



2017 EMS STATE OF THE SCIENCE:  
Gathering of Eagles XIX



REACT-ing Well to Addiction and  
Mental Health Challenges  
*Locating, Recruiting & Managing the Patient  
with Opioid Addiction*

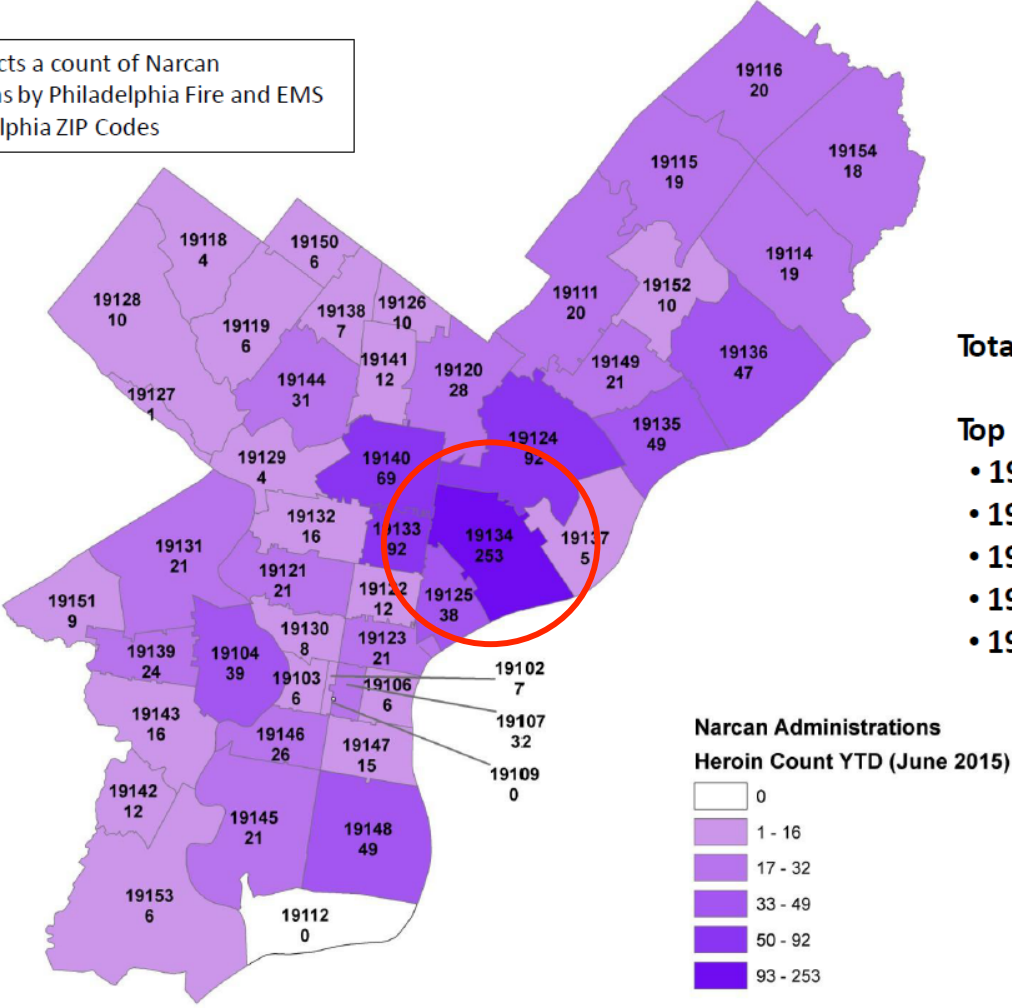
C. Crawford Mechem, MD (Philadelphia)  
David P. Keseg, MD (Columbus)  
Kenneth A. Scheppke, MD (West Palm Beach)

## How Has PFD Responded to Rising Heroin Deaths?

- Philly's heroin OD deaths rising every year
- Increase naloxone inventory
- Put naloxone on all engines, ladders
- Collect daily naloxone use data by zip code
  - Use as surveillance tool
  - Bad batch of heroin, fentanyl, carfentanil
  - Share with other agencies

# Narcan Administration by ZIP Code January – YTD June 2015

This map depicts a count of Narcan administrations by Philadelphia Fire and EMS across Philadelphia ZIP Codes



**Total: 1258**

**Top 5 ZIP Codes:**

- 19134 – 253
- 19124 – 92
- 19133 – 92
- 19140 – 69
- 19135 – 49



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## Responding to Opiate Ground Zero



**Dr. David P. Keseg M.D. FACEP**

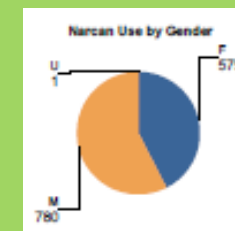
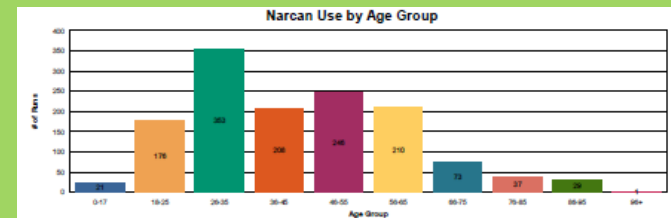
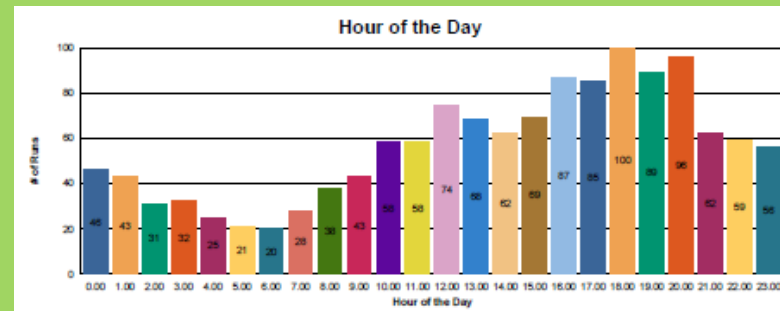
**Medical Director Columbus Division of Fire**



**Associate Professor Ohio State University Wexner Medical Center**

# Tracking data on CFD Naloxone Use

- Age
- Gender
- Race
- Impression
- Hour of Day
- Transport Status
- Destination Facility
- Day of week
- Day of Month
- Zip code
- Multiple Narcan Uses



## Opiate Surge Notification

- *Each discipline has identified their critical indicator/trigger for initiating a conference call.*

### **Fire/EMS departments -**

*Double the average of 8 in a 24 hour period, of EMS suspected opiate-related runs in the City of Columbus based on the discretion of the EMS Chief*

### **Law enforcement departments –**

*Columbus Division of Police: A seizure of narcotics that, upon testing, reveals the presence of fentanyl, carfentanil, or another fentanyl analogue and there is reasonable suspicion that there may be a substantial amount in circulation.*

### **Public health departments:**

*A validated increase of drug overdose visits (to ED/Urgent Care) data through EpiCenter.*

### **Medical/hospitals:**

- *An increase in the number of patients presenting to the ED either over a 24 hour time frame or in a short period of time;*
- *A higher than normal amount of doses of Narcan/naloxone are being given;*
- *Patients with a diagnosis of opioid overdose are presenting with symptoms that are at a higher level of acuity and require more definitive treatment than usual.*

***If the critical indicator/trigger point has been reached, the Initiating Agency will call the Columbus Fire Alarm Office (CFAO) to schedule a conference call to discuss opiate overdose surge activity.***

# Recovery Outreach





## RREACT Program

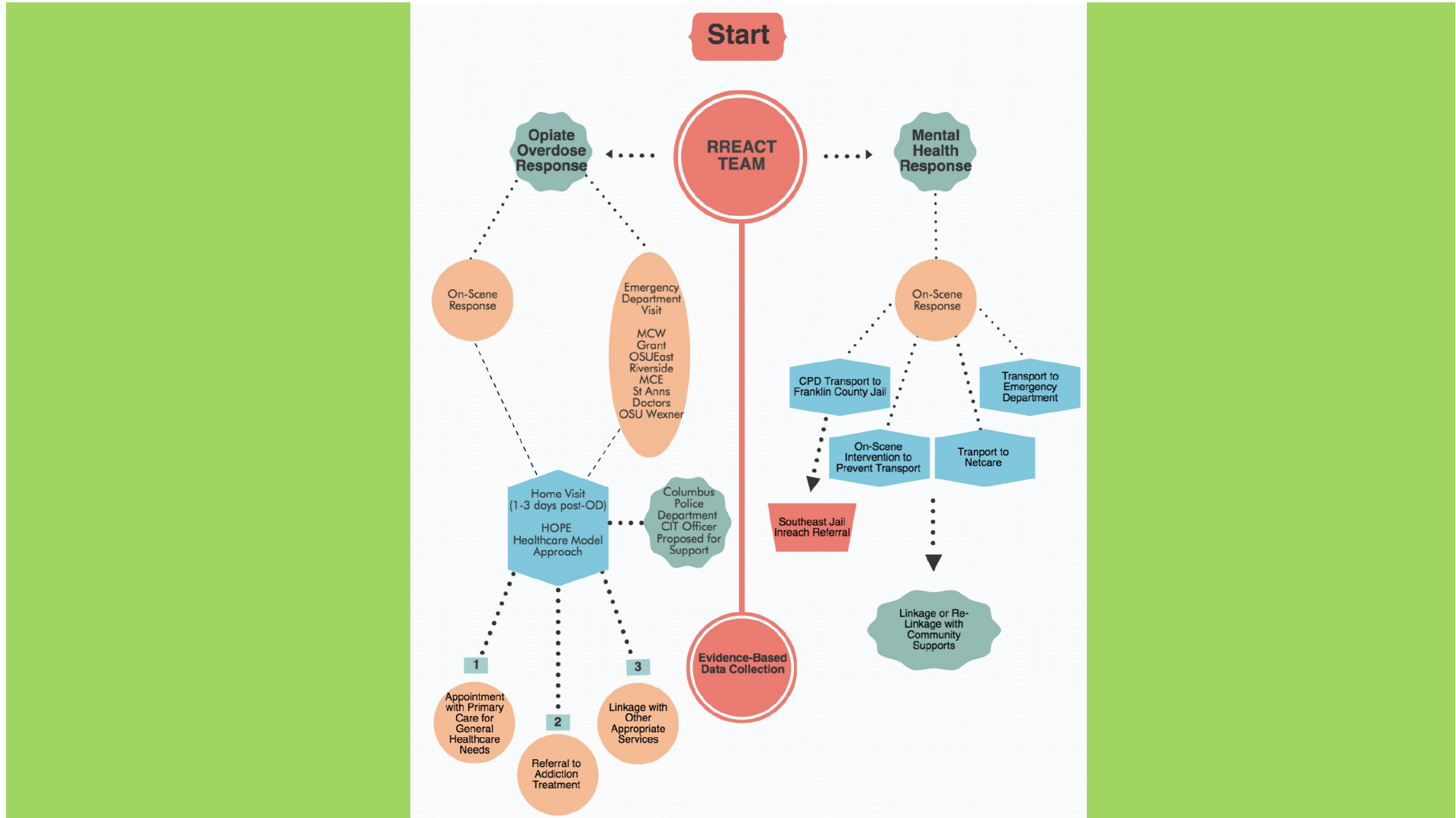
### Rapid Response Emergency Addiction and Crisis Team

12 hours/day-7 days a week

- Mental health nurse
- Social worker
- In addition, there will be an EMS supervisor and paramedic crews from the Columbus Fire Department.

*In response to opiate overdose, the RREACT team will be requested by EMS/Dispatch communication center for response to the receiving ED or on-scene location (if patient refuses transport). This initial outreach effort will be to assess the patient's current use and immediate service needs; facilitate engagement and build rapport; and collect demographic information for future follow-up. Family supports will be provided as needed to include Project Dawn kits, counseling and support groups, and other appropriate referrals.*


*In response to mental health crisis response, the RREACT team may be requested by EMS/Dispatch communication center for on-scene response. The team will provide support to paramedics; assess for lethality if necessary; offer brief crisis intervention; and collect information on current linkage to services and facilitate re-linkage if appropriate.*



# STOPPING THE REVOLVING DOOR OF NARCOTIC ABUSE



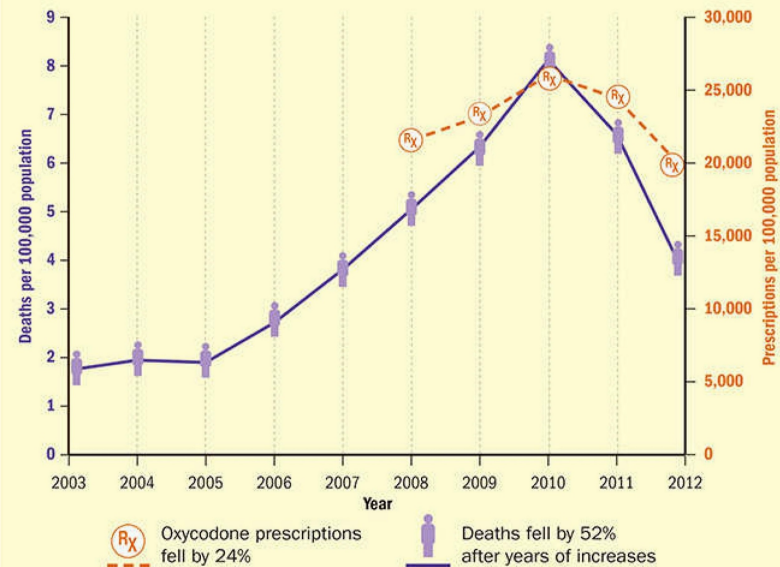
**Kenneth A Scheppke, MD**  
**Medical Director**  
**Palm Beach County Fire Rescue**

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- What is the current system for treating narcotic overdose?
  - Is there something we can do to keep our patients from repeat overdose?
  - How do we prevent the revolving door of narcotic overdose?

# HOW DID WE GET HERE?

- 2010 Florida is the “Pill Mill Capital” of the USA
- 650 Million Oxycontin Tablets shipped to Florida
- Then Law Enforcement efforts, “Pain Clinics” shut, Doctors sent to prison for knowingly being a part of the drug trafficking trade
- 52% Drop in Oxycontin Death rate 2010 -2012

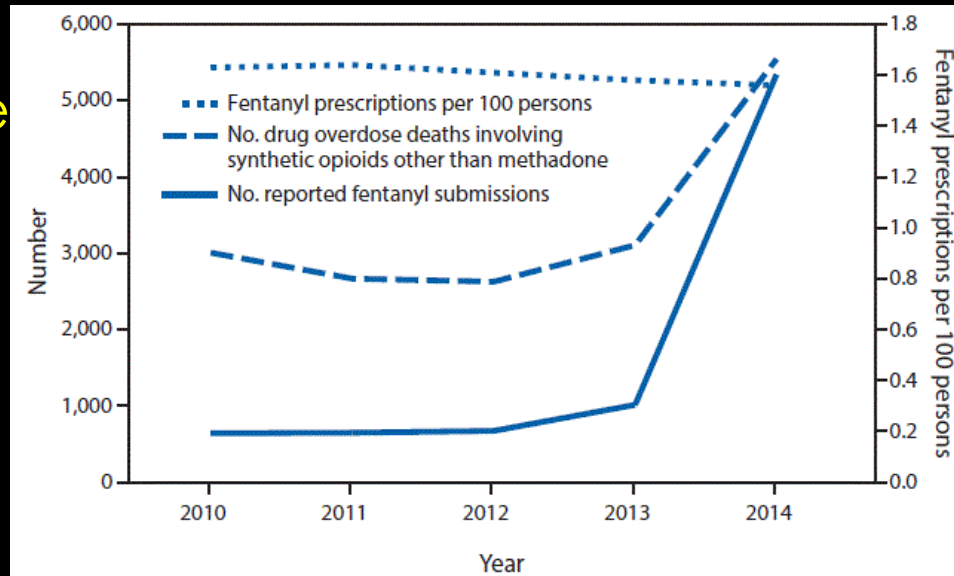
New laws and enforcement reverse trends in oxycodone prescribing and related deaths in Florida



SOURCE: Decline in Drug Overdose Deaths After State Policy Changes – Florida, 2010-2012. Morbidity and Mortality Weekly Report, July 1, 2014

# WITH OXYCONTIN GONE, OUR OLD NEMESIS HEROIN MAKES A COMEBACK, BUT THIS TIME ITS NOT ALONE...

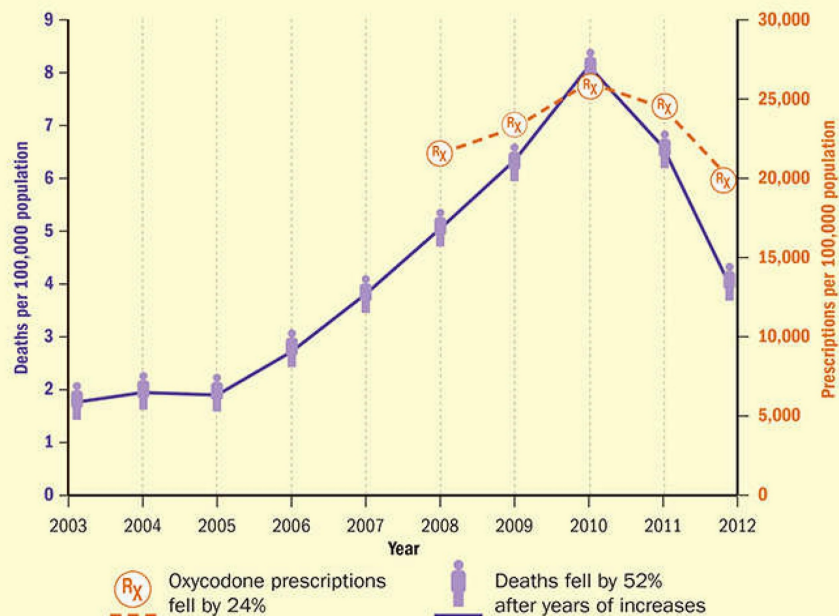
426% increase in Fentanyl related overdose in 2013



# CLOSING THE PILL MILLS IN FLORIDA IS GOOD NEWS,... RIGHT???

1800% Increase in Narcotic Death Rate 2012 – 2015. So far 2016 is double again or 3600% increase in death rate since 2012

New laws and enforcement reverse trends in oxycodone prescribing and related deaths in Florida



SOURCE: Decline in Drug Overdose Deaths After State Policy Changes – Florida, 2010-2012. Morbidity and Mortality Weekly Report, July 1, 2014





# THE NEXT EPIDEMIC...



25 Million Substance Users in USA

4 Million Addicted

PBC Data: 2/3 have Hep C

HIV Rates Rising Rapidly



## HOW DO WE CURRENTLY DEAL WITH OVERDOSE PATIENTS?

- Palm Beach County EMS Spent about \$500,000.00 on Narcan in 2016
- Narcan is over the counter drug now
- Police have Narcan
- Addicts and their friends and family have Narcan
- But the death rate keeps rising.....

# THE REVOLVING DOOR



HOW DO WE CURRENTLY TREAT  
OPIATE ADDICTS?



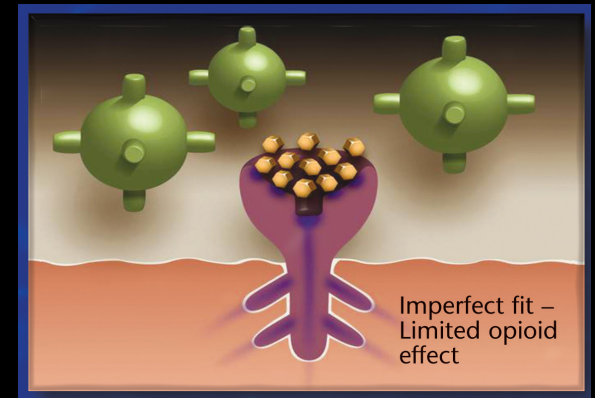
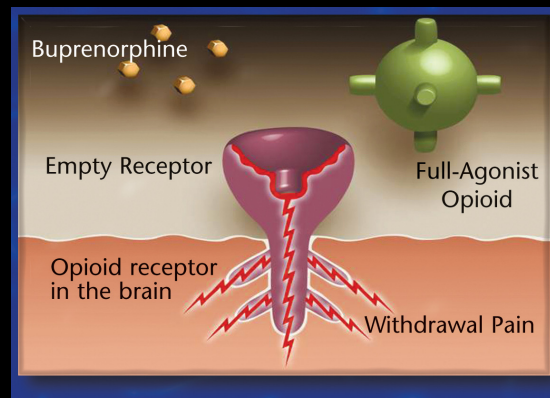
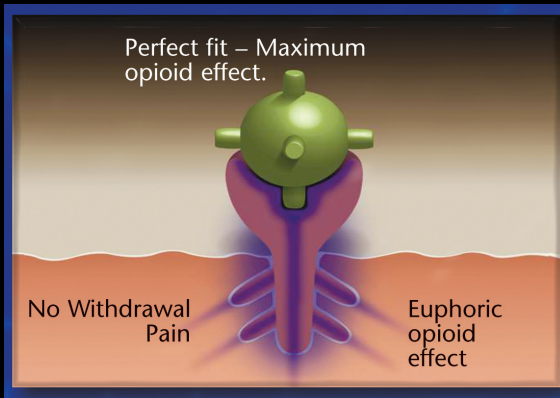
HOW SHOULD WE  
TREAT THEM?

# HOPE ON THE HORIZON

- DATA Passed 2000 Allows for treatment outside of federal drug centers (methadone clinic)
- Buprenorphine approved by DEA for MAT of withdrawal



# MAT MODEL

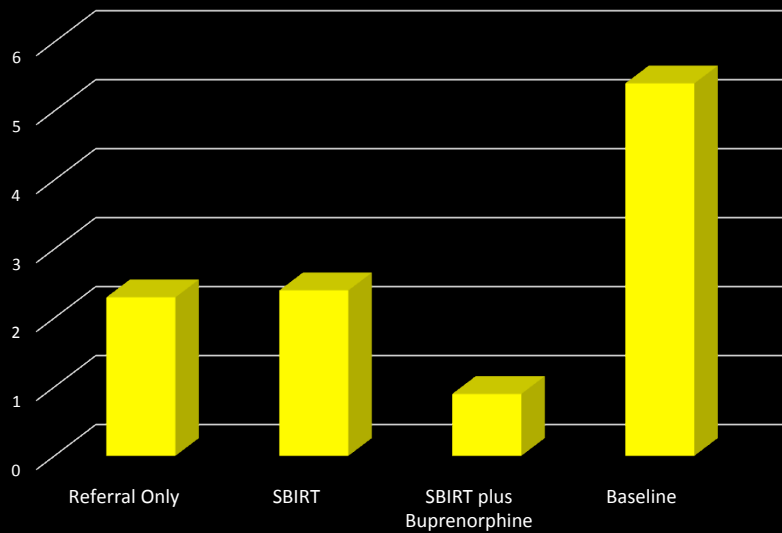


Original Investigation

# 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

Opioid Uses per Week



Inpatient Care



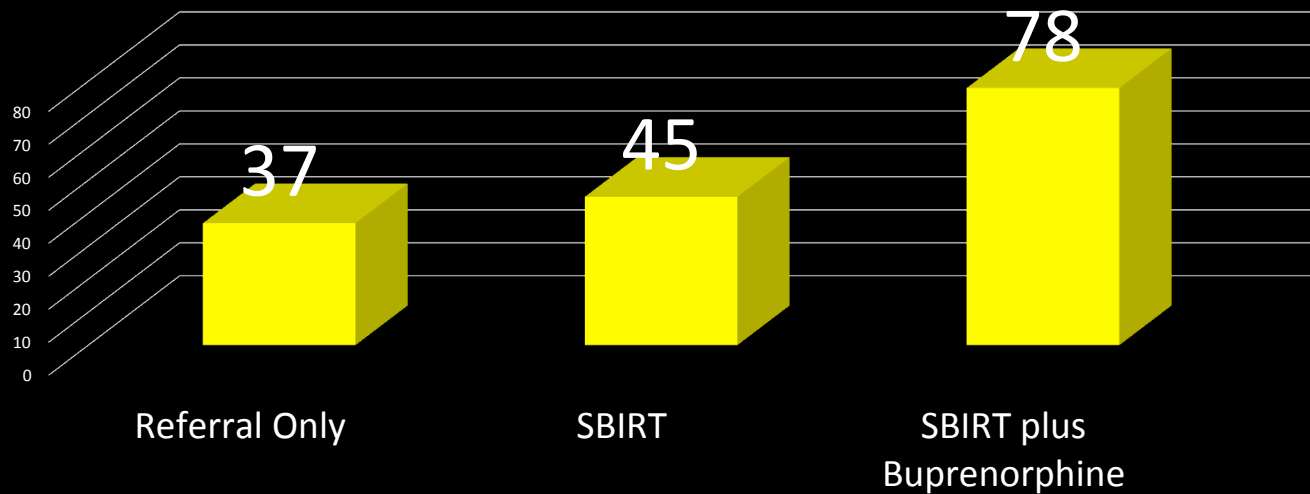
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## 30 Day Addiction Treatment



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## BARRIERS TO CARE

- Lack of insurance/financial resources
- Lack of transportation
- Lack of program space
- Pain/fear of withdrawal
- Lack of positive support structure

# PALM BEACH COUNTY MAT PILOT PROGRAM





## RESOURCES FOR MORE INFORMATION

- <https://www.naabt.org/education/literature.cfm>
- <http://www.samhsa.gov/>



# QUESTIONS?



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