Beth Israel Lahey Health 🔰 Beth Israel Deaconess Medical Center

# Implementing and Evaluating a Standardized Opioid Curriculum

Kortney Robinson MD, Michaela Carroll BA, Stephanie Ward BA, Alind Amedi BA, Tara S. Kent MD, Musa Aner MD, Gabriel Brat MD MPH Beth Israel Deaconess Medical Center

## Introduction/Problem

As the opioid epidemic in America gains increased visibility, attention has turned toward physicians' prescribing practices.

- > Opioids are a first-line analgesic postoperatively
- > More than a third (36.5%) of all prescriptions written by surgeons in the U.S. are for opioid containing pain medications<sup>1</sup>
- $\succ$  A critical strategy for combatting this public health crisis is ensuring medical school and residency curricula include prescription education to improve appropriate prescribing by physicians
- > Despite the widely recognized importance of integrated pain management courses, only 4% of U.S. medical schools report having such courses<sup>2</sup>

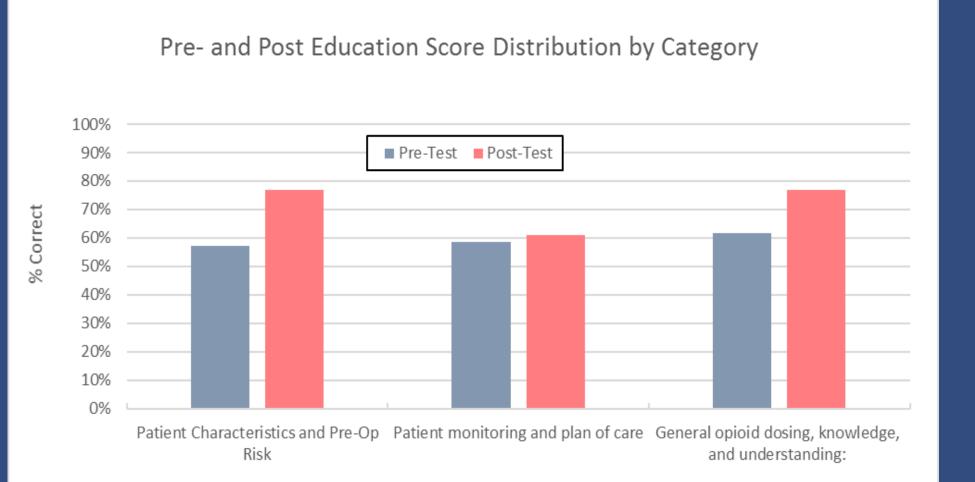
## Aim/Goal

We initiated the present study to introduce and evaluate an opioid educational curriculum for preinterns, residents PGY 1-5, Nurse Practitioners (NP), and Physician Assistants (PA) across four academic medical centers in Boston (BIDMC, BMC, BWH, and MGH).

## The Team

- Kortney Robinson MD- Research Fellow
- Michaela Carroll BA- Research Coordinator
- Stephanie Ward BA- Research Assistant II
- Alind Amedi BA- Research Assistant
- Musa Aner MD- Anesthesia/ Co-Investigator
- Tara Kent MD- Residency Director
- Gabriel Brat MD MPH- Principle Investigator

- $\succ$  A 75 minute opioid education session, designed to increase knowledge in 3 areas:
  - Patient characteristics and pre-operative risk
  - Patient monitoring and plan of care
  - General opioid dosing, knowledge, and understanding
- Pre and post-education knowledge assessment previously validated by Pennsylvania State Safety Authority
- > 197 Prescribers Participated
- $\succ$  167 completed both pre and post assessments (84.8%) > 58 pre-interns, 89 PGY 1-5, and 17 NP/PA participated
- > All groups had significant knowledge gaps across the three areas of knowledge studied (Figure 1)
- $\succ$  Average scores prior to education were 59.5% which increased to 68.2% post education, an increase of 14.6% (P<0.001) (Figures 2 & 3)
- (Figure 4)



## The Interventions

## Results/Progress to Date

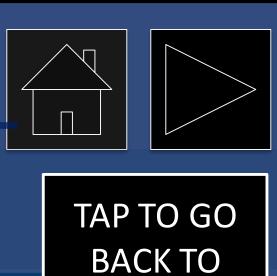
 $\succ$  Comfort prescribing increased from an average of 3.96 to 5.44 on a scale of 1-10 (P<0.001)

> "Students" felt it was overall beneficial with 96% reporting it would change their practice

Figure 1 (at left): Pre and post educational scores as distributed by category of question. Questions relating to patient characteristics, risks and opioid dosing resulted in a lager increase in scores when compared to questions relating to patient monitoring and plans of care.

### For more information, contact:

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- rolled out in a case-based format

# More Results/Progress to Date Comfort Level in Prescribing Opioids 10 Scale\* 6 7 Comfort 4 5 3 N \*1 being least comfortable, 10 being most comfortable Post

Figure 4: Box Plots demonstrating comfort level in presc before and after education

## Lessons Learned

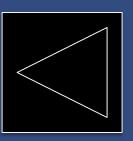
> A short educational session is a simple, cost-effective way to improve knowledge of safe

## Works Cited

Aack, K. A., & Jones, C. M. (2015). Trends in Opioid Analgesic-Prescribing Rates by Specialty, U.S., 2007-2012. American journal of preventive medicine, 49(3), 409–413. doi:10.1016/j.am Mezei, L., & Murinson, B. (2011). Pain Education in North American Medical Schools. Journal of Pain, 12(12), 1199-1208. Doi:10.1016/j.jpain.2011.06.006.

### For more information,

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