severe opioid withdrawal evidenced by Clinical Opiate Withdrawal (COW) Scale greater than or equal to 16 with last immediate release opioid use greater than or equal to 12 hours ****OR**** last extended / controlled release opioid use greater than or equal to 24 hours.

Contraindications: This protocol should NOT be used for patients with an allergy to buprenorphine or naloxone, severe liver dysfunction (liver enzymes greater than 3 times the upper limit of normal), severe respiratory distress, acute alcohol intoxication or withdrawal, decreased level of consciousness, pregnancy, current methadone or prescribed long acting opioid use.

Physician only to call Rapid Access to Consultative Expertise (RACE) Clinic. 1-877-696-2131 Monday to Friday 0800-1700

PRE-INDUCTION PHASE

- 1. ALLERGIES: See Allergy/ADR record
- 2. CODE STATUS/MOST
 - Refer to completed Medical Orders for Scope of Treatment (MOST) #829641

3. CONSULTS

- In-Reach Consult for Substance Use Connection Clinician
- Other_

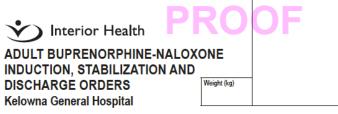
4. MONITORING

- COW (Form #855052) Scale prior to induction and then follow COW Scale monitoring parameters outlined in induction and stabilization phases
- Vital signs (T, HR, RR, BP, SpO₂) with COW Scale and PRN until stabilization phase complete. Then follow hospital vital sign guidelines

5. LABORATORY AND DIAGNOSTICS

- Urine drug screen including fentaNYL
- CBC, lytes, Cr, BUN
- ECG
- ALT, AST, ALK Phos, INR, Total Bili, Albumin
- · Pregnancy test BHCG (women of childbearing age)
- Urine for Chlamydia and Gonorrhea (GC NAAT)
- Syphilis serology
- Ethanol level
- HIV serology
- Hepatitis A immune status (total Ab), Hepatitis B surface Ab and Ag, Hepatitis Core antibody and Hepatitis C Ab

801196 Jul 6-18		Scan or Fax page to Pharmacy	
Date (dd/mm/yyyy)	Time	Prescriber's Signature	Printed Name or College IE



Bulleted orders are initiated by default, unless crossed out and initialed by the physician/prescriber. Boxed orders (
) require physician/prescriber check mark (
) to be initiated.

PHASE 1 - INDUCTION

If induction already completed in Emergency Department proceed to PHASE 2 – STABILIZATION

MEDICATIONS

Initial Dose:

page 1 of 3

- Once COW Scale greater than or equal to 16 and at least 12 hours since last immediate release opioid use **OR** 24 hours since last extended/controlled release opioid: give buprenorphine-naloxone 4 mg/1 mg sublingual × 1 dose
- Reassess patient using COW scale 60 minutes after initial buprenorphine-naloxone dose and follow chart below for subsequent doses.
- If COW Scale increases after initial dose this may indicate precipitated withdrawal. Stop, do not give additional
 medications and contact MRP for further instructions.

Step One: • Give buprenorphine-naloxone 2 mg/0.5 mg sublingual × 1 dose
Repeat COW Scale in 1 hour then proceed to step 2
Step Two: If COW scale greater than 6
 Repeat buprenorphine-naloxone 2 mg/0.5 mg sublingual every 1 hour until: COW Scale is less than 6 **08** Maximum day 1 dose of
 COW Scale is less than 6 **OR** Maximum day 1 dose of buprenorphine-naloxone 12 mg/3 mg is reached
Once Cow Scale is less than 6 or maximum day 1 dose of buprenorphine- naloxone 12 mg/3 mg is reached proceed to Induction Completion below
,
If patient admitted to hospital proceed to PHASE 2 – STABILIZATION.

Induction Completion		If patient discharged following Phase 3 – DISCHARGE Place cumulative dose on MA	p PHASE 1 – INDUCTION. Proceed and Complete
	•	Time Cu	umulative total dose:

Data (dd (ang (ang)	Time	Describede Genetice	Drinted Name or College ID#
Date (dd/mm/yyyy)	Time	Prescriber's Signature	Printed Name or College ID#
I I			

ED INDUCTIONS: WHO?

Age \geq 18

╋

Moderate to severe withdrawal

╋

Last opioid use > 12 hours prior

ED INDUCTIONS: WHO NOT?

Allergies

Severe liver dysfunction

Resp distress

Pregnancy

EtOH Intoxication ALOC Long acting opioids (e.g. methadone)

CLINICAL OPIOID WITHDRAWAL SCALE





CLINICAL OPIOID WITHDRAWAL	SCALE (COV	IS)
----------------------------	------------	-----

Resting pulse rate 0-	-4 0 1 2 4	pulse rate 81 to 100 pulse rate 101 to 120	(
Sweating 0 Over past half-hour not accounted for b room temperature or patient activity	-4 0 1 2 3 4	subjective report of chills or flushing flushed or observable moistness on face beads of sweat on brow or face	
Restlessness 0. Observation during assessment	-5 0 1 3 5	reports difficulty sitting still, but is able to do so frequent shifting or extraneous movements of legs / arms	
Pupil size 0-	-5 2 5	pupils possibly larger than normal for room light pupils moderately dilated	(
Bone or joint aches 0. If patient was having pain previously, or the additional component attributed to opiates withdrawal is scored	-4 0 hly 1 2 4	mild diffuse discomfort patient reports severe diffuse aching of joints / muscles	
Runny nose or tearing 0 Not accounted for by cold symptoms or allergies	-4 0 1 2 4	nasal stuffiness or unusually moist eyes nose running or tearing	(
Gl upset 0. Over last half-hour	-5 0 2 3 5	stomach cramps nausea or loose stool vomiting or diarrhea	(
Tremor 0. Observation of outstretched hands	-4 0 1 2 4	tremor can be felt, but not observed slight tremor observable	
Yawning 0 Observation during assessment	-4 0 1 2 4	yawning once or twice during assessment yawning three or more times during assessment	
Anxiety or irritability 0-	-4 0 1 2 4	patient reports increasing irritability or anxiousness patient obviously irritable or anxious	
Gooseflesh skin 0-	-5 3 5	piloerrection of skin can be felt or hairs standing up on arms	(

Reproduced from: Wesson DR, Ling W. The Clinical Opiate Withdrawal Scale (COWS). J Psychoactive Drugs 2003; 35:253.

ED INDUCTIONS: SUBOXONE DOSING

4mg SL

then...

2mg QIh PRN

END GAME

COWS ≤ 6 Or I2mg

AFTER THE INDUCTION

Referral to OAT clinic

Suboxone Rx

Take-home naloxone kit



PRESCRIBING SUBOXONE

Daily dose = total induction dose "Daily witnessed ingestion" Duplicate pad

TOWARD ED INDUCTIONS: KEY STEPS

I.Identify local barriers

2. Identify/cultivate local champions

- 3.Educate
- 4. Build links
- 5. Beg, borrow, steal



THE FUTURE



• KEDSS

• Home inductions - AKA "self starts"



QUESTIONS