

HERO TRaILs

Health Extension Regional Officers: Translating
Research into Localities



Chronic Pain Management and Opioid Abuse Prevention

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BACKGROUND: HERO TRAILS

Health Extension Regional Officers (HERO): Translating Research Into Localities (TRaILs)

Purpose: to study how to best disseminate established guidelines and evidence-based information to primary care providers serving rural, underserved, multiethnic populations.

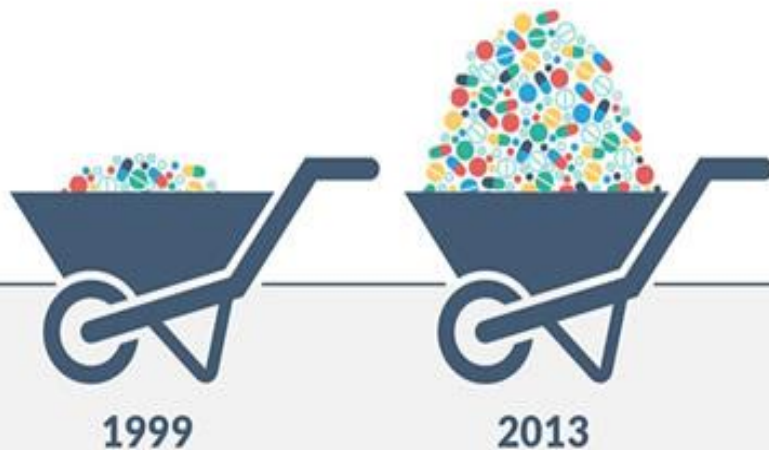


THE DISSEMINATION PROBLEM

- ✘ Can take up to 17 years for proven info to change clinical behaviors
- ✘ Traditional methods for disseminating EB information does not guide/change clinical behavior (direct mail, journal publications, electronic dissemination, and traditional continuing medical education [CME] activities)
- ✘ No evidence on best practices for rural providers

WHY CHRONIC NON-CANCER PAIN (CNCP)?

From 1999 to 2013,
the amount of prescription painkillers prescribed
& sold in the U.S. nearly **QUADRUPLED.**



Yet there has not been an overall change in
the amount of pain that Americans report.

- ✘ CNCP costs \$635 Billion per year (more than Diabetes, Cancer, and Heart Disease)
- ✘ New Mexico consistently #1-3 highest Rx drug overdose death rate
- ✘ Accidental OD Deaths from prescription painkillers have quadrupled since 1999 in the United States
- ✘ Opioid prescribing is controversial with providers. Patients are getting caught in the middle of new guidelines and regulations

INTERVENTION COMPONENTS



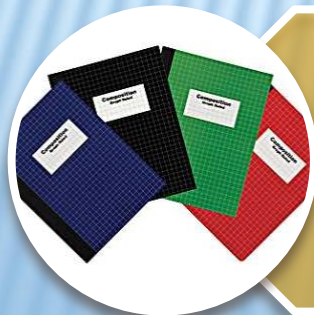
CNCP EB Workshops

- Series of 3.5 hour CME workshops
- Provided in person at the clinic



Academic Detailing

- One-on-One sessions
- Delivered in person at the clinic or provider offices



Toolkit and Resources

- Clinical Algorithms, EB tools and pocket cards
- Delivered at workshops and adapted from provider feedback and learning needs

ACADEMIC DETAILING IN NEW MEXICO

- ✘ For this project, the detailer was a non-clinical, Master's level, health education professional
- ✘ Used academic clinical team for support. After each detailing visit, detailer consulted with the Project MD and Pharmacist as needed to determine follow-up.
- ✘ Through an adaptive design process, the subsequent learning needs of participant was assessed.

WHAT WERE THE TOOLS?

Three clinical algorithms: 1) initial assessment, 2) opioid initiation, 3) already on opioids

Non-Pharmacologic

- ✘ Brief Pain Inventory (BPI)
- ✘ PHQ2 (depression screen)
- ✘ PHQ9
- ✘ Wong Baker Faces (1-10)
- ✘ Patient Education
- ✘ SOAPP-R
- ✘ Urine Drug Screening
- ✘ Aberrant behaviors associated with misuse and abuse of opioids
- ✘ Controlled Substance agreement
- ✘ Approach for tapering or discontinuing opioids

Pharmacologic

- ✘ Neuropathic pain medications
- ✘ Topical pain medications
- ✘ Muscle relaxants
- ✘ NSAIDS
- ✘ Medication choice by comorbidities
- ✘ Opioid tables
- ✘ Indications for Long acting opioids

ADAPTIVE TOOLS DEVELOPED: POCKET CARDS

MME (Morphine Milligram Equivalent) Conversion Table
(All Conversion factors use Morphine as the Standard)

Potency	Drug	Conversion Factor	Example: MME Conversion
LESS ↓ MORE	Codeine	.15	200 mg
	Morphine	1	30 mg
	Hydrocodone	1	30 mg
	Oxycodone	1.5	20 mg
	Oxymorphone	3	10 mg
	Hydromorphone	4	7.5 mg

Conversion Steps for Table:

1. Convert beginning opioid mg to Morphine equivalent: Multiply beginning mg dose by beginning conversion factor = mg Morphine
2. Convert Morphine equivalent to Target opioid mg: Divide morphine equivalent by Target opioid conversion factor = mg Target

Conversion Example:

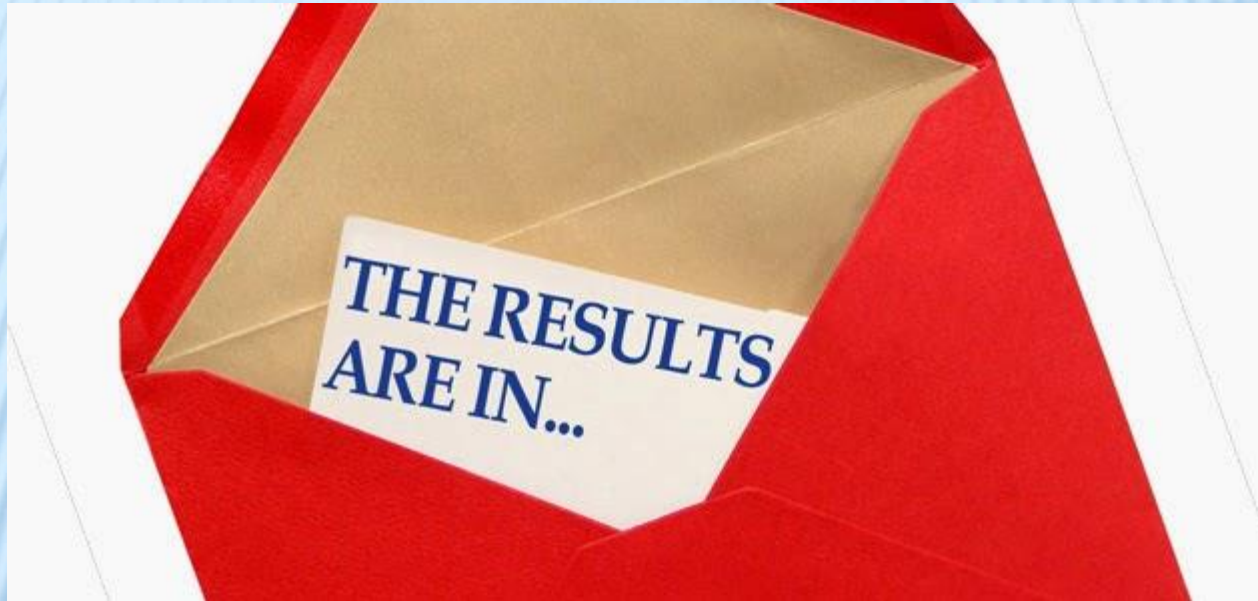
ADAPTIVE TOOLS DEVELOPED: POCKET CARDS

Medication Choice by Comorbidities

	Anxiety	Cardiac Disease: Arrhythmia	Cardiac Failure: Edema	Depression	Hepatic Disease	HTN	Insomnia; Obstructive Sleep Apnea	Obesity, Weight Gain	Renal Disease
Gabapentin (Neurontin®)	+	NI	-	J	+	NI	+	-	J
Pregabalin (Lyrica®)	++	NI	J	J	+	NI	++	-	J
Venlafaxine (Effexor®)	+	NI	+	++	J	-	J	J	J
Duloxetine (Cymbalta®)	+	NI	+	++	-	J	J	J	+
Milnacipran (Savella®)	+	NI	+	++	+	J	J	+	+
TCA	+	CI	J	+	+	J	++	J	+
NSAIDS	NI	NI	-	NI	J	J	NI	NI	-
Muscle Relaxants	+	NI	NI	NI	-	J	++	NI	J

Legend: + preferred; - non-preferred; J Judgment call; CI Contraindicated; NI: No Impact

RESULTS



QUALITATIVE RESULTS: TOOLS

The tools provided were evidence based and gave providers options when treating and managing patients with CNCP.

“The toolkit gives us a basket of options to choose from.”

-New Mexico Rural Provider



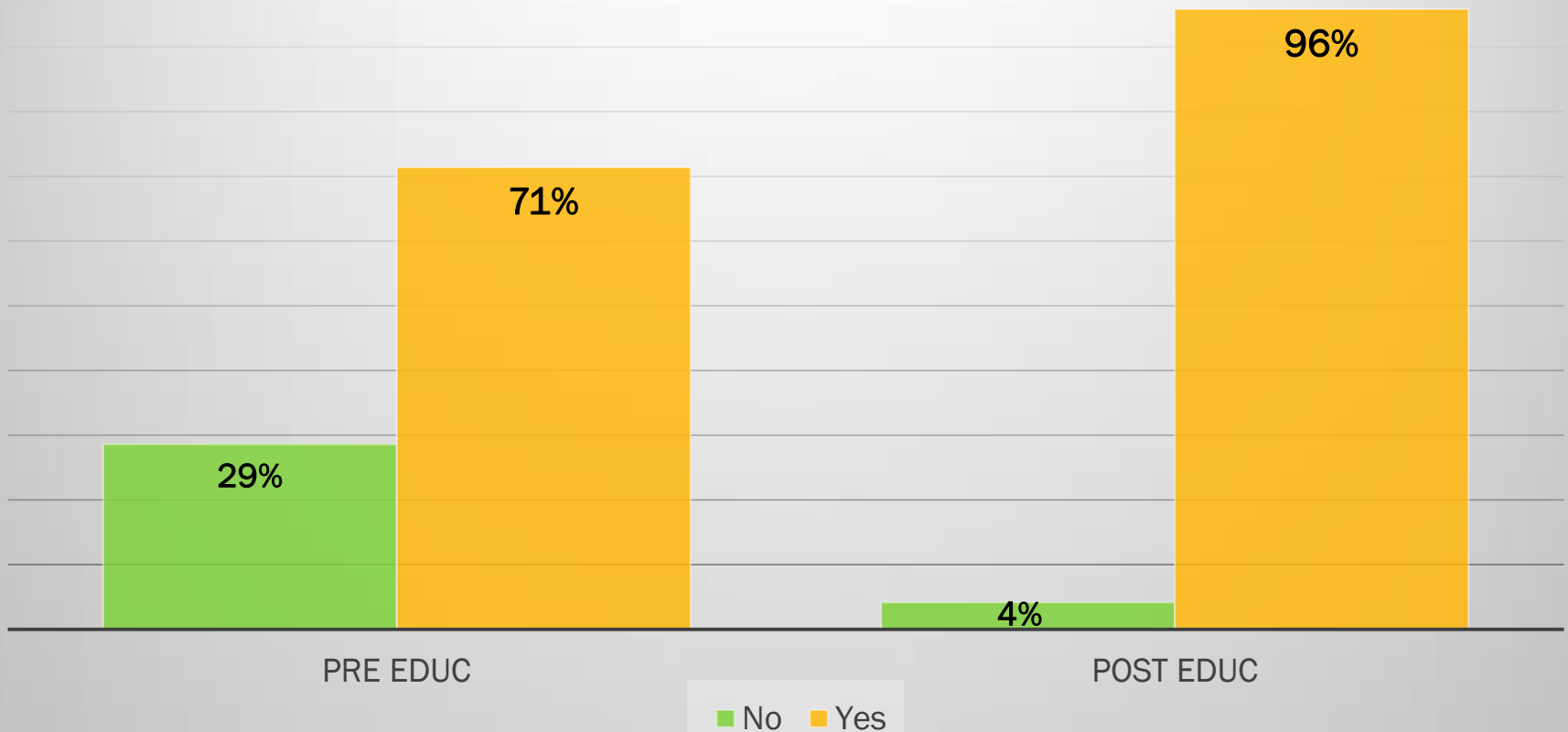
QUALITATIVE RESULTS: CONT.

“Its not just about prescribing. It’s about treating the patient with CNCP while complying with the regulations, providing education and the “why” to patients, and creating functional goals.”



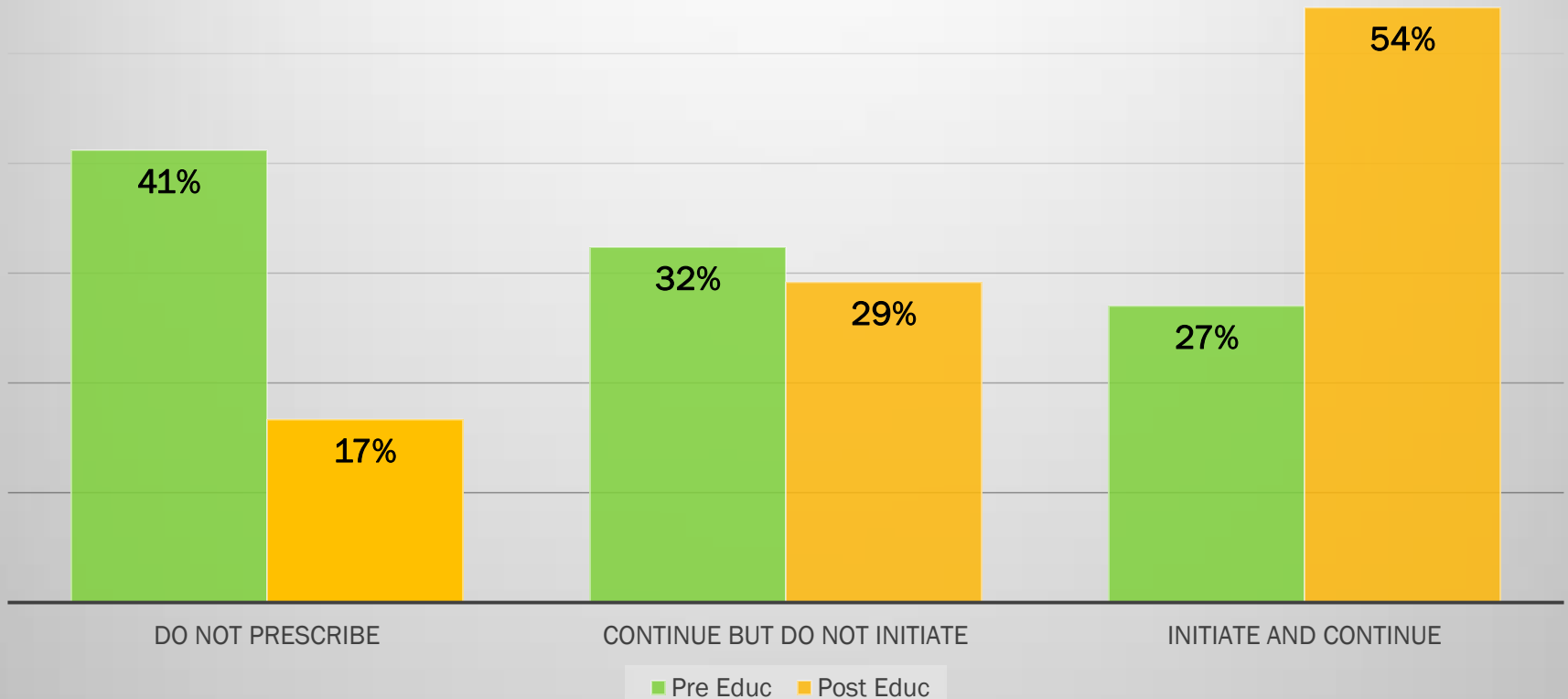
SURVEY RESULTS: TREATING CNCP

For your patients who have chronic non-cancer pain (CNCP), do you manage their CNCP?



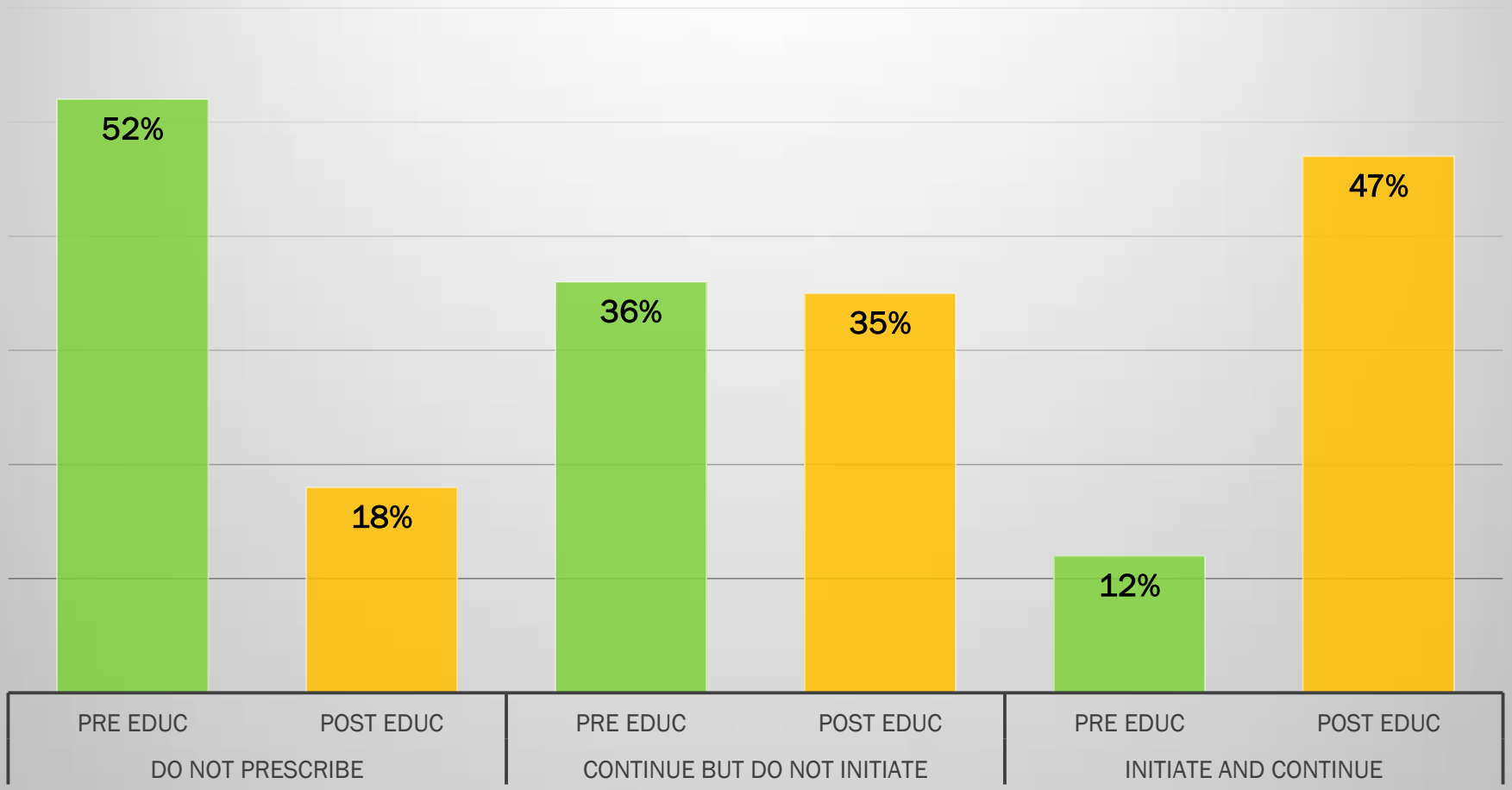
RESULTS: DO PROVIDERS PRESCRIBE?

Under what circumstances do you prescribe long-acting opioids for people with CNCP?



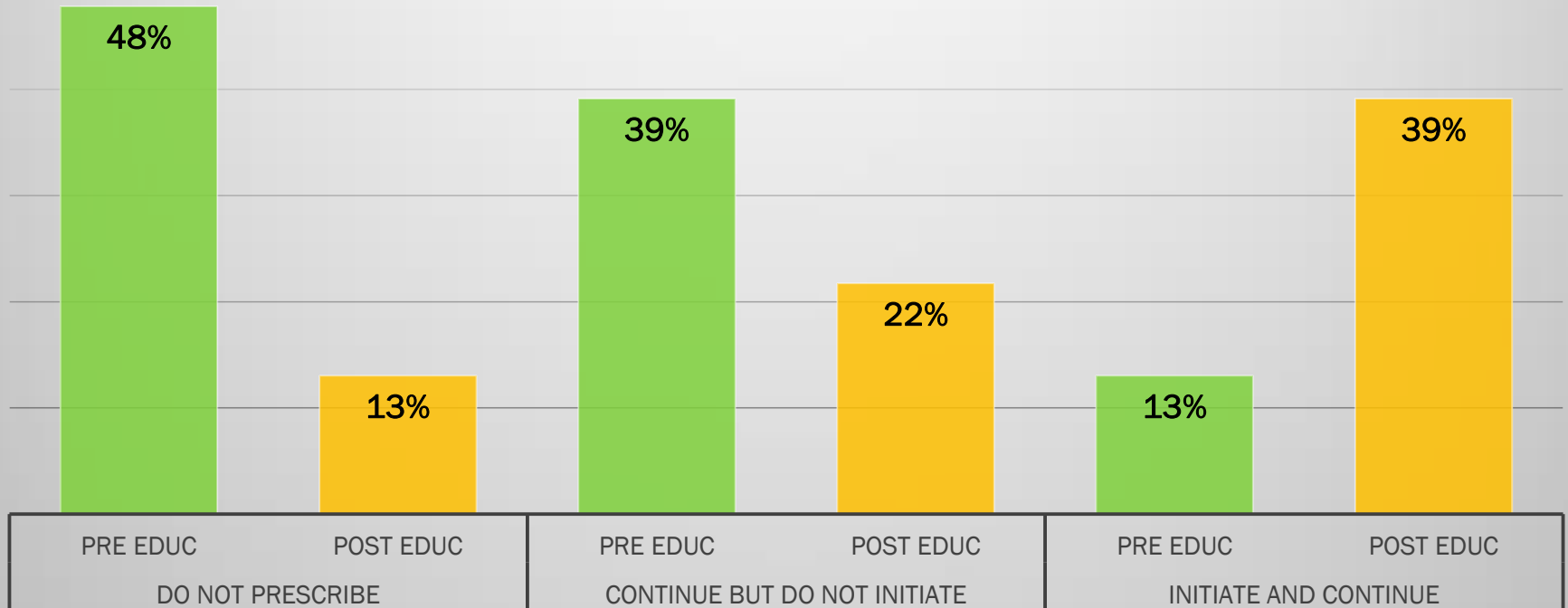
RESULTS: CNP AND PA PRESCRIBING

Prescribing long-acting opioids for people with CNCP:
CNP and PA

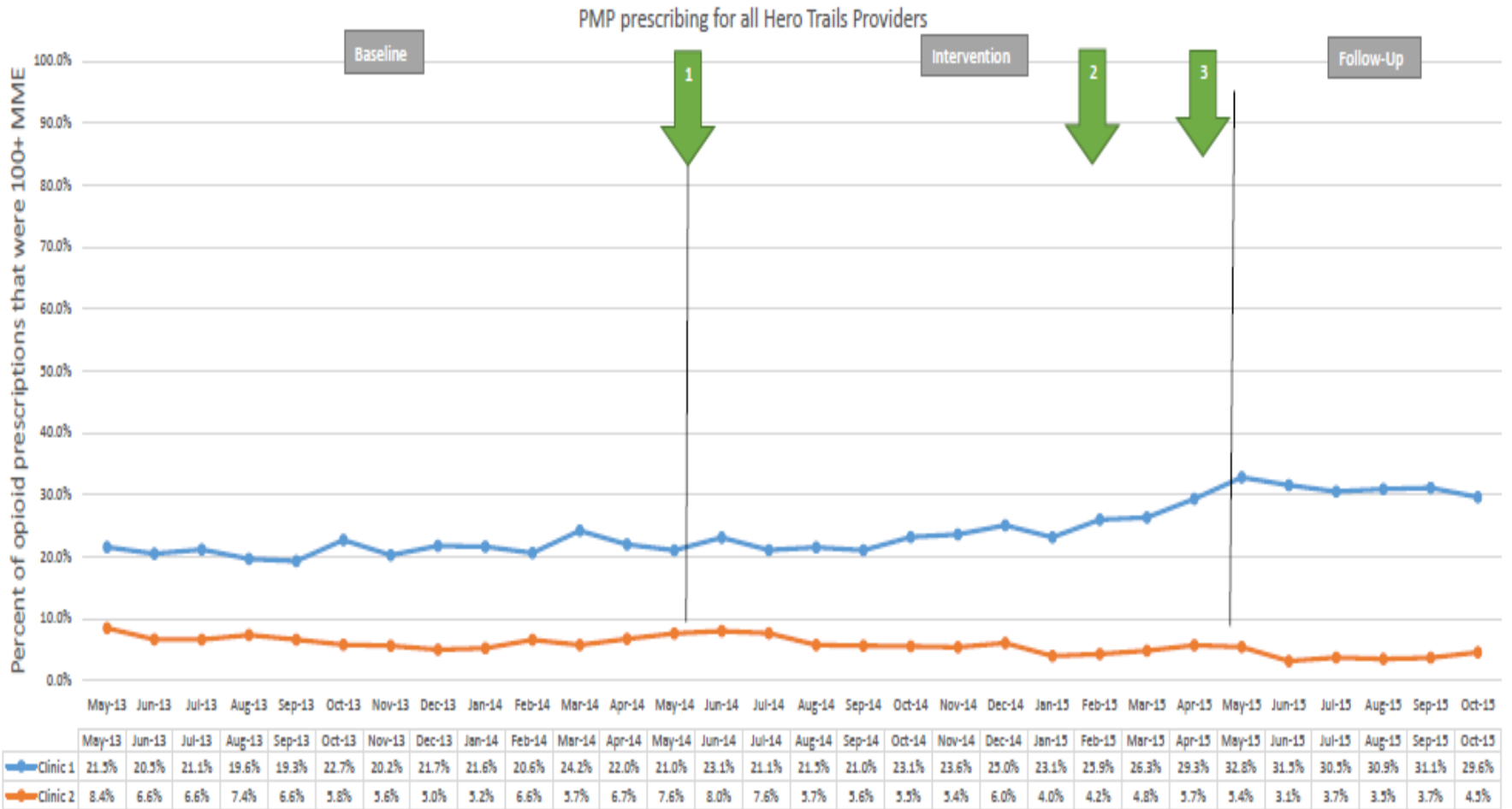


RESULTS: PRESCRIBING & YRS OF EXPERIENCE

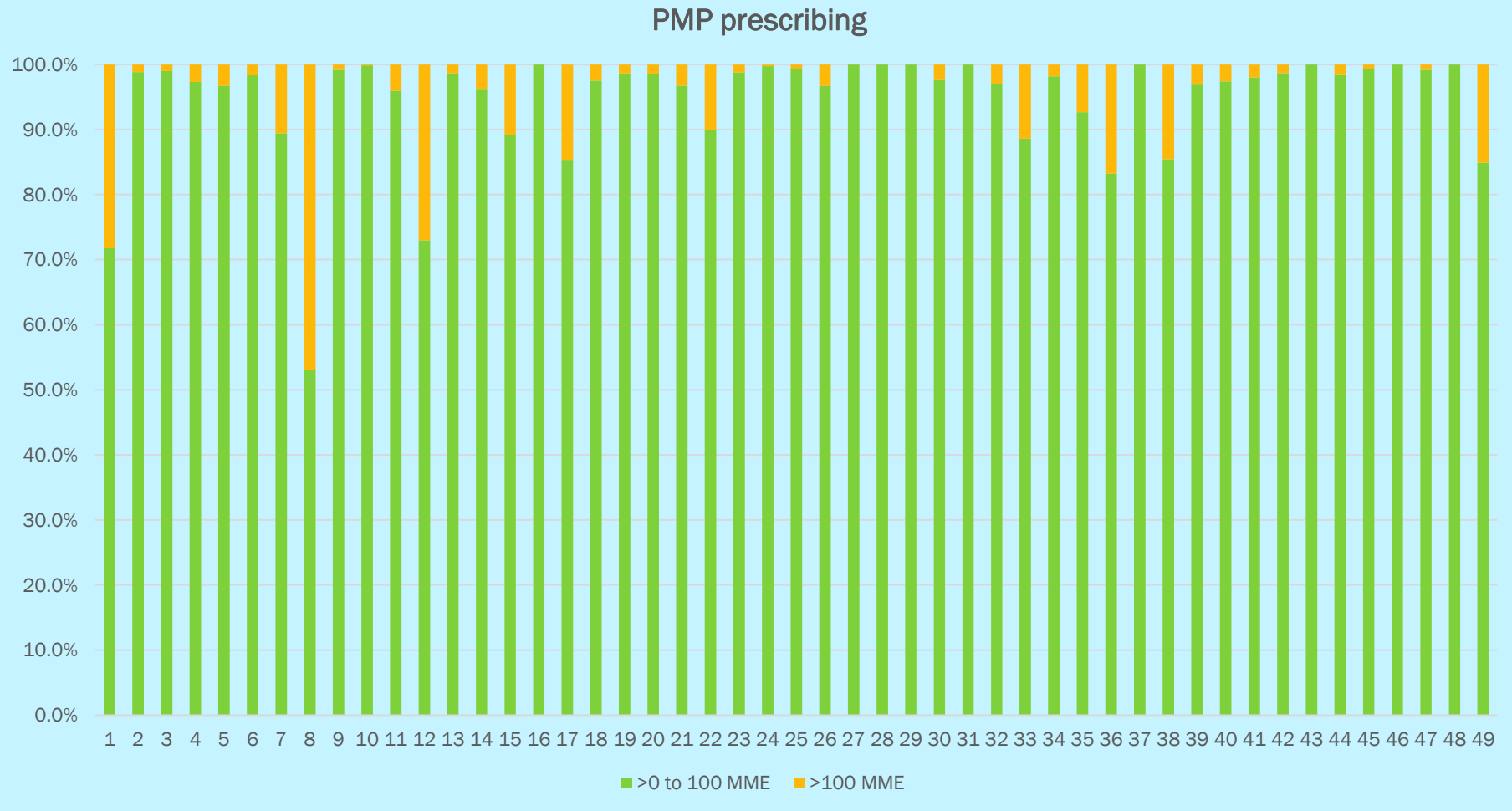
Prescribing long-acting opioids for people with CNCP:
10 years or less since completion of residency or school



PMP CLINIC COMPARISON: % \geq 100 MME



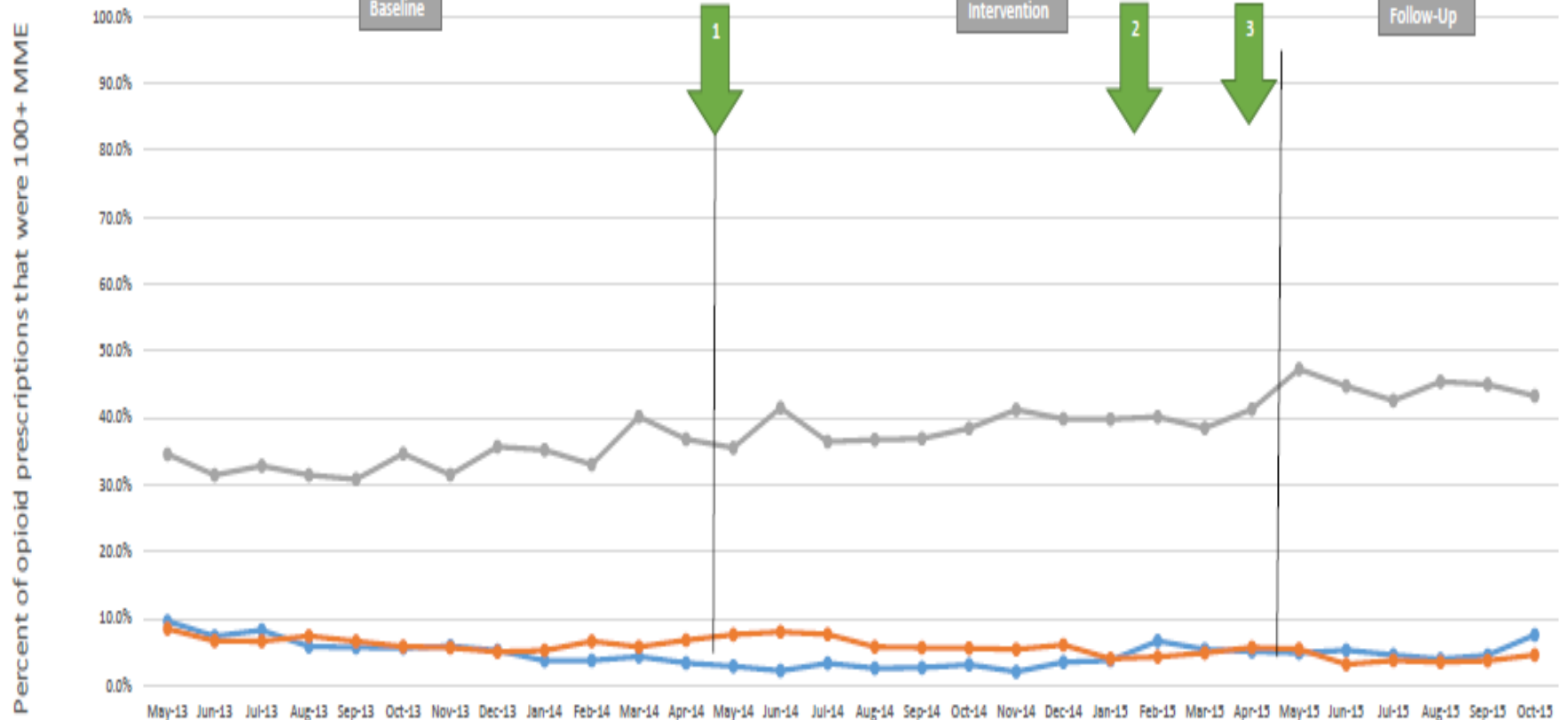
PROVIDER MME PRESCRIBING (PMP DATA)



- ✖ Clinic 1: 1-18
- ✖ Clinic 2: 19-30
- ✖ Participant 49 is the average of for all providers

PMP CLINIC COMPARISON CONTROLLING FOR OUTLIERS

PMP prescribing for Hero Trails Providers (Providers #1, 8 and 12 separate)



	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15
Clinic 1 100+	9.6%	7.3%	8.2%	5.8%	5.7%	5.6%	5.9%	5.2%	3.7%	3.7%	4.3%	3.3%	2.8%	2.2%	3.3%	2.5%	2.6%	3.1%	2.0%	3.5%	3.7%	6.6%	5.4%	5.0%	4.8%	5.3%	4.5%	3.9%	4.5%	7.5%
Clinic 2 100+	8.4%	6.6%	6.6%	7.4%	6.6%	5.8%	5.6%	5.0%	5.2%	6.6%	5.7%	6.7%	7.6%	8.0%	7.6%	5.7%	5.6%	5.5%	5.4%	6.0%	4.0%	4.2%	4.8%	5.7%	5.4%	3.1%	3.7%	3.5%	3.7%	4.5%
Providers #1, 8, 12	34.5%	31.4%	32.8%	31.4%	30.8%	34.6%	31.5%	35.7%	35.2%	33.0%	40.1%	36.8%	35.5%	41.5%	36.4%	36.7%	36.9%	38.4%	41.2%	39.8%	39.8%	40.1%	38.4%	41.3%	47.3%	44.7%	42.6%	45.4%	45.0%	43.3%

ACADEMIC DETAILING SURVEY QUESTION RESPONSES

<u>Survey question</u>	<u>Mean</u>	<u>Max</u>	<u>Min</u>
73. How useful was the practice detailer to you in terms of your care for patients with CNCP?	7.4	10	4
74. My interactions with the practice detailer were positive.	1.2	2	1
75. The interactions with the practice detailer disrupted clinic workflow.	4.5	6	2
76. The practice detailer has the appropriate personality type for this type of work.	1.2	2	1
77. The interactions with the practice detailer took too much time.	4.7	6	3
78. I would like some more clinic visits from the practice detailer to help with my management of chronic non-cancer pain.	3.6	5	1
79. I would like some more clinic visits from the practice detailer to help with my management of other clinical conditions.	3.5	5	1

- ✘ Question 73 Scale: 1=not useful at all to 10=extremely useful
- ✘ Question 74-79 Scale: 1=Strongly Agree, 2=Agree, 3=Somewhat Agree, 4=Somewhat Disagree, 5=Disagree, 6=Strongly Disagree

CONCLUSIONS: PRESCRIBING BEHAVIOR



- ✘ Clinicians, advanced practice providers and those out of training ≤ 10 years, reported being more comfortable managing CNCP as a result of the CME + AD educational interventions.

- ✘ A few dangerous opioid prescribers accounted for a large difference between clinics.
 - ❑ Most providers were prescribing within a safe MME level
 - ❑ Outliers may or may not indicate bad prescribing
 - ❑ Possible they were pain champions for practice with higher prevalence of CNCP pts. TBD.

- ✘ The adaptive, iterative design for CME method was very well received
 - ❑ Closed the loop of communication and created engagement in learning for rural primary care providers
 - ❑ Providers' questions and suggestions led to the production of useable algorithms and clinical tools

CONCLUSIONS: ACADEMIC DETAILING



- ✘ AD provided a direct link to providers who developed trust and reliance on detailer
 - ❑ Led to open discussion, identification of barriers, and toolkit innovations
 - ❑ Clinicians felt we listened to their learning needs
 - ❑ They did not feel the time required for a visit took too much time
- ✘ Link b/t detailer and academic health center important
 - ❑ Providers' questions and suggestions were answered
 - ❑ Detailer felt supported
 - ❑ Led to iterative design of adaptive CME

